

Department of the Treasury  
Internal Revenue Service

or Section 4947(a)(1) Trust Treated as Private Foundation  
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**2019**

**Open to Public Inspection**

For calendar year **2019** or tax year beginning , **2019**, and ending , **20**

Name of foundation <b>ALFRED P. SLOAN FOUNDATION</b>		<b>A Employer identification number</b> 13-1623877											
Number and street (or P.O. box number if mail is not delivered to street address)	Room/suite	<b>B Telephone number (see instructions)</b>  (212) 649-1649											
City or town, state or province, country, and ZIP or foreign postal code  NEW YORK, NY 10111		<b>C</b> If exemption application is pending, check here. . . . . <input type="checkbox"/> <b>D</b> 1. Foreign organizations, check here. . . . . <input type="checkbox"/> 2. Foreign organizations meeting the 85% test, check here and attach computation . . . . . <input type="checkbox"/> <b>E</b> If private foundation status was terminated under section 507(b)(1)(A), check here . . . . . <input type="checkbox"/> <b>F</b> If the foundation is in a 60-month termination under section 507(b)(1)(B), check here . . . . . <input type="checkbox"/>											
<b>G</b> Check all that apply: <table style="display: inline-table; vertical-align: top;"> <tr><td><input type="checkbox"/></td><td>Initial return</td></tr> <tr><td><input type="checkbox"/></td><td>Final return</td></tr> <tr><td><input type="checkbox"/></td><td>Address change</td></tr> </table> <table style="display: inline-table; vertical-align: top; margin-left: 20px;"> <tr><td><input type="checkbox"/></td><td>Initial return of a former public charity</td></tr> <tr><td><input type="checkbox"/></td><td>Amended return</td></tr> <tr><td><input type="checkbox"/></td><td>Name change</td></tr> </table>			<input type="checkbox"/>	Initial return	<input type="checkbox"/>	Final return	<input type="checkbox"/>	Address change	<input type="checkbox"/>	Initial return of a former public charity	<input type="checkbox"/>	Amended return	<input type="checkbox"/>
<input type="checkbox"/>	Initial return												
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<input type="checkbox"/>	Amended return												
<input type="checkbox"/>	Name change												
<b>H</b> Check type of organization: <input checked="" type="checkbox"/> Section 501(c)(3) exempt private foundation <input type="checkbox"/> Section 4947(a)(1) nonexempt charitable trust <input type="checkbox"/> Other taxable private foundation													
<b>I</b> Fair market value of all assets at end of year (from Part II, col. (c), line 16) ▶ \$ 1,952,076,486.													
<b>J</b> Accounting method: <input type="checkbox"/> Cash <input checked="" type="checkbox"/> Accrual <input type="checkbox"/> Other (specify) _____ (Part I, column (d), must be on cash basis.)													

	(a) Revenue and expenses per books	(b) Net investment income	(c) Adjusted net income	(d) Disbursements for charitable purposes (cash basis only)
<b>Revenue</b>	<b>1</b> Contributions, gifts, grants, etc., received (attach schedule) . . . . .			
	<b>2</b> Check <input checked="" type="checkbox"/> if the foundation is not required to attach Sch. B. . . . .			
	<b>3</b> Interest on savings and temporary cash investments . . . . .		4,856,267.	
	<b>4</b> Dividends and interest from securities . . . . .	13,751,293.	26,407,524.	
	<b>5a</b> Gross rents . . . . .			
	<b>b</b> Net rental income or (loss) . . . . .			
	<b>6a</b> Net gain or (loss) from sale of assets not on line 10 . . . . .	61,554,807.		
	<b>b</b> Gross sales price for all assets on line 6a 103,160,690 . . . . .			
	<b>7</b> Capital gain net income (from Part IV, line 2) . . . . .		51,931,459.	
	<b>8</b> Net short-term capital gain . . . . .			
	<b>9</b> Income modifications . . . . .			
	<b>10a</b> Gross sales less returns and allowances . . . . .			
<b>b</b> Less: Cost of goods sold . . . . .				
<b>c</b> Gross profit or (loss) (attach schedule) . . . . .				
<b>11</b> Other income (attach schedule) <u>ATCH 1</u> . . . . .	1,422,177.	3,963,027.		
<b>12 Total.</b> Add lines 1 through 11 . . . . .	76,728,277.	87,158,277.		
<b>Operating and Administrative Expenses</b>	<b>13</b> Compensation of officers, directors, trustees, etc. . . . .	2,114,175.	465,841.	1,643,629.
	<b>14</b> Other employee salaries and wages . . . . .	7,381,151.	2,282,106.	5,310,558.
	<b>15</b> Pension plans, employee benefits . . . . .	2,440,445.	554,846.	1,655,296.
	<b>16a</b> Legal fees (attach schedule) <u>ATCH 2</u> . . . . .	249,333.	127,464.	89,851.
	<b>b</b> Accounting fees (attach schedule) <u>ATCH 3</u> . . . . .	83,928.		34,228.
	<b>c</b> Other professional fees (attach schedule) <u>[4]</u> . . . . .	4,172,494.	3,836,983.	296,753.
	<b>17</b> Interest . . . . .			
	<b>18</b> Taxes (attach schedule) (see instructions) <u>[5]</u> . . . . .	2,450,000.	679,556.	
	<b>19</b> Depreciation (attach schedule) and depletion . . . . .			
	<b>20</b> Occupancy . . . . .	1,983,681.	280,549.	1,700,298.
	<b>21</b> Travel, conferences, and meetings . . . . .	636,221.	100,520.	535,701.
	<b>22</b> Printing and publications . . . . .	69,862.	114.	69,748.
	<b>23</b> Other expenses (attach schedule) <u>ATCH 6</u> . . . . .	1,780,201.	17,723,106.	1,610,746.
	<b>24 Total operating and administrative expenses.</b> Add lines 13 through 23. . . . .	23,361,491.	26,051,085.	12,946,808.
	<b>25</b> Contributions, gifts, grants paid . . . . .	97,309,321.		82,731,034.
<b>26 Total expenses and disbursements.</b> Add lines 24 and 25 . . . . .	120,670,812.	26,051,085.	0.	
<b>27</b> Subtract line 26 from line 12:				
<b>a</b> Excess of revenue over expenses and disbursements . . . . .	-43,942,535.			
<b>b</b> Net investment income (if negative, enter -0-) . . . . .		61,107,192.		
<b>c</b> Adjusted net income (if negative, enter -0-) . . . . .				

Part II Balance Sheets		Attached schedules and amounts in the description column should be for end-of-year amounts only. (See instructions.)	Beginning of year	End of year	
			(a) Book Value	(b) Book Value	(c) Fair Market Value
Assets	1	Cash - non-interest-bearing . . . . .	1,554,235.	1,302,905.	1,302,905.
	2	Savings and temporary cash investments . . . . .			
	3	Accounts receivable ▶ 24,263,188.			
		Less: allowance for doubtful accounts ▶	24,232,502.	24,263,188.	24,263,188.
	4	Pledges receivable ▶			
		Less: allowance for doubtful accounts ▶			
	5	Grants receivable . . . . .			
	6	Receivables due from officers, directors, trustees, and other disqualified persons (attach schedule) (see instructions) . . . .			
	7	Other notes and loans receivable (attach schedule) ▶			
		Less: allowance for doubtful accounts ▶			
	8	Inventories for sale or use . . . . .			
	9	Prepaid expenses and deferred charges . . . . .			
	10a	Investments - U.S. and state government obligations (attach schedule) [ 7 ]	19,706,744.	36,573,118.	36,573,118.
	b	Investments - corporate stock (attach schedule) ATCH 8	46,427,936.	63,261,467.	63,261,467.
	c	Investments - corporate bonds (attach schedule) ATCH 9	176,840,197.	245,743,499.	245,743,499.
	11	Investments - land, buildings, and equipment: basis ▶ Less: accumulated depreciation (attach schedule) ▶			
12	Investments - mortgage loans . . . . .				
13	Investments - other (attach schedule) . . . . . ATCH 10	1,485,523,029.	1,580,932,309.	1,580,932,309.	
14	Land, buildings, and equipment: basis ▶ Less: accumulated depreciation (attach schedule) ▶				
15	Other assets (describe ▶ )				
16	<b>Total assets</b> (to be completed by all filers - see the instructions. Also, see page 1, item I) . . . . .	1,754,284,643.	1,952,076,486.	1,952,076,486.	
Liabilities	17	Accounts payable and accrued expenses . . . . .	18,247,481.	21,553,387.	
	18	Grants payable . . . . .	71,847,209.	86,363,133.	
	19	Deferred revenue . . . . .			
	20	Loans from officers, directors, trustees, and other disqualified persons . .			
	21	Mortgages and other notes payable (attach schedule) . . . . .			
	22	Other liabilities (describe ▶ ATCH 11 )	1,391,126.	1,156,561.	
23	<b>Total liabilities</b> (add lines 17 through 22) . . . . .	91,485,816.	109,073,081.		
Net Assets or Fund Balances		<b>Foundations that follow FASB ASC 958, check here</b> ▶ <input checked="" type="checkbox"/> <b>and complete lines 24, 25, 29, and 30.</b>			
	24	Net assets without donor restrictions . . . . .	1,662,798,827.	1,843,003,405.	
	25	Net assets with donor restrictions . . . . .			
		<b>Foundations that do not follow FASB ASC 958, check here</b> ▶ <input type="checkbox"/> <b>and complete lines 26 through 30.</b>			
	26	Capital stock, trust principal, or current funds . . . . .			
	27	Paid-in or capital surplus, or land, bldg., and equipment fund . . . . .			
	28	Retained earnings, accumulated income, endowment, or other funds . .			
29	<b>Total net assets or fund balances</b> (see instructions) . . . . .	1,662,798,827.	1,843,003,405.		
30	<b>Total liabilities and net assets/fund balances</b> (see instructions) . . . . .	1,754,284,643.	1,952,076,486.		

Part III Analysis of Changes in Net Assets or Fund Balances		
1	Total net assets or fund balances at beginning of year - Part II, column (a), line 29 (must agree with end-of-year figure reported on prior year's return) . . . . .	1 1,662,798,827.
2	Enter amount from Part I, line 27a . . . . .	2 -43,942,535.
3	Other increases not included in line 2 (itemize) ▶ ATCH 12	3 224,866,877.
4	Add lines 1, 2, and 3 . . . . .	4 1,843,723,169.
5	Decreases not included in line 2 (itemize) ▶ ATCH 13	5 719,764.
6	Total net assets or fund balances at end of year (line 4 minus line 5) - Part II, column (b), line 29 . . . . .	6 1,843,003,405.

**Part IV Capital Gains and Losses for Tax on Investment Income**

(a) List and describe the kind(s) of property sold (for example, real estate, 2-story brick warehouse; or common stock, 200 shs. MLC Co.)				(b) How acquired P - Purchase D - Donation	(c) Date acquired (mo., day, yr.)	(d) Date sold (mo., day, yr.)
<b>1 a</b> SEE PART IV SCHEDULE						
<b>b</b>						
<b>c</b>						
<b>d</b>						
<b>e</b>						
(e) Gross sales price	(f) Depreciation allowed (or allowable)	(g) Cost or other basis plus expense of sale	(h) Gain or (loss) ((e) plus (f) minus (g))			
<b>a</b>						
<b>b</b>						
<b>c</b>						
<b>d</b>						
<b>e</b>						
Complete only for assets showing gain in column (h) and owned by the foundation on 12/31/69.						
(i) FMV as of 12/31/69	(j) Adjusted basis as of 12/31/69	(k) Excess of col. (i) over col. (j), if any	(l) Gains (Col. (h) gain minus col. (k), but not less than -0-) or Losses (from col. (h))			
<b>a</b>						
<b>b</b>						
<b>c</b>						
<b>d</b>						
<b>e</b>						
<b>2</b>	Capital gain net income or (net capital loss) $\left\{ \begin{array}{l} \text{If gain, also enter in Part I, line 7} \\ \text{If (loss), enter -0- in Part I, line 7} \end{array} \right\}$			<b>2</b>	51,931,459.	
<b>3</b>	Net short-term capital gain or (loss) as defined in sections 1222(5) and (6): If gain, also enter in Part I, line 8, column (c). See instructions. If (loss), enter -0- in Part I, line 8 . . . . .			<b>3</b>	0.	

**Part V Qualification Under Section 4940(e) for Reduced Tax on Net Investment Income**

(For optional use by domestic private foundations subject to the section 4940(a) tax on net investment income.)

If section 4940(d)(2) applies, leave this part blank.

Was the foundation liable for the section 4942 tax on the distributable amount of any year in the base period?  Yes  No  
If "Yes," the foundation doesn't qualify under section 4940(e). Do not complete this part.

**1** Enter the appropriate amount in each column for each year; see the instructions before making any entries.

(a) Base period years Calendar year (or tax year beginning in)	(b) Adjusted qualifying distributions	(c) Net value of noncharitable-use assets	(d) Distribution ratio (col. (b) divided by col. (c))
2018	92,596,714.	1,854,736,044.	0.049924
2017	95,502,213.	1,812,003,176.	0.052705
2016	85,671,935.	1,750,115,826.	0.048952
2015	89,616,763.	1,840,922,500.	0.048680
2014	94,378,629.	1,884,643,019.	0.050078
<b>2</b>	<b>Total</b> of line 1, column (d) . . . . .		<b>2</b> 0.250339
<b>3</b>	Average distribution ratio for the 5-year base period - divide the total on line 2 by 5.0, or by the number of years the foundation has been in existence if less than 5 years . . . . .		<b>3</b> 0.050068
<b>4</b>	Enter the net value of noncharitable-use assets for 2019 from Part X, line 5 . . . . .		<b>4</b> 1,845,712,721.
<b>5</b>	Multiply line 4 by line 3. . . . .		<b>5</b> 92,411,145.
<b>6</b>	Enter 1% of net investment income (1% of Part I, line 27b). . . . .		<b>6</b> 611,072.
<b>7</b>	Add lines 5 and 6. . . . .		<b>7</b> 93,022,217.
<b>8</b>	Enter qualifying distributions from Part XII, line 4. . . . . If line 8 is equal to or greater than line 7, check the box in Part VI, line 1b, and complete that part using a 1% tax rate. See the Part VI instructions.		<b>8</b> 95,677,842.

Part VI Excise Tax Based on Investment Income (Section 4940(a), 4940(b), 4940(e), or 4948 - see instructions)

Table with 11 rows for excise tax calculations. Includes fields for exempt foundations, domestic foundations, tax under section 511, add lines 1 and 2, subtitle A tax, tax based on investment income, credits/payments, total credits, penalty, tax due, overpayment, and amount of line 10 to be credited to 2020 estimated tax.

Part VII-A Statements Regarding Activities

Table with 10 rows for statements regarding activities. Includes questions about influencing legislation, political purposes, Form 1120-POL filing, tax on political expenditures, reimbursement, IRS reporting, unrelated business gross income, liquidation, requirements of section 508(e), assets, states reported to, Form 990-PF distribution, private operating foundation status, and substantial contributors.

Part VII-A Statements Regarding Activities (continued)

Table with 3 columns: Question, Yes, No. Rows 11-16 containing questions about controlled entities, distributions, public inspection requirements, and foreign interests.

Part VII-B Statements Regarding Activities for Which Form 4720 May Be Required

File Form 4720 if any item is checked in the "Yes" column, unless an exception applies.

Table with 3 columns: Question, Yes, No. Rows 1a-4b containing questions about disqualifying acts, taxes on failure to distribute income, and business enterprise interests.

**Part VII-B Statements Regarding Activities for Which Form 4720 May Be Required (continued)**

<b>5a</b>	During the year, did the foundation pay or incur any amount to:		<b>Yes</b>	<b>No</b>
(1)	Carry on propaganda, or otherwise attempt to influence legislation (section 4945(e))?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
(2)	Influence the outcome of any specific public election (see section 4955); or to carry on, directly or indirectly, any voter registration drive?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
(3)	Provide a grant to an individual for travel, study, or other similar purposes?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
(4)	Provide a grant to an organization other than a charitable, etc., organization described in section 4945(d)(4)(A)? See instructions	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
(5)	Provide for any purpose other than religious, charitable, scientific, literary, or educational purposes, or for the prevention of cruelty to children or animals?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
<b>b</b>	If any answer is "Yes" to 5a(1)-(5), did any of the transactions fail to qualify under the exceptions described in Regulations section 53.4945 or in a current notice regarding disaster assistance? See instructions.		<b>5b</b>	X
	Organizations relying on a current notice regarding disaster assistance, check here	<input type="checkbox"/>		
<b>c</b>	If the answer is "Yes" to question 5a(4), does the foundation claim exemption from the tax because it maintained expenditure responsibility for the grant?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
	If "Yes," attach the statement required by Regulations section 53.4945-5(d). ATCH 15			
<b>6a</b>	Did the foundation, during the year, receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
<b>b</b>	Did the foundation, during the year, pay premiums, directly or indirectly, on a personal benefit contract? If "Yes" to 6b, file Form 8870.		<b>6b</b>	X
<b>7a</b>	At any time during the tax year, was the foundation a party to a prohibited tax shelter transaction?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
<b>b</b>	If "Yes," did the foundation receive any proceeds or have any net income attributable to the transaction?		<b>7b</b>	
<b>8</b>	Is the foundation subject to the section 4960 tax on payment(s) of more than \$1,000,000 in remuneration or excess parachute payment(s) during the year?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No

**Part VIII Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors**

**1 List all officers, directors, trustees, and foundation managers and their compensation. See instructions.**

(a) Name and address	(b) Title, and average hours per week devoted to position	(c) Compensation (if not paid, enter -0-)	(d) Contributions to employee benefit plans and deferred compensation	(e) Expense account, other allowances
ATCH 16		2,114,175.	154,564.	0.

**2 Compensation of five highest-paid employees (other than those included on line 1 - see instructions). If none, enter "NONE."**

(a) Name and address of each employee paid more than \$50,000	(b) Title, and average hours per week devoted to position	(c) Compensation	(d) Contributions to employee benefit plans and deferred compensation	(e) Expense account, other allowances
ATCH 17		3,597,155.	449,099.	0.

**Total number of other employees paid over \$50,000.** 26

**Part VIII Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors** (continued)

**3 Five highest-paid independent contractors for professional services. See instructions. If none, enter "NONE."**

(a) Name and address of each person paid more than \$50,000	(b) Type of service	(c) Compensation
ATCH 18		3,087,709.
<b>Total number of others receiving over \$50,000 for professional services</b> . . . . .		<b>11</b>

**Part IX-A Summary of Direct Charitable Activities**

List the foundation's four largest direct charitable activities during the tax year. Include relevant statistical information such as the number of organizations and other beneficiaries served, conferences convened, research papers produced, etc.

	Expenses
<b>1</b> PUBLIC DISSEMINATION AND TECHNICAL ASSISTANCE OF AWARDS SEE GENERAL EXPLANATION FOR ADDITIONAL INFORMATION	243,704.
<b>2</b> SUPPORT PUBLIC CHARITABLE BOARD AND COMMITTEE SERVICE SEE GENERAL EXPLANATION FOR ADDITIONAL INFORMATION	523,748.
<b>3</b> EDUCATIONAL CONFERENCES AND SEMINARS SEE GENERAL EXPLANATION FOR ADDITIONAL INFORMATION	200,711.
<b>4</b>	

**Part IX-B Summary of Program-Related Investments** (see instructions)

Describe the two largest program-related investments made by the foundation during the tax year on lines 1 and 2.

	Amount
<b>1</b> NONE	
<b>2</b>	
All other program-related investments. See instructions.	
<b>3</b> NONE	
<b>Total.</b> Add lines 1 through 3 . . . . .	

**Part X Minimum Investment Return** (All domestic foundations must complete this part. Foreign foundations, see instructions.)

<b>1</b>	Fair market value of assets not used (or held for use) directly in carrying out charitable, etc., purposes:		
<b>a</b>	Average monthly fair market value of securities . . . . .	<b>1a</b>	1,870,821,475.
<b>b</b>	Average of monthly cash balances . . . . .	<b>1b</b>	2,998,546.
<b>c</b>	Fair market value of all other assets (see instructions). . . . .	<b>1c</b>	
<b>d</b>	<b>Total</b> (add lines 1a, b, and c) . . . . .	<b>1d</b>	1,873,820,021.
<b>e</b>	Reduction claimed for blockage or other factors reported on lines 1a and 1c (attach detailed explanation) . . . . .	<b>1e</b>	
<b>2</b>	Acquisition indebtedness applicable to line 1 assets . . . . .	<b>2</b>	
<b>3</b>	Subtract line 2 from line 1d. . . . .	<b>3</b>	1,873,820,021.
<b>4</b>	Cash deemed held for charitable activities. Enter 1 1/2% of line 3 (for greater amount, see instructions). . . . .	<b>4</b>	28,107,300.
<b>5</b>	<b>Net value of noncharitable-use assets.</b> Subtract line 4 from line 3. Enter here and on Part V, line 4	<b>5</b>	1,845,712,721.
<b>6</b>	<b>Minimum investment return.</b> Enter 5% of line 5 . . . . .	<b>6</b>	92,285,636.

**Part XI Distributable Amount** (see instructions) (Section 4942(j)(3) and (j)(5) private operating foundations and certain foreign organizations, check here  and do not complete this part.)

<b>1</b>	Minimum investment return from Part X, line 6 . . . . .	<b>1</b>	92,285,636.
<b>2a</b>	Tax on investment income for 2019 from Part VI, line 5 . . . . .	<b>2a</b>	611,072.
<b>b</b>	Income tax for 2019. (This does not include the tax from Part VI.) . . . . .	<b>2b</b>	
<b>c</b>	Add lines 2a and 2b. . . . .	<b>2c</b>	611,072.
<b>3</b>	Distributable amount before adjustments. Subtract line 2c from line 1. . . . .	<b>3</b>	91,674,564.
<b>4</b>	Recoveries of amounts treated as qualifying distributions. . . . .	<b>4</b>	1,421,044.
<b>5</b>	Add lines 3 and 4 . . . . .	<b>5</b>	93,095,608.
<b>6</b>	Deduction from distributable amount (see instructions). . . . .	<b>6</b>	
<b>7</b>	<b>Distributable amount</b> as adjusted. Subtract line 6 from line 5. Enter here and on Part XIII, line 1. . . . .	<b>7</b>	93,095,608.

**Part XII Qualifying Distributions** (see instructions)

<b>1</b>	Amounts paid (including administrative expenses) to accomplish charitable, etc., purposes:		
<b>a</b>	Expenses, contributions, gifts, etc. - total from Part I, column (d), line 26. . . . .	<b>1a</b>	95,677,842.
<b>b</b>	Program-related investments - total from Part IX-B. . . . .	<b>1b</b>	
<b>2</b>	Amounts paid to acquire assets used (or held for use) directly in carrying out charitable, etc., purposes. . . . .	<b>2</b>	
<b>3</b>	Amounts set aside for specific charitable projects that satisfy the:		
<b>a</b>	Suitability test (prior IRS approval required) . . . . .	<b>3a</b>	
<b>b</b>	Cash distribution test (attach the required schedule) . . . . .	<b>3b</b>	
<b>4</b>	<b>Qualifying distributions.</b> Add lines 1a through 3b. Enter here and on Part V, line 8; and Part XIII, line 4	<b>4</b>	95,677,842.
<b>5</b>	Foundations that qualify under section 4940(e) for the reduced rate of tax on net investment income. Enter 1% of Part I, line 27b. See instructions. . . . .	<b>5</b>	611,072.
<b>6</b>	<b>Adjusted qualifying distributions.</b> Subtract line 5 from line 4 . . . . .	<b>6</b>	95,066,770.

**Note:** The amount on line 6 will be used in Part V, column (b), in subsequent years when calculating whether the foundation qualifies for the section 4940(e) reduction of tax in those years.



**Part XIII Undistributed Income** (see instructions)

	(a) Corpus	(b) Years prior to 2018	(c) 2018	(d) 2019
1 Distributable amount for 2019 from Part XI, line 7 . . . . .				93,095,608.
2 Undistributed income, if any, as of the end of 2019:				
a Enter amount for 2018 only. . . . .			21,826,167.	
b Total for prior years: 20 <u>17</u> , 20 <u>16</u> , 20 <u>15</u> . . . . .				
3 Excess distributions carryover, if any, to 2019:				
a From 2014 . . . . .				
b From 2015 . . . . .				
c From 2016 . . . . .				
d From 2017 . . . . .				
e From 2018 . . . . .				
f Total of lines 3a through e . . . . .	0.			
4 Qualifying distributions for 2019 from Part XII, line 4: ▶ \$ <u>95,677,842.</u>				
a Applied to 2018, but not more than line 2a . . . . .			21,826,167.	
b Applied to undistributed income of prior years (Election required - see instructions). . . . .				
c Treated as distributions out of corpus (Election required - see instructions) . . . . .				
d Applied to 2019 distributable amount. . . . .				73,851,675.
e Remaining amount distributed out of corpus. . . . .				
5 Excess distributions carryover applied to 2019 (If an amount appears in column (d), the same amount must be shown in column (a).) . . . . .				
6 Enter the net total of each column as indicated below:				
a Corpus. Add lines 3f, 4c, and 4e. Subtract line 5 . . . . .				
b Prior years' undistributed income. Subtract line 4b from line 2b. . . . .				
c Enter the amount of prior years' undistributed income for which a notice of deficiency has been issued, or on which the section 4942(a) tax has been previously assessed . . . . .				
d Subtract line 6c from line 6b. Taxable amount - see instructions . . . . .				
e Undistributed income for 2018. Subtract line 4a from line 2a. Taxable amount - see instructions . . . . .				
f Undistributed income for 2019. Subtract lines 4d and 5 from line 1. This amount must be distributed in 2020. . . . .				19,243,933.
7 Amounts treated as distributions out of corpus to satisfy requirements imposed by section 170(b)(1)(F) or 4942(g)(3) (Election may be required - see instructions) . . . . .				
8 Excess distributions carryover from 2014 not applied on line 5 or line 7 (see instructions) . . . . .				
9 Excess distributions carryover to 2020. Subtract lines 7 and 8 from line 6a . . . . .	0.			
10 Analysis of line 9:				
a Excess from 2015 . . . . .				
b Excess from 2016 . . . . .				
c Excess from 2017 . . . . .				
d Excess from 2018 . . . . .				
e Excess from 2019 . . . . .				

Part XIV Private Operating Foundations (see instructions and Part VII-A, question 9)

NOT APPLICABLE

1 a If the foundation has received a ruling or determination letter that it is a private operating foundation, and the ruling is effective for 2019, enter the date of the ruling . . . . .

b Check box to indicate whether the foundation is a private operating foundation described in section 4942(j)(3) or 4942(j)(5)  4942(j)(3) or  4942(j)(5)

2 a Enter the lesser of the adjusted net income from Part I or the minimum investment return from Part X for each year listed . . . . .

	Tax year				(e) Total
	(a) 2019	(b) 2018	(c) 2017	(d) 2016	
b 85% of line 2a . . . . .					
c Qualifying distributions from Part XII, line 4, for each year listed . . . . .					
d Amounts included in line 2c not used directly for active conduct of exempt activities . . . . .					
e Qualifying distributions made directly for active conduct of exempt activities. Subtract line 2d from line 2c . . . . .					
3 Complete 3a, b, or c for the alternative test relied upon: . . . . .					
a "Assets" alternative test - enter:					
(1) Value of all assets . . . . .					
(2) Value of assets qualifying under section 4942(j)(3)(B)(i) . . . . .					
b "Endowment" alternative test - enter 2/3 of minimum investment return shown in Part X, line 6 for each year listed . . . . .					
c "Support" alternative test - enter:					
(1) Total support other than gross investment income (interest, dividends, rents, payments on securities loans (section 512(a)(5)), or royalties) . . . . .					
(2) Support from general public and 5 or more exempt organizations as provided in section 4942(j)(3)(B)(iii) . . . . .					
(3) Largest amount of support from an exempt organization . . . . .					
(4) Gross investment income . . . . .					

Part XV Supplementary Information (Complete this part only if the foundation had \$5,000 or more in assets at any time during the year - see instructions.)

1 Information Regarding Foundation Managers:

a List any managers of the foundation who have contributed more than 2% of the total contributions received by the foundation before the close of any tax year (but only if they have contributed more than \$5,000). (See section 507(d)(2).)

N/A

b List any managers of the foundation who own 10% or more of the stock of a corporation (or an equally large portion of the ownership of a partnership or other entity) of which the foundation has a 10% or greater interest.

N/A

2 Information Regarding Contribution, Grant, Gift, Loan, Scholarship, etc., Programs:

Check here  if the foundation only makes contributions to preselected charitable organizations and does not accept unsolicited requests for funds. If the foundation makes gifts, grants, etc., to individuals or organizations under other conditions, complete items 2a, b, c, and d. See instructions.

a The name, address, and telephone number or email address of the person to whom applications should be addressed:

ATCH 19

b The form in which applications should be submitted and information and materials they should include:

c Any submission deadlines:

d Any restrictions or limitations on awards, such as by geographical areas, charitable fields, kinds of institutions, or other factors:

**Part XV** Supplementary Information *(continued)*

**3 Grants and Contributions Paid During the Year or Approved for Future Payment**

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
<p><b>a</b> <i>Paid during the year</i></p> <p>ATCH 20</p>				
<b>Total</b> .....				<b>▶ 3a</b> 82,731,034.
<p><b>b</b> <i>Approved for future payment</i></p> <p>ATCH 21</p>				
<b>Total</b> .....				<b>▶ 3b</b> 76,913,133.

Part XVI-A Analysis of Income-Producing Activities

Enter gross amounts unless otherwise indicated.

Table with 5 main columns: (a) Business code, (b) Amount, (c) Exclusion code, (d) Amount, (e) Related or exempt function income. Rows include categories like Program service revenue, Membership dues, Interest on savings, Dividends, Net rental income, etc.

Part XVI-B Relationship of Activities to the Accomplishment of Exempt Purposes

Table with 2 columns: Line No., Explain below how each activity for which income is reported in column (e) of Part XVI-A contributed importantly to the accomplishment of the foundation's exempt purposes (other than by providing funds for such purposes).

Part XVII Information Regarding Transfers to and Transactions and Relationships With Noncharitable Exempt Organizations

- 1 Did the organization directly or indirectly engage in any of the following with any other organization described in section 501(c) (other than section 501(c)(3) organizations) or in section 527, relating to political organizations?
a Transfers from the reporting foundation to a noncharitable exempt organization of:
(1) Cash
(2) Other assets
b Other transactions:
(1) Sales of assets to a noncharitable exempt organization
(2) Purchases of assets from a noncharitable exempt organization
(3) Rental of facilities, equipment, or other assets
(4) Reimbursement arrangements
(5) Loans or loan guarantees
(6) Performance of services or membership or fundraising solicitations
c Sharing of facilities, equipment, mailing lists, other assets, or paid employees
d If the answer to any of the above is "Yes," complete the following schedule.

Table with 4 columns: (a) Line no., (b) Amount involved, (c) Name of noncharitable exempt organization, (d) Description of transfers, transactions, and sharing arrangements. Row 1A(1) shows 15,000 for ASS. FOR ENERGY ECO. related to PHD DAY EVENT FOR GRAD STUDENT.

2a Is the foundation directly or indirectly affiliated with, or related to, one or more tax-exempt organizations described in section 501(c) (other than section 501(c)(3)) or in section 527? Yes No

b If "Yes," complete the following schedule.

Table with 3 columns: (a) Name of organization, (b) Type of organization, (c) Description of relationship.

Under penalties of perjury, I declare that I have examined this return, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete. Declaration of preparer (other than taxpayer) is based on all information of which preparer has any knowledge.

Sign Here

Signature of officer or trustee, Date, Title

May the IRS discuss this return with the preparer shown below? See instructions. Yes No

Paid Preparer Use Only

Print/Type preparer's name: DANIEL ROMANO; Preparer's signature; Date: 11/13/2020; Firm's name: GRANT THORNTON LLP; Firm's address: 757 THIRD AVENUE, 3RD FLOOR NEW YORK, NY; Firm's EIN: 36-6055558; Phone no.: 212-599-0100

**FORM 990-PF - PART IV  
CAPITAL GAINS AND LOSSES FOR TAX ON INVESTMENT INCOME**

Kind of Property		Description				P or D	Date acquired	Date sold
Gross sale price less expenses of sale	Depreciation allowed/ allowable	Cost or other basis	FMV as of 12/31/69	Adj. basis as of 12/31/69	Excess of FMV over adj basis		Gain or (loss)	
		BROADREACH REALTY II PROPERTY TYPE: SECURITIES				P	VAR	VAR
							-880,713.	
		PRIMARY CASH PROPERTY TYPE: SECURITIES				P	VAR	VAR
							21,961.	
		PZENA INVESTMENT PROPERTY TYPE: SECURITIES				P	VAR	VAR
							33,817.	
		DOUBLELINE CAPITAL PROPERTY TYPE: SECURITIES				P	VAR	VAR
							-901,930.	
		INTERIM EQUITY EXP PROPERTY TYPE: SECURITIES				P	VAR	VAR
							1,158,061.	
		RGM CAPITAL PROPERTY TYPE: SECURITIES				P	VAR	VAR
							5,620,358.	
		NOKOMIS CAPITAL PROPERTY TYPE: SECURITIES				P	VAR	VAR
							1,923.	
		RAGING CAPITAL PROPERTY TYPE: SECURITIES				P	VAR	VAR
							-879.	
		ECHO STREET LP PROPERTY TYPE: SECURITIES				P	VAR	VAR
							1,911,693.	
		VARDEN PACIFIC PROPERTY TYPE: SECURITIES				P	VAR	VAR
							5,310,370.	
		TALAMOD ASSET MGMT PROPERTY TYPE: SECURITIES				P	VAR	VAR
							22,786.	
		BRACEBRIDGE CAP PROPERTY TYPE: SECURITIES				P	VAR	VAR
							839,043.	

**FORM 990-PF - PART IV  
CAPITAL GAINS AND LOSSES FOR TAX ON INVESTMENT INCOME**

Kind of Property		Description				P or D	Date acquired	Date sold
Gross sale price less expenses of sale	Depreciation allowed/ allowable	Cost or other basis	FMV as of 12/31/69	Adj. basis as of 12/31/69	Excess of FMV over adj basis		Gain or (loss)	
		STONE MILLINER PROPERTY TYPE: SECURITIES				P	VAR -676,793.	VAR
		CAMOX FUND PROPERTY TYPE: SECURITIES				P	VAR -7871499.	VAR
		GLENHILL CAPITAL PROPERTY TYPE: SECURITIES				P	VAR -42,093.	VAR
		GRAHAM CAPITAL PROPERTY TYPE: SECURITIES				P	VAR -4685713.	VAR
		MAVERICK PROPERTY TYPE: SECURITIES				P	VAR 13277776.	VAR
		GOVERNORS LANE PROPERTY TYPE: SECURITIES				P	VAR 992,692.	VAR
		TPG PUBLIC EQUITY PROPERTY TYPE: SECURITIES				P	VAR 1,950,991.	VAR
		OWL ROCK PROPERTY TYPE: SECURITIES				P	VAR 158,711.	VAR
		PARAMETRIC FIXED INC PROPERTY TYPE: SECURITIES				P	VAR 204,308.	VAR
		AKO GLOBAL FUND PROPERTY TYPE: SECURITIES				P	VAR 2,071,113.	VAR
		EVERETT OPPTS FUND PROPERTY TYPE: SECURITIES				P	VAR -1844042.	VAR
		L CATTERTON EUROPE PROPERTY TYPE: SECURITIES				P	VAR -1,157.	VAR

**FORM 990-PF - PART IV  
CAPITAL GAINS AND LOSSES FOR TAX ON INVESTMENT INCOME**

Kind of Property		Description				P or D	Date acquired	Date sold	
Gross sale price less expenses of sale	Depreciation allowed/ allowable	Cost or other basis	FMV as of 12/31/69	Adj. basis as of 12/31/69	Excess of FMV over adj basis		Gain or (loss)		
		ACWI INTERIM EQUITY PROPERTY TYPE: SECURITIES				P	VAR -538,454.	VAR	
		AKO GLBL LONG ONLY PROPERTY TYPE: SECURITIES				P	VAR 932,314.	VAR	
		ALBACORE PARTNERS PROPERTY TYPE: SECURITIES				P	VAR 91,483.	VAR	
		CLIFTON GROUP PROPERTY TYPE: SECURITIES				P	VAR 1,292,374.	VAR	
		KEYWISE CHINA PROPERTY TYPE: SECURITIES				P	VAR -3700688.	VAR	
		GENERAL CATALYST IV PROPERTY TYPE: SECURITIES				P	VAR -199,753.	VAR	
		SYCAMORE PART FUND I PROPERTY TYPE: SECURITIES				P	VAR 609,256.	VAR	
		BC PARTNERS X PROPERTY TYPE: SECURITIES				P	VAR -455.	VAR	
		ST GAIN/LOSS FROM LPS PROPERTY TYPE: SECURITIES				P	VAR 5,103,856.	VAR	
		LT GAIN/LOSS FROM LPS PROPERTY TYPE: SECURITIES				P	VAR 31676847.	VAR	
		SECTION 1231 FROM LPS PROPERTY TYPE: SECURITIES				P	VAR -6,105.	VAR	
TOTAL GAIN(LOSS) .....								<u>51931459.</u>	



FORM 990PF - GENERAL EXPLANATION ATTACHMENT

## PUBLIC DISSEMINATION AND TECHNICAL ASSISTANCE OF AWARDS

## PART IX-A, LINE 1

THE FOUNDATION PUBLICIZED THE RECIPIENTS OF THE SLOAN RESEARCH FELLOWSHIPS. NOMINATIONS FOR THE FELLOWSHIPS FROM ACADEMIA ARE REVIEWED AND CANDIDATES ARE SELECTED BY INDEPENDENT SELECTION COMMITTEES OF DISTINGUISHED SCHOLARS IN EACH ELIGIBLE FIELD.

IN ADDITION, THE FOUNDATION PUBLICIZED THE WINNERS OF SLOAN AWARDS FOR EXCELLENCE IN TEACHING MATHEMATICS AND SCIENCE, AN ANNUAL AWARDS PROGRAM THAT HONORS EXCEPTIONAL TEACHING IN NEW YORK CITY'S PUBLIC HIGH SCHOOLS.

EACH YEAR SINCE 1973, THE SLOAN PUBLIC SERVICE AWARDS HAVE RECOGNIZED SIX OUTSTANDING CIVIL SERVANTS OUT OF THE THOUSANDS OF PEOPLE WHO WORK FOR NEW YORK CITY GOVERNMENT. THE FUND FOR THE CITY OF NEW YORK MANAGES THE NOMINATION AND SELECTION PROCESS AND REFERS TO THE AWARDS AS THE NOBEL PRIZES OF GOVERNMENT, THE HIGHEST AWARD THAT CAN BE BESTOWED UPON A NEW YORK CITY PUBLIC SERVANT. THESE WINNERS ARE PUBLISHED IN THE NEW YORK TIMES.

THE FOUNDATION'S BOOK PROGRAM AIMS TO REACH A WIDE, LAY AUDIENCE, AND HAS SUPPORTED OVER 100 AUTHORS SINCE 1996 IN THE RESEARCH AND WRITING OF A WIDE RANGE OF BOOKS AIMED AT PUBLIC UNDERSTANDING OF SCIENCE, TECHNOLOGY AND ECONOMICS. BOOK GRANTS CAN BE MADE TO INDIVIDUALS OR TO AFFILIATED NONPROFIT ORGANIZATIONS AND ARE REVIEWED BY AN ADVISORY COMMITTEE.

FORM 990PF - GENERAL EXPLANATION ATTACHMENT

## SUPPORT PUBLIC CHARITABLE BOARD AND COMMITTEE SERVICE

PART IX-A, LINE 2

THE FOUNDATION PROVIDED TECHNICAL ASSISTANCE AND SUPPORT TO CHARITABLE ORGANIZATIONS, GOVERNMENTAL ENTITIES AND AGENCIES IN A VARIETY OF AREAS. DURING 2019, 9 STAFF MEMBERS SERVED ON BOARDS AND COMMITTEES OF CHARITABLE ORGANIZATIONS, AND PUBLIC COMMISSIONS AND TASK FORCES.

FORM 990PF - GENERAL EXPLANATION ATTACHMENT

## EDUCATIONAL CONFERENCES AND SEMINARS

PART IX-A, LINE 3

DURING 2019, THE FOUNDATION HELD EDUCATIONAL CONFERENCES AND SEMINARS TO EXAMINE THE NEWEST DEVELOPMENTS AND EDUCATE THE PRACTITIONERS ON THE STATE OF SCIENCE, TECHNOLOGY, ENGINEERING/ECONOMICS AND MATHEMATICS, (STEM) FIELDS.

FORM 990PF - GENERAL EXPLANATION ATTACHMENT

PART VI, LINE 6A

ORIGINAL AMOUNT OF OVERPAYMENT FROM 2018 RETURN:	1,332,997
ESTIMATED PAYMENTS MADE FOR 2019:	700,000
TOTAL AMOUNT OF CREDITS AVAILABLE FOR 2019:	2,649,122

ATTACHMENT 1FORM 990PF, PART I - OTHER INCOME

<u>DESCRIPTION</u>	<u>REVENUE AND EXPENSES PER BOOKS</u>	<u>NET INVESTMENT INCOME</u>
GRANT REFUNDS:		
RECV'D WITH GRANT TRANSFERS	900,994.	
REFUNDED GRANTS	520,050.	
MISCELLANEOUS	1,133.	
LIMITED PARTNERSHIP INCOME		3,963,027.
TOTALS	<u>1,422,177.</u>	<u>3,963,027.</u>

ATTACHMENT 2FORM 990PF, PART I - LEGAL FEES

<u>DESCRIPTION</u>	<u>REVENUE AND EXPENSES PER BOOKS</u>	<u>NET INVESTMENT INCOME</u>	<u>ADJUSTED NET INCOME</u>	<u>CHARITABLE PURPOSES</u>
PATTERSON BELKNAP	96,790.	13,831.		82,958.
SIMPSON THACHER	87,733.	87,733.		
INVESTMENT SECONDARY SALE	25,900.	25,900.		
SACK & SACK LLP	16,667.			
FOX ROTHSCHILD LLP	10,000.			
FRANKLIN, WEINRIB, RUDELL	5,362.			5,362.
JAMS, INC.	5,350.			
LEGAL FILINGS (NY CHARITABLE)	1,531.			1,531.
TOTALS	<u>249,333.</u>	<u>127,464.</u>		<u>89,851.</u>

ATTACHMENT 3FORM 990PF, PART I - ACCOUNTING FEES

<u>DESCRIPTION</u>	<u>REVENUE AND EXPENSES PER BOOKS</u>	<u>NET INVESTMENT INCOME</u>	<u>ADJUSTED NET INCOME</u>	<u>CHARITABLE PURPOSES</u>
GRANT THORNTON LLP	83,928.			34,228.
TOTALS	<u>83,928.</u>			<u>34,228.</u>

ATTACHMENT 4FORM 990PF, PART I - OTHER PROFESSIONAL FEES

<u>DESCRIPTION</u>	<u>REVENUE AND EXPENSES PER BOOKS</u>	<u>NET INVESTMENT INCOME</u>	<u>CHARITABLE PURPOSES</u>
INVESTMENT MANAGEMENT FEES	3,288,236.	3,255,354.	
CAMBRIDGE ASSOCIATES, INC.	65,000.	64,350.	
BACKSTOP SOLUTIONS GROUP, LLC	62,954.	62,324.	
BLACKROCK FINANCIAL MANAGEMENT	150,250.	148,748.	
BLOOMBERG L. P.	45,412.	44,958.	
CHECKFUNDMANAGER LLC	18,741.	18,554.	
EVESTMENT	72,752.	72,024.	
MERCER INC.	5,000.	4,950.	
MSCI, INC.	7,300.	7,227.	
NEW YORK STOCK EXCHANGE, INC	861.	852.	
PREQIN LTD.	10,300.	10,197.	
SULLIVAN, COTTER AND ASS INC.	1,150.	1,139.	
THE BURGISS GROUP	16,060.	15,899.	
ALLIANT INSURANCE SER. INC.	23,700.	3,353.	20,313.
BURNES COMMUNICATIONS	55,721.		55,721.
CORP. COUNSELING ASSOC. INC.	1,500.	212.	1,286.
ISAACSON MILLER, INC.	49,551.		49,551.
PETE MACKEY CONSULTING, LLC	178,909.	25,310.	153,343.
PSG COMMUNICATIONS	1,197.		1,197.
RISK & REGULATORY CONSTNG INC.	11,900.	1,684.	10,199.
THE CRONER COMPANY	6,000.	848.	5,143.
CAISSA LLC	100,000.	99,000.	
TOTALS	<u>4,172,494.</u>	<u>3,836,983.</u>	<u>296,753.</u>



ATTACHMENT 5FORM 990PF, PART I - TAXES

<u>DESCRIPTION</u>	<u>REVENUE AND EXPENSES PER BOOKS</u>	<u>NET INVESTMENT INCOME</u>
PROVISION FOR EXCISE TAX FOREIGN TAXES	2,450,000.	679,556.
TOTALS	<u>2,450,000.</u>	<u>679,556.</u>

ATTACHMENT 6FORM 990PF, PART I - OTHER EXPENSES

<u>DESCRIPTION</u>	<u>REVENUE AND EXPENSES PER BOOKS</u>	<u>NET INVESTMENT INCOME</u>	<u>CHARITABLE PURPOSES</u>
OFFICE EXPENSES	874,429.	124,955.	749,474.
PROGRAM SUPPORT	577,844.		577,844.
CONFERENCES AND EVENTS	200,711.		200,711.
BOARD OF TRUSTEES	123,983.	44,500.	79,483.
COMMUNICATIONS	3,234.		3,234.
LIMITED PARTNERSHIP EXPENSES		17,553,651.	
TOTALS	<u>1,780,201.</u>	<u>17,723,106.</u>	<u>1,610,746.</u>

FORM 990PF, PART II - U.S. AND STATE OBLIGATIONSATTACHMENT 7

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>	<u>ENDING FMV</u>
U.S. & STATE GOV. OBLIGATIONS	36,573,118.	36,573,118.
US OBLIGATIONS TOTAL	<u>36,573,118.</u>	<u>36,573,118.</u>

ATTACHMENT 8FORM 990PF, PART II - CORPORATE STOCK

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>	<u>ENDING FMV</u>
DOMESTIC EQUITIES	63,261,467.	63,261,467.
TOTALS	<u>63,261,467.</u>	<u>63,261,467.</u>

ATTACHMENT 9FORM 990PF, PART II - CORPORATE BONDS

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>	<u>ENDING FMV</u>
FIXED INCOME	135,899,682.	135,899,682.
EQUITIES	109,843,817.	109,843,817.
TOTALS	<u>245,743,499.</u>	<u>245,743,499.</u>

ATTACHMENT 10FORM 990PF, PART II - OTHER INVESTMENTS

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>	<u>ENDING FMV</u>
PRIVATE EQUITY	277,745,919.	277,745,919.
DOMESTIC EQUITY	358,638,287.	358,638,287.
INTERNATIONAL EQUITY	441,544,394.	441,544,394.
ABSOLUTE RETURN	315,230,227.	315,230,227.
REAL ESTATE	44,020,957.	44,020,957.
HYBRID	143,752,525.	143,752,525.
TOTALS	<u>1,580,932,309.</u>	<u>1,580,932,309.</u>

ATTACHMENT 11

FORM 990PF, PART II - OTHER LIABILITIES

<u>DESCRIPTION</u>	<u>ENDING BOOK VALUE</u>
ACCRUED EXPENSES	1,156,561.
TOTALS	<u>1,156,561.</u>

ATTACHMENT 12

FORM 990PF, PART III - OTHER INCREASES IN NET WORTH OR FUND BALANCES

<u>DESCRIPTION</u>	<u>AMOUNT</u>
UNREALIZED GAIN ON INVESTMENTS	224,866,877.
TOTAL	<u>224,866,877.</u>



ATTACHMENT 13FORM 990PF, PART III - OTHER DECREASES IN NET WORTH OR FUND BALANCES

<u>DESCRIPTION</u>	<u>AMOUNT</u>
AMOUNTS RECOGNIZED AS A COMPONENT OF	
NET PERIODIC BENEFIT COST	373,155.
OTHER PENSION-RELATED CHANGES	346,609.
TOTAL	<u>719,764.</u>

ATTACHMENT 14FORM 990PF, PART VII-A, LINE 11A-TRANSFERS TO CONTROLLED ENTITY STATEMENT

TOTAL AMOUNT

384.

CONTROLLED ENTITY'S NAME: SLOAN PROJECTS LLC  
CONTROLLED ENTITY'S ADDRESS: 630 FIFTH AVENUE, SUITE 2200  
CITY, STATE & ZIP: NEW YORK, NY 10111  
EIN: 27-0358278  
TRANSFER AMOUNT: 384.  
EXPLANATION OF TRANSFER TO CONTROLLED ENTITY:  
GENERAL SUPPORT

ATTACHMENT 15FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

GRANTEE'S NAME: JULIA COMPUTING  
GRANTEE'S ADDRESS: 20 GARLAND RD  
CITY, STATE & ZIP: NEWTON, MA 02459  
GRANT DATE: 06/13/2017  
GRANT AMOUNT: 912,609.  
GRANT PURPOSE: TO SUPPORT THE CONTINUED DEVELOPMENT OF THE JULIA  
PROGRAMMING LANGUAGE  
AMOUNT EXPENDED: 912,609.  
ANY DIVERSION? NO  
DATES OF REPORTS: 5/31/2018, 6/13/2018, 10/29/2019  
VERIFICATION DATE: 10/17/2019  
RESULTS OF VERIFICATION:  
GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: ABT ASSOCIATES  
GRANTEE'S ADDRESS: 55 WHEELER STREET  
CITY, STATE & ZIP: CAMBRIDGE, MA 02138  
GRANT DATE: 10/18/2016  
GRANT AMOUNT: 958,389.  
GRANT PURPOSE: TO COMPLETE AN EVALUATION OF THE MOORE-SLOAN DATA  
SCIENCE ENVIRONMENTS  
AMOUNT EXPENDED: 668,859.  
ANY DIVERSION? NO  
DATES OF REPORTS: 10/4/2017, 12/20/2017  
VERIFICATION DATE: 11/12/2018  
RESULTS OF VERIFICATION:  
GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: PRIVATE CAPITAL RESEARCH INSTITUTE  
GRANTEE'S ADDRESS: ARTHUR ROCK CENTER, RM. 314  
CITY, STATE & ZIP: BOSTON, MA 02163  
GRANT DATE: 06/13/2017  
GRANT AMOUNT: 500,000.  
GRANT PURPOSE: TO SET UP AN ADMIN. DATA RESEARCH FACILITY THAT MAKES  
DATA ABOUT THE PVT. CAP. INDUSTRY ACCESSIBLE  
AMOUNT EXPENDED: 158,193.  
ANY DIVERSION? NO  
DATES OF REPORTS: 5/24/2018, 6/7/2018, 3/28/2019, 6/30/2019  
VERIFICATION DATE: 07/22/2019  
RESULTS OF VERIFICATION:  
GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNITED STATES ASSO. FOR ENERGY ECONOMICS  
GRANTEE'S ADDRESS: 28790 CHAGRIN BLVD  
CITY, STATE & ZIP: CLEVELAND, OH 44122  
GRANT DATE: 04/19/2019  
GRANT AMOUNT: 15,000.  
GRANT PURPOSE: TO SUPPORT THE PH.D. DAY EVENT AND WOMEN IN ENERGY  
ROUNDTABLE AT THE 2019 USAEE NA CONFERENCE  
AMOUNT EXPENDED: 15,000.

CONT'D ON NEXT PAGE

FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

ANY DIVERSION? NO  
 DATES OF REPORTS: 1/23/2020  
 VERIFICATION DATE: 01/24/2020  
 RESULTS OF VERIFICATION:  
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: PARIS SCHOOL OF ECONOMICS  
 GRANTEE'S ADDRESS: 48 BD JOURDAN  
 CITY, STATE & ZIP: PARIS  
 FOREIGN COUNTRY: FRANCE 75014  
 GRANT DATE: 10/24/2017  
 GRANT AMOUNT: 900,000.  
 GRANT PURPOSE: TO IMPROVE THE QUALITY, QUANTITY, & ACCESSIBILITY OF  
 DATA IN THE WORLD WEALTH AND INCOME DATABASE  
 AMOUNT EXPENDED: 566,222.

ANY DIVERSION? NO  
 DATES OF REPORTS: 10/30/2018, 10/7/2019  
 VERIFICATION DATE: 10/29/2019  
 RESULTS OF VERIFICATION:  
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY COLLEGE LONDON  
 GRANTEE'S ADDRESS: GOWER STREET  
 CITY, STATE & ZIP: LONDON  
 FOREIGN COUNTRY: UNITED KINGDOM WC1E 6BT  
 GRANT DATE: 10/18/2017  
 GRANT AMOUNT: 70,000.  
 GRANT PURPOSE: TO CONDUCT A WORKSHOP & PUBLISH JOURNAL ON CATASTROPHIC  
 PERTURBATIONS OF EARTH'S DEEP CARBON  
 AMOUNT EXPENDED: 70,000.

ANY DIVERSION? NO  
 DATES OF REPORTS: 4/30/2019  
 VERIFICATION DATE: 05/28/2019  
 RESULTS OF VERIFICATION:  
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY COLLEGE LONDON  
 GRANTEE'S ADDRESS: GOWER STREET  
 CITY, STATE & ZIP: LONDON  
 FOREIGN COUNTRY: UNITED KINGDOM WC1E 6BT  
 GRANT DATE: 12/02/2017  
 GRANT AMOUNT: 20,000.  
 GRANT PURPOSE: TO EXPAND THE CONTENT & OUTREACH OF MICROECONOMIC  
 INSIGHTS, AN ONLINE SOURCE FOR SUMMARIES  
 AMOUNT EXPENDED: 20,000.

ANY DIVERSION? NO  
 DATES OF REPORTS: 1/23/2019, 2/1/2019  
 VERIFICATION DATE: 05/22/2019  
 RESULTS OF VERIFICATION:  
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

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FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

GRANTEE'S NAME: UNIVERSITY OF BOLOGNA  
 GRANTEE'S ADDRESS: VIA ZAMBONI 33  
 CITY, STATE & ZIP: BOLOGNA  
 FOREIGN COUNTRY: ITALY 40126  
 GRANT DATE: 04/12/2017  
 GRANT AMOUNT: 124,993.  
 GRANT PURPOSE: TO ESTABLISH AN OPEN SCHOLARLY CITATION DATABASE THAT  
 FREELY AND LEGALLY MAKES AVAIL ACCURATE DATA  
 AMOUNT EXPENDED: 124,993.  
 ANY DIVERSION? NO  
 DATES OF REPORTS: 2/2/2018, 1/1/2019  
 VERIFICATION DATE: 05/28/2019  
 RESULTS OF VERIFICATION:  
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY OF SYDNEY  
 GRANTEE'S ADDRESS: MADSEN BLDG, F09  
 CITY, STATE & ZIP: SYDNEY  
 FOREIGN PROVINCE: NEW SOUTH WALES  
 FOREIGN COUNTRY: AUSTRALIA 2006  
 GRANT DATE: 11/08/2017  
 GRANT AMOUNT: 100,000.  
 GRANT PURPOSE: TO MODIFY MODELS OF THE MOVEMENT OF EARTH'S TECTONIC  
 PLATES OVER THE PAST BN YRS TO INCORP. VISUL  
 AMOUNT EXPENDED: 27,130.  
 ANY DIVERSION? NO  
 DATES OF REPORTS: 9/13/2018, 1/24/2019  
 VERIFICATION DATE: 03/12/2019  
 RESULTS OF VERIFICATION:  
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY OF SYDNEY  
 GRANTEE'S ADDRESS: MADSEN BLDG, F09  
 CITY, STATE & ZIP: SYDNEY  
 FOREIGN PROVINCE: NEW SOUTH WALES  
 FOREIGN COUNTRY: AUSTRALIA 2006  
 GRANT DATE: 10/31/2018  
 GRANT AMOUNT: 80,000.  
 GRANT PURPOSE: TO STRENGTHEN THE DEEP CARBON SCIENCE COMMUNITY OF  
 AUSTRALIA & BUILD TECTONIC ("GPLATES") MODEL  
 AMOUNT EXPENDED:  
 ANY DIVERSION? NO  
 DATES OF REPORTS: N/A  
 VERIFICATION DATE:  
 RESULTS OF VERIFICATION:  
 N/A

GRANTEE'S NAME: INSTITUT DE PHYSIQUE DU GLOBE DE PARIS  
 GRANTEE'S ADDRESS: 1 RUE JUSSIEU  
 CITY, STATE & ZIP: PARIS

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FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

FOREIGN PROVINCE: ILE-DE-FRANCE  
FOREIGN COUNTRY: FRANCE 75238  
GRANT DATE: 10/13/2015  
GRANT AMOUNT: 300,150.  
GRANT PURPOSE: TO CREATE & LEAD "TASK FORCE 2020" TO CONSIDER POSSIBLE  
FUTURES FOR THE DEEP CARBON OBSERVATORY  
AMOUNT EXPENDED: 172,752.  
ANY DIVERSION? NO  
DATES OF REPORTS: 3/1/2016, 11/30/2016, 9/13/2018  
VERIFICATION DATE: 10/23/2018  
RESULTS OF VERIFICATION:  
GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: OPEN KNOWLEDGE FOUNDATION  
GRANTEE'S ADDRESS: ST JOHN'S INNOVATION CENTRE  
CITY, STATE & ZIP: CAMBRIDGE  
FOREIGN PROVINCE: CAMBRIDGESHIRE  
FOREIGN COUNTRY: UNITED KINGDOM CB4 0WS  
GRANT DATE: 06/19/2018  
GRANT AMOUNT: 749,624.  
GRANT PURPOSE: TO SUPPORT ADOPTION & USE OF A LIGHTWEIGHT DATA PKNG.  
STANDARD IN ORDER TO REDUCE FRICTIONS  
AMOUNT EXPENDED: 114,881.  
ANY DIVERSION? NO  
DATES OF REPORTS: 6/3/2019  
VERIFICATION DATE: 07/10/2019  
RESULTS OF VERIFICATION:  
GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITA DI ROMA LA SAPIENZA  
GRANTEE'S ADDRESS: PIAZZA ALDO MORO, 5  
CITY, STATE & ZIP: ROMA  
FOREIGN COUNTRY: ITALY 00185  
GRANT DATE: 11/16/2016  
GRANT AMOUNT: 102,753.  
GRANT PURPOSE: TO CONDUCT THE THIRD WORKSHOP OF EARLY CAREER  
SCIENTISTS OF THE DEEP CARBON OBSERVATORY  
AMOUNT EXPENDED: 102,753.  
ANY DIVERSION? NO  
DATES OF REPORTS: 9/6/2018, 2/6/2019, 3/13/2019  
VERIFICATION DATE: 03/13/2019  
RESULTS OF VERIFICATION:  
GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: ST. EDMUNDS COLLEGE, UNIV. OF CAMBRIDGE  
GRANTEE'S ADDRESS: MOUNT PLEASANT  
CITY, STATE & ZIP: CAMBRIDGE  
FOREIGN COUNTRY: UNITED KINGDOM CB3 0BN  
GRANT DATE: 11/28/2016  
GRANT AMOUNT: 55,000.

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FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

GRANT PURPOSE: TO WRITE THE FIRST HISTORY OF DEEP CARBON SCIENCE, A  
BOOK TITLED "CARBON FROM CRUST TO CORE"

AMOUNT EXPENDED: 45,878.

ANY DIVERSION? NO

DATES OF REPORTS: 11/27/2017, 9/18/2018, 12/3/2018, 12/11/2019

VERIFICATION DATE: 01/24/2020

RESULTS OF VERIFICATION:

GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY OF CANBERRA

GRANTEE'S ADDRESS: 11 KIRINARI ST

CITY, STATE & ZIP: BRUCE

FOREIGN PROVINCE: AUSTRALIAN CAPITAL TERRITORY

FOREIGN COUNTRY: AUSTRALIA 2617

GRANT DATE: 12/06/2018

GRANT AMOUNT: 135,373.

GRANT PURPOSE: TO STUDY THE ECONOMICS & MAINT. OF DIGI. INFRASTRUCTURE  
BY EXPLORING THE RELATIONSHIP BETWEEN WAGED

AMOUNT EXPENDED: 28,713.

ANY DIVERSION? NO

DATES OF REPORTS: 12/02/2019

VERIFICATION DATE: 12/12/2019

RESULTS OF VERIFICATION:

GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: MAX PLANCK INSTITUTE FOR CHEMISTRY

GRANTEE'S ADDRESS: ADMINISTRATION

CITY, STATE & ZIP: MAINZ

FOREIGN COUNTRY: GERMANY 55128

GRANT DATE: 10/16/2018

GRANT AMOUNT: 409,975.

GRANT PURPOSE: TO EXAMINE THE ROLE OF HUMANS AND HUMAN EMISSIONS  
IN INDOOR AIR CHEMISTRY

AMOUNT EXPENDED:

ANY DIVERSION? NO

DATES OF REPORTS: N/A

VERIFICATION DATE:

RESULTS OF VERIFICATION:

N/A

GRANTEE'S NAME: UNIVERSITY OF ZURICH

GRANTEE'S ADDRESS: RAEMISTRASSE

CITY, STATE & ZIP: ZURICH

FOREIGN COUNTRY: SWITZERLAND 80

GRANT DATE: 04/20/2018

GRANT AMOUNT: 19,610.

GRANT PURPOSE: TO ENCOURAGE STANDARDIZATION OF SURVEY INSTRUMENTS IN  
DOMAIN OF STUDIES ABOUT PEOPLE'S INTERNET USE

AMOUNT EXPENDED: 19,610.

ANY DIVERSION? NO

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FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

DATES OF REPORTS: 4/16/2020  
 VERIFICATION DATE: 06/03/2020  
 RESULTS OF VERIFICATION:  
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: UNIVERSITY OF ZURICH  
 GRANTEE'S ADDRESS: RAEMISTRASSE  
 CITY, STATE & ZIP: ZURICH  
 FOREIGN COUNTRY: SWITZERLAND 80  
 GRANT DATE: 09/13/2019  
 GRANT AMOUNT: 49,886.  
 GRANT PURPOSE: TO SUPPORT RESEARCH ON THE PROCESSES BY WHICH  
 RESEARCHERS CONSTRUCT SURVEY INSTRUMENTS

AMOUNT EXPENDED:  
 ANY DIVERSION? NO  
 DATES OF REPORTS: N/A  
 VERIFICATION DATE:  
 RESULTS OF VERIFICATION:  
 N/A

GRANTEE'S NAME: UNIVERSITY OF YORK  
 GRANTEE'S ADDRESS: HESLINGTON  
 CITY, STATE & ZIP: YORK  
 FOREIGN PROVINCE: NORTH YORKSHIRE  
 FOREIGN COUNTRY: UNITED KINGDOM YO10 5DD  
 GRANT DATE: 03/20/2018  
 GRANT AMOUNT: 254,546.  
 GRANT PURPOSE: TO DEV. AN OPEN SOURCE MODEL FOR INVESTIGATING INDOOR  
 GAS-PHASE CHEMISTRY & EXPAND SCIENCE COMM.

AMOUNT EXPENDED: 75,701.  
 ANY DIVERSION? NO  
 DATES OF REPORTS: 2/27/2019, 3/1/2019  
 VERIFICATION DATE: 03/12/2019  
 RESULTS OF VERIFICATION:  
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

GRANTEE'S NAME: RETRO REPORT  
 GRANTEE'S ADDRESS: 633 THIRD AVENUE, 16TH FLOOR  
 CITY, STATE & ZIP: NEW YORK, NY 10017  
 GRANT DATE: 10/16/2018  
 GRANT AMOUNT: 65,000.  
 GRANT PURPOSE: TO SUPPORT RESEARCH AND PRODUCTION OF A SHORT DIGITAL  
 DOCUMENTARY AND ACCOMPANYING VID. ON THE STEM

AMOUNT EXPENDED: 65,000.  
 ANY DIVERSION? NO  
 DATES OF REPORTS: 6/25/2019, 9/20/2019  
 VERIFICATION DATE: 10/01/2019  
 RESULTS OF VERIFICATION:  
 GRANT FUNDS FOR PURPOSE VERIFIED BY REPORT.

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FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

GRANTEE'S NAME: THE MR. OCTOBER FOUNDATION FOR KIDS  
 GRANTEE'S ADDRESS: 500 VALENZUELA ROAD  
 CITY, STATE & ZIP: CARMEL, CA 93923  
 GRANT DATE: 11/06/2019  
 GRANT AMOUNT: 50,000.  
 GRANT PURPOSE: TO PROVIDE PARTIAL SUPPORT FOR AN AFTERSCHOOL SUMMER  
 STEM ENRICHMENT PROG. AT SIX PUBLIC SCHOOLS

AMOUNT EXPENDED:  
 ANY DIVERSION? NO  
 DATES OF REPORTS: N/A  
 VERIFICATION DATE:  
 RESULTS OF VERIFICATION:  
 N/A

GRANTEE'S NAME: AZAVEA, INC.  
 GRANTEE'S ADDRESS: 340 N. 12TH STREET, SUITE 402  
 CITY, STATE & ZIP: PHILADELPHIA, PA 19107  
 GRANT DATE: 09/10/2019  
 GRANT AMOUNT: 249,101.  
 GRANT PURPOSE: TO IMPROVE THE SCALABILITY AND PERFORMANCE OF OPEN  
 SOURCE MAPPING SOFTWARE

AMOUNT EXPENDED:  
 ANY DIVERSION? NO  
 DATES OF REPORTS: N/A  
 VERIFICATION DATE:  
 RESULTS OF VERIFICATION:  
 N/A

GRANTEE'S NAME: CANADIAN INSTITUTE FOR ADVANCED RESEARCH  
 GRANTEE'S ADDRESS: 661 UNIVERSITY AVENUE  
 CITY, STATE & ZIP: TORONTO  
 FOREIGN PROVINCE: ONTARIO  
 FOREIGN COUNTRY: CANADA M5G 1M1  
 GRANT DATE: 10/15/2019  
 GRANT AMOUNT: 475,000.  
 GRANT PURPOSE: TO CONNECT CAUSAL INFERENCE CONSIDERATIONS WITH ADVNCD.  
 RESEARCH ON LEARNING IN MACHINES AND BRAINS

AMOUNT EXPENDED:  
 ANY DIVERSION? NO  
 DATES OF REPORTS: N/A  
 VERIFICATION DATE:  
 RESULTS OF VERIFICATION:  
 N/A

GRANTEE'S NAME: RUSSELL SAGE FOUNDATION  
 GRANTEE'S ADDRESS: 112 EAST 64TH STREET  
 CITY, STATE & ZIP: NEW YORK, NY 10065  
 GRANT DATE: 07/15/2019  
 GRANT AMOUNT: 50,000.  
 GRANT PURPOSE: TO PUBLISH A SPECIAL VOL. OF RUSSEL SAGE FDN. JOURNAL  
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FORM 990PF, PART VII-B, LINE 5C-EXPENDITURE RESPONSIBILITY STATEMENT

OF THE SOCIAL SCIENCE ON LABOUR MARKET

AMOUNT EXPENDED:

ANY DIVERSION? NO

DATES OF REPORTS: N/A

VERIFICATION DATE:

RESULTS OF VERIFICATION:

N/A

FORM 990PF, PART VIII - LIST OF OFFICERS, DIRECTORS, AND TRUSTEESATTACHMENT 16

<u>NAME AND ADDRESS</u>	<u>TITLE AND AVERAGE HOURS PER WEEK DEVOTED TO POSITION</u>	<u>COMPENSATION</u>	<u>CONTRIBUTIONS TO EMPLOYEE BENEFIT PLANS</u>	<u>EXPENSE ACCT AND OTHER ALLOWANCES</u>
ADAM FALK 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE/PRESIDENT 40.00	1,016,025.	77,265.	0.
CONTRIBUTIONS TO EMPLOYEE BENEFIT PLANS INCLUDE AMOUNTS CONTRIBUTED TO THE FOUNDATION'S MEDICAL, DENTAL, VISION, LIFE AND DISABILITY INSURANCE, VESTED AMOUNTS CONTRIBUTED TO THE FOUNDATION'S RETIREMENT PLANS.				
LEISLE LIN 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TREASURER/SVP, FINANCE & OPS. 40.00	716,650.	77,299.	0.
CYNTHIA BARNHART 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	31,500.	0.	0.
BONNIE L BASSLER 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	27,000.	0.	0.
FRANCINE BERMAN 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	29,500.	0.	0.

FORM 990PF, PART VIII - LIST OF OFFICERS, DIRECTORS, AND TRUSTEESATTACHMENT 16 (CONT'D)

<u>NAME AND ADDRESS</u>	<u>TITLE AND AVERAGE HOURS PER WEEK DEVOTED TO POSITION</u>	<u>COMPENSATION</u>	<u>CONTRIBUTIONS TO EMPLOYEE BENEFIT PLANS</u>	<u>EXPENSE ACCT AND OTHER ALLOWANCES</u>
RICHARD BERNSTEIN 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 3.00	34,500.	0.	0.
KEVIN BURKE 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	31,500.	0.	0.
FREDERICK HENDERSON 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	31,500.	0.	0.
FREEMAM A HRABOWSKI III 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 3.00	34,500.	0.	0.
ROBERT LITTERMAN 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	29,000.	0.	0.
JAMES M POTERBA 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 3.00	34,000.	0.	0.

FORM 990PF, PART VIII - LIST OF OFFICERS, DIRECTORS, AND TRUSTEESATTACHMENT 16 (CONT'D)

<u>NAME AND ADDRESS</u>	<u>TITLE AND AVERAGE HOURS PER WEEK DEVOTED TO POSITION</u>	<u>COMPENSATION</u>	<u>CONTRIBUTIONS TO EMPLOYEE BENEFIT PLANS</u>	<u>EXPENSE ACCT AND OTHER ALLOWANCES</u>
MICHAEL PURUGGANAN 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	29,500.	0.	0.
MARY SCHMIDT CAMPBELL 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE 2.00	29,000.	0.	0.
MARTA TIENDA 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	TRUSTEE/CHAIRMAN 4.00	40,000.	0.	0.
	GRAND TOTALS	<u>2,114,175.</u>	<u>154,564.</u>	<u>0.</u>

990PF, PART VIII - COMPENSATION OF THE FIVE HIGHEST PAID EMPLOYEESATTACHMENT 17

<u>NAME AND ADDRESS</u>	<u>TITLE AND AVERAGE HOURS PER WEEK DEVOTED TO POSITION</u>	<u>COMPENSATION</u>	<u>CONTRIBUTIONS TO EMPLOYEE BENEFIT PLANS</u>	<u>EXPENSE ACCT AND OTHER ALLOWANCES</u>
ELIZABETH HEWITT 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	CHIEF INV OFFICER 40.00	1,100,313.	97,177.	0.
DORON WEBER 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	PROGRAM DIRECTOR 40.00	662,025.	82,937.	0.
MONICA LAI 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	SENIOR INV DIRECTOR 40.00	653,267.	89,660.	0.
DANIEL GOROFF 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	PROGRAM DIRECTOR 40.00	652,025.	83,395.	0.
WILLIAM MASLOVSKY 630 FIFTH AVENUE, SUITE 2200 NEW YORK, NY 10111	SENIOR INV DIRECTOR 40.00	529,525.	95,930.	0.
	TOTAL COMPENSATION	<u>3,597,155.</u>	<u>449,099.</u>	<u>0.</u>

990PF, PART VIII- COMPENSATION OF THE FIVE HIGHEST PAID PROFESSIONALSATTACHMENT 18

<u>NAME AND ADDRESS</u>	<u>TYPE OF SERVICE</u>	<u>COMPENSATION</u>
RGM CAPITAL 9010 STRADA STELL CT # 105 NAPLES, FL 34109	INVESTMENT MGMT FEES	1,909,376.
SILCHESTER INTERNATIONAL INVESTORS 780 3RD AVE #4201 NEW YORK, NY 10172	INVESTMENT MGMT FEES	446,984.
LONE CASCADE TWO GREENWICH PLAZA, SECONF FL GREENWICH, CT 06830	INVESTMENT MGMT FEES	285,834.
BNY MELLON CUSTODY FEES 240 GREENWICH STREET NEW YORK, NY 10286	INVESTMENT CUSTODY	266,606.
PETE MACKEY CONSULTING 648 STATION ROAD AMHERST, MA 01002	COMMUNICATIONS	178,909.
	TOTAL COMPENSATION	<u>3,087,709.</u>

FORM 990PF, PART XV - NAME, ADDRESS AND PHONE FOR APPLICATIONS

MR. ADAM FALK - GRANTS  
630 FIFTH AVENUE, SUITE 2200  
NEW YORK, NY 10111  
212-649-1649

FORM IN WHICH APPLICATION SHOULD BE SUBMITTED AND INFORMATION THEY SHOULD INCLUDE:

AN INTERESTED GRANTSEEKER SHOULD SUBMIT A LETTER OF INQUIRY BY EMAIL TO THE APPROPRIATE PROGRAM DIRECTOR. GRANTSEEKERS THAT SUBMIT PROMISING LETTERS OF INQUIRY WILL BE INVITED TO SUBMIT A FORMAL GRANT PROPOSAL.

ALL GRANT PROPOSALS MUST INCLUDE A PROPOSAL COVER SHEET, PROPOSAL, BUDGET, APPENDICES AND PROPOSAL ADMINISTRATION FORM SUBMITTED VIA EMAIL.

ONCE A PROPOSAL HAS BEEN SUBMITTED, THE FOUNDATION WILL EVALUATE THE PROPOSAL. THE FOUNDATION'S GRANT REVIEW AND APPROVAL PROCESS IS EXTREMELY RIGOROUS AND DESIGNED TO MIMIC THE PEER REVIEW PROCESS AT HIGH QUALITY ACADEMIC JOURNALS. DEPENDING ON THE FUNDS REQUESTED AND THE COMPLEXITY OF THE WORK TO BE PERFORMED, THE FOUNDATION MAY SEEK INDEPENDENT EXPERT REVIEW OF THE PROPOSAL. IF SO, GRANTSEEKERS ARE



FORM 990PF, PART XV - NAME, ADDRESS AND PHONE FOR APPLICATIONS

FORM IN WHICH APPLICATION SHOULD BE SUBMITTED AND INFORMATION THEY SHOULD INCLUDE:

GIVEN THE OPPORTUNITY TO RESPOND IN WRITING TO REVIEWER COMMENTS. IT IS NOT UNUSUAL FOR A GRANTSEEKER TO BE ASKED TO REVISE, AMEND, OR SUPPLEMENT THE ORIGINAL PROPOSAL (SOMETIMES SIGNIFICANTLY) AS A RESULT OF THE PROPOSAL REVIEW PROCESS.

SUBMISSION DEADLINES:

NONE

RESTRICTIONS OR LIMITATIONS ON AWARDS:

- THE ALFRED P. SLOAN FOUNDATION DOES NOT ACCEPT OR REVIEW UNSOLICITED GRANT PROPOSALS.
- THE FOUNDATION MAKES GRANTS PRIMARILY TO SUPPORT ORIGINAL RESEARCH AND EDUCATION RELATED TO SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS, AND ECONOMICS.
- THE FOUNDATION DOES NOT MAKE GRANTS TO POLITICAL CAMPAIGNS, TO SUPPORT POLITICAL ACTIVITIES, OR TO LOBBY FOR OR AGAINST PARTICULAR PIECES OF LEGISLATION.
- THE FOUNDATION DOES NOT MAKE GRANTS TO INDIVIDUALS EXCEPT THROUGH ITS BOOKS PROGRAM.
- THE FOUNDATION DOES NOT GENERALLY MAKE GRANTS TO FOR-PROFIT INSTITUTIONS.
- THE FOUNDATION DOES NOT MAKE GRANTS IN RELIGION, MEDICAL RESEARCH, OR RESEARCH IN THE HUMANITIES.
- THE FOUNDATION DOES NOT MAKE GRANTS AIMED AT PRE-COLLEGE STUDENTS EXCEPT THROUGH ITS NEW YORK CITY INITIATIVE.
- THE FOUNDATION DOES NOT MAKE GRANTS TO PROJECTS IN THE CREATIVE OR PERFORMING ARTS EXCEPT WHEN THOSE PROJECTS ARE RELATED TO EDUCATING THE PUBLIC ABOUT SCIENCE, TECHNOLOGY, OR ECONOMICS.
- THE FOUNDATION DOES NOT MAKE GRANTS FOR ENDOWMENTS, FUNDRAISING DRIVES, OR FUNDRAISING DINNERS.
- THE FOUNDATION DOES NOT MAKE GRANTS IN SUPPORT OF THE PURCHASE, CONSTRUCTION, OR RENOVATION OF BUILDINGS OR LABORATORIES. ON SOME OCCASIONS, THE FOUNDATION WILL SUPPORT THE PURCHASE OR CONSTRUCTION OF SCIENTIFIC EQUIPMENT IF SUCH EQUIPMENT IS ESSENTIAL TO THE SUCCESS OF A FOUNDATION-SUPPORTED RESEARCH PROJECT OR EDUCATIONAL INITIATIVE.

LAUREN VON ECKARTSBERG-FELLOWSHIPS  
630 FIFTH AVENUE, SUITE 2200  
NEW YORK, NY 10111  
212-649-1649

FORM IN WHICH APPLICATION SHOULD BE SUBMITTED AND INFORMATION THEY SHOULD INCLUDE:

CANDIDATES ARE NOMINATED BY DEPARTMENT HEADS OR OTHER SENIOR SCHOLARS. DIRECT APPLICATIONS ARE NOT ACCEPTED. NOMINATION FORMS ARE AVAILABLE ON REQUEST TO MS. LAUREN VON ECKARTSBERG OR ONLINE AT WWW.SLOAN.ORG/FELLOWSHIPS. IN ADDITION TO THIS FORM, THE NOMINATOR

FORM 990PF, PART XV - NAME, ADDRESS AND PHONE FOR APPLICATIONS

FORM IN WHICH APPLICATION SHOULD BE SUBMITTED AND INFORMATION THEY SHOULD INCLUDE:

SHOULD SUBMIT A LETTER DESCRIBING THE CANDIDATE'S QUALIFICATIONS AND MUST SEE THAT THE FOUNDATION RECEIVES 3 SUPPORTING LETTERS DIRECTLY FROM OTHER SCHOLARS, PREFERABLY NOT AT THE SAME INSTITUTION. A CV, A LIST OF THE CANDIDATE'S PUBLICATIONS, A ONE PAGE STATEMENT AS WELL A ONE COPY OF EACH OF NO MORE THAN TWO REPRESENTATIVE PUBLICATIONS SHOULD ACCOMPANY THE NOMINATION FORM AND LETTER.

SUBMISSION DEADLINES:

NOMINATIONS ARE DUE BY MID-SEPTEMBER, AROUND THE 15TH, FOR THOSE AWARDS WHICH ARE AWARDED THE FOLLOWING YEAR.

RESTRICTIONS OR LIMITATIONS ON AWARDS:

- THE SLOAN RESEARCH FELLOWSHIPS SEEK TO STIMULATE FUNDAMENTAL RESEARCH BY EARLY-CAREER SCIENTISTS AND SCHOLARS OF OUTSTANDING PROMISE.
- THESE TWO-YEAR FELLOWSHIPS ARE AWARDED YEARLY TO 126 RESEARCHERS IN RECOGNITION OF DISTINGUISHED PERFORMANCE AND A UNIQUE POTENTIAL TO MAKE SUBSTANTIAL CONTRIBUTIONS TO THEIR FIELD
- CANDIDATES MUST HOLD A TENURE TRACK (OR EQUIVALENT) POSITION AT A COLLEGE, UNIVERSITY, OR OTHER DEGREE-GRANTING INSTITUTION IN THE UNITED STATES OR CANADA.
- TENURE TRACK FACULTY POSITIONS AT THE CANDIDATE'S INSTITUTION MUST INCLUDE A YEARLY TEACHING REQUIREMENT.
- CANDIDATES MUST HOLD A PH.D. (OR EQUIVALENT) IN CHEMISTRY, COMPUTATIONAL OR EVOLUTIONARY MOLECULAR BIOLOGY, COMPUTER SCIENCE, ECONOMICS, MATHEMATICS, NEUROSCIENCE, OCEAN SCIENCES, PHYSICS, OR A RELATED FIELD.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ADLER PLANETARIUM 1300 S LAKE SHORE DRIVE CHICAGO, IL 60605	NONE PC	TO ENGAGE FAITH-BASED AND INTERFAITH COMMUNITIES WITH SCIENTIFIC RESEARCH THROUGH CITIZEN SCIENCE PROJECTS ON ZOONIVERSE	50,000.
AINISSA RAMIREZ 1710 ELLA T. GRASSO BLVD NEW HAVEN, CT 06511	NONE I	TO SUPPORT RESEARCH FOR AND WRITING OF THE ALCHEMY OF US: HOW MATTER AND HUMANS TRANSFORMED ONE ANOTHER (MIT PRESS 2018), A BOOK ABOUT HOW HUMAN ENGINEERING AND THE INVENTION OF 8 KEY MATERIAL DEVICES CHANGED OUR LIVES	17,500.
AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE 1200 NEW YORK AVENUE, NW WASHINGTON, DC 20005	NONE PC	TO CONTINUE TO PROMOTE THE PROFESSIONALIZATION AND INSTITUTIONALIZATION OF THE ROLE OF THE COMMUNITY ENGAGEMENT MANAGER IN SCIENTIFIC SOCIETIES AND LARGE-SCALE RESEARCH COLLABORATIONS	206,872.
AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE 1200 NEW YORK AVENUE, NW WASHINGTON, DC 20005	NONE PC	TO SUPPORT A ONE-DAY SYMPOSIUM ON THE CHEMISTRY OF INDOOR ENVIRONMENTS	85,296.
AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE 1200 NEW YORK AVENUE, NW WASHINGTON, DC 20005	NONE PC	TO PROVIDE INSTITUTIONS OF HIGHER EDUCATION WITH THE INFORMATION THEY NEED TO CONTINUE ENHANCING DIVERSITY EFFORTS IN WAYS THAT ARE MISSION-ALIGNED AND LEGALLY SUSTAINABLE	500,000.
AMERICAN COUNCIL ON EDUCATION ONE DUPONT CIRCLE, NW, SUITE 800 WASHINGTON, DC 20036-1193	NONE PC	TO FUND PHASE 1 OF A MULTI-YEAR RESEARCH EFFORT AIMED AT DEVELOPING PRACTICE-BASED INSIGHTS RELATIVE TO EQUITY-MINDED LEADERSHIP IN HIGHER EDUCATION AND SHARING THE FINDINGS WITH THE FIELD AT LARGE	200,000.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
AMERICAN FILM INSTITUTE 2021 NORTH WESTERN AVENUE LOS ANGELES, CA 90027	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	115,000.
AMERICAN FRIENDS OF THE NATIONAL GALLERY, LONDON 275 MADISON AVENUE, 6TH FL NEW YORK, NY 10016	NONE PC	TO SUPPORT "LEONARDO: EXPERIENCE A MASTERPIECE," AN IMMERSIVE DIGITAL EXHIBITION THAT INTEGRATES THE ART AND SCIENCE OF LEONARDO DA VINCI	100,000.
AMERICAN FRIENDS OF TOULOUSE SCHOOL OF ECONOMICS C/O SARATOGA ASSOCIATES 116 WEST MAIN STREET, SUITE 302 SALISBURY, MD 21801	NONE PC	TO BUILD OUT AN OPEN-SOURCE PLATFORM FOR REPRODUCIBLY RUNNING LARGE-SCALE BEHAVIORAL EXPERIMENTS BOTH ONLINE AND IN THE LABORATORY	100,000.
AMERICAN GEOPHYSICAL UNION 2000 FLORIDA AVENUE, NW WASHINGTON, DC 20009	NONE PC	TO ADDRESS SEXUAL HARASSMENT AND OTHER RELATED MATTERS THAT AFFECT GENDER INCLUSION THROUGH NEW EDUCATIONAL RESOURCES AND VALIDATED MEASUREMENT TOOLS	350,000.
AMERICAN INSTITUTE OF MATHEMATICS 600 E. BROKAW ROAD SAN JOSE, CA 95112	NONE PC	TO BRING ENGAGING MATHEMATICS EDUCATION TO UNACCOMPANIED MINORS AWAITING IMMIGRATION DECISIONS	45,000.
AMERICAN MUSEUM OF THE MOVING IMAGE 36-01 35TH AVENUE ASTORIA, NY 11106	NONE PC	TO MAINTAIN THE COMPREHENSIVE, UP-TO-DATE, GO-TO SITE FOR THE NATIONWIDE SLOAN FILM PROGRAM, ITS PARTNERS, AND 600+ FILM PROJECTS AND TO DEVELOP RELATED OUTREACH, EVENTS, AND EDUCATIONAL MATERIALS FOR STUDENTS, TEACHERS, AND THE GENERAL PUBLIC	146,700.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
AMERICAN PHYSICAL SOCIETY 1 PHYSICS ELLIPSE COLLEGE PARK, MD 20740	NONE PC	TO PROVIDE THREE YEARS OF SUPPORT FOR A KEYNOTE LECTURE AND ASSOCIATED ACTIVITIES AT THE ANNUAL CONFERENCE FOR UNDERGRADUATE WOMEN IN PHYSICS (CUWIP) WHILE THE SOCIETY BUILDS AN ENDOWMENT FOR THE "MILLIE DRESSELHAUS FUND FOR SCIENCE AND SOCIETY"	49,500.
AMERICAN PHYSICAL SOCIETY 1 PHYSICS ELLIPSE COLLEGE PARK, MD 20740	NONE PC	TO SUPPORT TWO CONFERENCES THAT SEEK TO INCREASE THE NUMBER OF UNDERREPRESENTED MINORITY (URM) STUDENTS WHO ARE WELL-PREPARED FOR DOCTORAL PROGRAMS AND WHO COMPLETE PHDS IN THE PHYSICAL SCIENCES	161,124.
AMERICAN STATISTICAL ASSOCIATION 1429 DUKE STREET ALEXANDRIA, VA 22314-3415	NONE PC	TO RECRUIT, TRAIN, PLACE, AND SUPPORT ACADEMIC STATISTICIANS AND DATA SCIENTISTS WHO WILL WORK AS AAAS FELLOWS IN THE FEDERAL GOVERNMENT	449,392.
AMERICAN UNIVERSITY 4400 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20016-8061	NONE PC	TO INCORPORATE A BROAD PORTFOLIO OF NEGATIVE EMISSIONS TECHNOLOGIES INTO EXISTING INTEGRATED ASSESSMENT MODELS	110,000.
ANNUAL REVIEWS 4139 EL CAMINO WAY PALO ALTO, CA 94303	NONE PC	TO DEVELOP AND EXPAND KNOWABLE MAGAZINE, A NEW DIGITAL PUBLICATION THAT UNLOCKS SCIENTIFIC RESEARCH TO INFORM THE PUBLIC DISCOURSE WITH COMPELLING, TIMELY, AND IMPARTIAL KNOWLEDGE	380,000.
ARIZONA STATE UNIVERSITY 300 E UNIVERSITY DRIVE, PO BOX 877205 TEMPE, AZ 85287-7205	NONE GOV	TO CREATE A FREE, OPEN SOURCE, INTERACTIVE, DIGITAL EDITION OF FRANKENSTEIN: ANNOTATED FOR SCIENTISTS, ENGINEERS AND CREATORS OF ALL KINDS THAT BRIDGES THE SCIENCES AND HUMANITIES AND SEEKS TO FOSTER AN ENGAGED COMMUNITY OF READERS	30,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ARIZONA STATE UNIVERSITY 300 E UNIVERSITY DRIVE, PO BOX 877205 TEMPE, AZ 85287-7205	NONE GOV	TO SUPPORT STANDARDS AND COMMUNITY DEVELOPMENT TO IMPROVE THE FLEXIBILITY AND INTEROPERABILITY OF COMPUTATIONAL MODELS	124,973.
ARIZONA STATE UNIVERSITY 300 E UNIVERSITY DRIVE, PO BOX 877205 TEMPE, AZ 85287-7205	NONE GOV	TO SUPPORT DR. CANDACE CHAN IN UNDERTAKING A COLLABORATIVE RESEARCH PROJECT ON THE SOLID ELECTROLYTE INTERPHASE IN BATTERIES, RESULTING FROM THE 2018 SCIALOG CONFERENCE ON ADVANCED ENERGY STORAGE	36,666.
ARIZONA STATE UNIVERSITY FOUNDATION P.O. BOX 2260 TEMPE, AZ 85280-2260	NONE PC	TO STUDY THE ECONOMICS AND MAINTENANCE OF DIGITAL INFRASTRUCTURE THROUGH CASE STUDIES OF THE FUNDING AND IMPACT OF SOFTWARE INSTRUMENTS IN STELLAR ASTROPHYSICS	36,942.
ART OF PROBLEM SOLVING INITIATIVE, INC. 55 EXCHANGE PLACE, SUITE 603 NEW YORK, NY 10005	NONE PC	TO PROVIDE RENEWED PARTIAL SUPPORT FOR THE BEAM 6 PROGRAM	230,000.
ASSOCIATION OF AMERICAN UNIVERSITIES 1200 NEW YORK AVE, NW, SUITE 550 WASHINGTON, DC 20005	NONE PC	TO CONSTRUCT MORE STUDENT-CENTERED EDUCATIONAL ENVIRONMENTS FOR ALL GRADUATE STUDENTS BY ACTIVE INSTITUTIONAL AND DEPARTMENTAL SUPPORT FOR A VARIETY OF CAREER OPTIONS AND FOR INCREASED INCLUSION OF STUDENTS FROM UNDERREPRESENTED GROUPS	100,000.
ASTROPHYSICAL RESEARCH CONSORTIUM	NONE	TO UNDERTAKE THE SLOAN DIGITAL SKY SURVEY V (SDSS-V), WHICH WILL UTILIZE ALL-SKY SPECTROSCOPIC OBSERVATIONS TO EXPLAIN THE GENESIS OF THE MILKY WAY AND ITS NEIGHBORS, COMPREHENSIVELY TEST STELLAR ASTROPHYSICS AND STAR-PLANET RELATIONS, PROBE SUPERMASSIVE BLACK HOLE PHYSICS, AND MAP, ON UNPRECEDENTED SCALES, THE MILKY WAY'S INTERSTELLAR GAS AND THAT OF	2,375,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
U OF WASHINGTON, BOX 351580 C/O DEPT OF ASTRONOMY SEATTLE, WA 98195	PC	NEARBY GALAXIES	
ASTROPHYSICAL RESEARCH CONSORTIUM U OF WASHINGTON, BOX 351580 C/O DEPT OF ASTRONOMY SEATTLE, WA 98195	NONE PC	TO MAXIMIZE THE SUSTAINABILITY OF THE SLOAN DIGITAL SKY SURVEY (SDSS) DATA ARCHIVE	200,000.
ASTROPHYSICAL RESEARCH CONSORTIUM U OF WASHINGTON, BOX 351580 C/O DEPT OF ASTRONOMY SEATTLE, WA 98195	NONE PC	TO CONTINUE SUPPORT FOR THE FACULTY AND STUDENT TEAM (FAST) PROGRAM WITHIN THE SLOAN DIGITAL SKY SURVEY (SDSS) THAT AIMS TO INCREASE THE NUMBER OF UNDERREPRESENTED MINORITY STUDENTS AND FACULTY IN THE COLLABORATION AND INCREASE THE NUMBER OF STUDENTS PURSUING ASTRONOMY PH.D. PROGRAMS	200,000.
AUSTRALIAN NATIONAL UNIVERSITY FOUNDATION 1000 N WEST STREET, #1200 WILMINGTON, DE 19801	NONE PC	TO BUILD, ENHANCE, AND PROMOTE A NEW PATH TO DOCUMENT CREATION AND PUBLISHING FOR NEXT-GENERATION SCIENTIFIC TEXTBOOKS AND LECTURES	354,623.
AZAVEA, INC. 340 N. 12TH STREET, SUITE 402 PHILADELPHIA, PA 19107	NONE NC	TO IMPROVE THE SCALABILITY AND PERFORMANCE OF OPEN SOURCE MAPPING SOFTWARE THAT MAKES GEOGRAPHIC, DEMOGRAPHIC, AND REDISTRICTING DATA USABLE BY SOCIAL SCIENTISTS AND THE PUBLIC	249,101.
BARNARD COLLEGE 3009 BROADWAY NEW YORK, NY 10027-6598	NONE PC	TO SUPPORT THE LEADING WOMEN'S FILM FESTIVAL, THE ATHENA FILM FESTIVAL AT BARNARD, WITH MORE WOMEN-IN-STEM PROGRAMMING	200,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BARNARD COLLEGE AND COLUMBIA ENGINEERING 3009 BROADWAY NEW YORK, NY 10027-6598	NONE PC	TO SHAPE AND IMPLEMENT A PROGRAM TO BUILD UNDERGRADUATE SCIENCE AND MATH PIPELINES TO ENGINEERING DEGREES AT THE MASTER'S LEVEL, AIMED PARTICULARLY AT WOMEN AND UNDERREPRESENTED MINORITY STUDENTS	100,000.
BIOBUS 1361 AMSTERDAM AVE STE 340 NEW YORK, NY 10027	NONE PC	TO PROVIDE RENEWED SUPPORT TO EXPAND ACTIVITIES WHILE CREATING THE PHYSICAL, FUNDRAISING, AND EVALUATION INFRASTRUCTURE TO ENSURE SUSTAINABLE GROWTH	300,000.
BOISE STATE UNIVERSITY 1910 UNIVERSITY DRIVE BOISE, ID 83725	NONE GOV	TO SUPPORT DR. CLAIRE XIONG IN UNDERTAKING A COLLABORATIVE RESEARCH CONFERENCE ON THE SOLID ELECTROLYTE INTERPHASE IN BATTERIES, RESULTING FROM THE 2018 SCIALOG CONFERENCE ON ADVANCED ENERGY STORAGE	36,666.
BOSTON COLLEGE 140 COMMONWEALTH AVE, JOYCE HOUSE CHESTNUT HILL, MA 02467	NONE PC	TO STRENGTHEN NETWORK MEMBER ENGAGEMENT OF THE SLOAN RESEARCH NETWORK AND SUCCESSFULLY TRANSITION TO A NEW STRUCTURE AND LEADERSHIP	140,555.
BOSTON COLLEGE 140 COMMONWEALTH AVE, JOYCE HOUSE CHESTNUT HILL, MA 02467	NONE PC	TO PRODUCE RESEARCH AND INFORM POLICY-MAKERS ABOUT THE ROLE THAT NON-TRADITIONAL JOBS PLAY FOR OLDER WORKERS	120,384.
BOSTON COLLEGE 140 COMMONWEALTH AVE, JOYCE HOUSE CHESTNUT HILL, MA 02467	NONE PC	TO EVALUATE OLDER WORKERS' VALUE TO EMPLOYERS AND TO INFORM POLICYMAKERS AS TO ANY POTENTIAL HURDLES TO WORKING LONGER THAT RETIREES WILL FACE	166,446.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BOSTON COLLEGE 140 COMMONWEALTH AVE, JOYCE HOUSE CHESTNUT HILL, MA 02467	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MASAYUKI WASA IN CHEMISTRY	70,000.
BOSTON UNIVERSITY 725 COMMONWEALTH AVENUE BOSTON, MA 02215	NONE PC	TO DEVELOP, EVALUATE, AND TRANSFER TO PRACTICE A ROBUST FRAMEWORK OF DISTRIBUTION LOCATIONAL MARGINAL PRICES THAT CAN IMPROVE EFFICIENCIES IN ELECTRICITY DISTRIBUTION	49,360.
BOSTON UNIVERSITY 725 COMMONWEALTH AVENUE BOSTON, MA 02215	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR A WORKSHOP TO EXAMINE THE ROLE OF SYSTEMS AND SYNTHETIC BIOLOGY (SSB) IN REDUCING ATMOSPHERIC CARBON DIOXIDE	29,068.
BOSTON UNIVERSITY 725 COMMONWEALTH AVENUE BOSTON, MA 02215	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR EMILY WHITING IN COMPUTER SCIENCE	70,000.
BOSTON UNIVERSITY 725 COMMONWEALTH AVENUE BOSTON, MA 02215	NONE PC	TO ORGANIZE A WORKSHOP ON INTEGRATING NEW ELECTRIC MOBILITY SYSTEMS WITH THE ELECTRIC GRID INFRASTRUCTURE	89,345.
BOULDER HOUSING COALITION PO BOX R BOULDER, CO 80306	NONE PC	TO MAKE ENERGY DATA OPENLY AVAILABLE AND EASILY ACCESSIBLE FOR RESEARCHERS BY EXPANDING THE PUBLIC UTILITY DATA LIBERATION (PUDL) PLATFORM	160,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BRANDEIS UNIVERSITY 415 SOUTH STREET, MS-062 WALTHAM, MA 02454-9110	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MARCELLE SOARES-SANTOS IN PHYSICS	70,000.
BRANDY SCHILLACE 324 EAST 218TH STREET EUCLID, OH 44123	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF MR. HUMBLE AND DR. BUTCHER TO BE PUBLISHED BY SIMON AND SHUSTER BY 2021	36,000.
BRICOLAGE PRODUCTION COMPANY 937 LIBERTY AVENUE PITTSBURGH, PA 15222	NONE PC	TO SUPPORT QUANTIFIED SELF, AN IMMERSIVE THEATER PIECE THAT INCORPORATES THE AUDIENCE'S PERSONAL DATA TO INCREASE UNDERSTANDING OF THE ETHICS OF COMPUTER SCIENCE AND DATA COLLECTION	50,000.
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO CONTINUE SUPPORTING THE PRODUCTION AND DISSEMINATION OF ACCESSIBLE, RELIABLE, AND INFLUENTIAL RESEARCH THROUGH THE BROOKINGS PAPERS ON ECONOMIC ACTIVITY	200,000.
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO DEVELOP AND JUSTIFY SPECIFIC, ACTIONABLE POLICY REFORMS TO ENCOURAGE INCREASED SAVING AND ENABLE LONGER WORKING LIVES, AS WELL AS TO IDENTIFY POLICY REFORMS TO ENABLE CONSUMERS TO HAVE GREATER ACCESS TO AND UNDERSTANDING OF RETIREMENT PRODUCTS IN THE PRIVATE MARKET	233,661.
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO ORGANIZE, STRUCTURE, AND SYNTHESIZE RESEARCH ON THE MEASUREMENT OF PRODUCTIVITY	496,589.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO CONTINUE SUPPORTING THE PRODUCTION AND DISSEMINATION OF HIGH-QUALITY, INFLUENTIAL, AND POLICY-ORIENTED ECONOMICS RESEARCH THROUGH THE BROOKINGS PAPERS ON ECONOMIC ACTIVITY	317,000.
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE SECOND SADIE T. M. ALEXANDER CONFERENCE FOR BLACK WOMEN IN ECONOMICS AND RELATED FIELDS, A PROFESSIONAL DEVELOPMENT EVENT FOR 200+ PARTICIPANTS IN FEBRUARY 2020	50,000.
BROWN UNIVERSITY 164 ANGELL STREET PROVIDENCE, RI 02912	NONE PC	TO SUPPORT A SEMESTER-LONG PROGRAM ON "ILLUSTRATING MATHEMATICS," BRINGING TOGETHER ARTISTS AND MATHEMATICIANS WITH AN INTEREST IN ILLUSTRATING MATHEMATICS WITH COMPUTATIONAL TOOLS	50,000.
BROWN UNIVERSITY 164 ANGELL STREET PROVIDENCE, RI 02912	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR AMITAI SHENHAV IN NEUROSCIENCE	70,000.
BROWN UNIVERSITY 164 ANGELL STREET PROVIDENCE, RI 02912	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BRENDA M. RUBENSTEIN IN CHEMISTRY	70,000.
BROWN UNIVERSITY 164 ANGELL STREET PROVIDENCE, RI 02912	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR LORIN CRAWFORD IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BROWN UNIVERSITY 164 ANGELL STREET PROVIDENCE, RI 02912	NONE PC	TO DISSEMINATE RESEARCH FINDINGS FROM THE OIL CLIMATE INDEX	50,000.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	TO DEVELOP COMMUNITY BEST PRACTICES AND STANDARDS FOR DISCIPLINE-SPECIFIC SOFTWARE REGISTRIES AND REPOSITORIES	64,032.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	TO EXAMINE THE ROLE OF AUTOXIDATION IN INDOOR ENVIRONMENTS	203,151.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR PHILIP ISETT IN MATHEMATICS	70,000.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	TO SUPPORT AN INTERNATIONAL CONFERENCE ON THE HISTORY OF SCIENCE AT THE CALIFORNIA INSTITUTE OF TECHNOLOGY IN APRIL 2019	30,000.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MAKSYM RADZIWIILL IN MATHEMATICS, ORIGINALLY AWARDED TO MCGILL UNIVERSITY	53,122.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CALIFORNIA POLYTECHNIC STATE UNIVERSITY ONE GRAND AVENUE SAN LUIS OBISPO, CA 93407	NONE PC	TO DEVELOP SOFTWARE AND OTHER COMPUTATIONAL RESEARCH INFRASTRUCTURE FOR PROVIDING SAFE AND SECURE ACCESS TO SENSITIVE DATA	561,103.
CANADIAN INSTITUTE FOR ADVANCED RESEARCH 661 UNIVERSITY AVENUE SUITE 505 TORONTO ONTARIO CANADA M5G 1M1	NONE PC	TO CONNECT CAUSAL INFERENCE CONSIDERATIONS WITH ADVANCED RESEARCH ON LEARNING IN MACHINES AND BRAINS BY SPONSORING AN INTERDISCIPLINARY CONFERENCE AND A SERIES OF SMALL CATALYST GRANTS	237,500.
CANDID 32 OLD SLIP, 24TH FLOOR NEW YORK, NY 10005-3500	NONE PC	TO SUPPORT WORK ON BEHALF OF THE NONPROFIT AND CHARITABLE COMMUNITY	85,000.
CARL ERIK FISHER 483 WASHINGTON AVENUE, 6B BROOKLYN, NY 11238	NONE I	TO SUPPORT OVER THE DARK EDGE, A BOOK ON THE SCIENTIFIC, CULTURAL, INTELLECTUAL, AND PHILOSOPHICAL HISTORY OF ADDICTION, TO BE PUBLISHED BY PENGUIN PRESS IN 2020	50,000.
CARNEGIE INSTITUTION OF WASHINGTON 1530 P STREET, N.W. WASHINGTON, DC 20005	NONE PC	TO SUPPORT THE SECRETARIAT OF THE DEEP CARBON OBSERVATORY TO BRING THE PROGRAM TO EFFECTIVE CLOSURE AND ASSURE ITS LEGACIES	1,000,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	100,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO ANALYZE THE CHALLENGES AND OPPORTUNITIES ASSOCIATED WITH UPGRADING AND TRANSFORMING HIGH VOLTAGE TRANSMISSION LINES AS COMPARED WITH SITING NEW TRANSMISSION INFRASTRUCTURE	65,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO ORGANIZE A WORKSHOP THAT WILL ASSESS THE PROSPECTS FOR FORMING A NATIONAL CONSORTIUM OF UNIVERSITY ENERGY INSTITUTES AND RESEARCH CENTERS	45,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR HOSEIN MOHIMANI IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	70,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR FLORIAN FRICK IN MATHEMATICS	70,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BERNHARD HAEUPLER IN COMPUTER SCIENCE	70,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO SUPPORT THE ORCHESTRAL DEBUT OF AND RELATED MATERIALS FOR "CASOP: A REQUIEM FOR RICE," A CONTEMPORARY CLASSICAL MUSICAL PIECE ABOUT THE ENSLAVEMENT OF BLACK PEOPLE IN THE SOUTH CAROLINA AND GEORGIA LOWCOUNTRY AND THE UNDERAPPRECIATED EXPLOITATION OF THEIR TECHNOLOGIES FOR GROWING RICE	125,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO SUPPORT DR. VENKAT VISWANATHAN IN UNDERTAKING A COLLABORATIVE RESEARCH PROJECT ON LITHIUM BATTERY PERFORMANCE, RESULTING FROM THE 2018 SCIALOG CONFERENCE ON ADVANCED ENERGY STORAGE	36,666.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO STUDY THE ECONOMICS AND MAINTENANCE OF DIGITAL INFRASTRUCTURE BY TESTING THE IMPACT OF NON-FINANCIAL AND REPUTATIONAL INCENTIVES ON OPEN SOURCE PARTICIPATION	49,500.
CENTER FOR INNOVATIVE GOVERNANCE 636 NEWTON PL NW, SUITE 206 WASHINGTON, DC 20010	NONE PC	TO FUND STUDENT SCHOLARSHIPS FOR PARTICIPATION IN A CONFERENCE ON THE ECONOMIC IMPLICATIONS OF MECHANISM DESIGN AND OTHER MARKET-BASED ORGANIZATIONAL INNOVATIONS	20,000.
CENTER FOR OPEN SCIENCE 210 RIDGE MCINTIRE ROAD, SUITE 500 CHARLOTTESVILLE, VA 22903	NONE PC	TO IMPLEMENT AND TEST FEATURES TO SIGNAL CREDIBILITY AND TRUST ON PREPRINT SERVICES	252,188.
CENTER FOR STRATEGIC AND INTERNATIONAL STUDIES 1616 RHODE ISLAND AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO SUPPORT THE RESEARCH AND WRITING OF CHINA'S ROAD, A BOOK ON THE TECHNOLOGY AT THE CENTER OF CHINA'S BELT AND ROAD INITIATIVE, TO BE PUBLISHED BY YALE UNIVERSITY PRESS IN 2020	30,000.
CENTER FOR STRATEGIC AND INTERNATIONAL STUDIES 1616 RHODE ISLAND AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO SUPPORT TWO ANNUAL ENERGY FUTURES FORUMS IN IDENTIFYING AND EVALUATING KEY ENERGY ECONOMICS, POLICY, AND TECHNOLOGY TRENDS	50,000.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CHARLES SEIFE 2 WASHINGTON SQ. VLG #2R NEW YORK, NY 10012	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF A NON-HAGIOGRAPHIC BIOGRAPHY OF STEPHEN HAWKING, PUBLISHED BY BASIC BOOKS BY 2022	23,275.
CHICAGO PUBLIC MEDIA, INC. 848 E. GRAND AVE, NAVY PIER CHICAGO, IL 60611	NONE PC	TO SUPPORT SCIENCE-AND-TECHNOLOGY-THEMED EPISODES ON THE NERDETTE PODCAST	30,000.
CITY COLLEGE OF NEW YORK - CUNY CONVENT AVENUE AT 138TH STREET NEW YORK, NY 10031	NONE PC	TO DEVELOP AN OPEN SOURCE FRAMEWORK FOR PROTOTYPING 3D SCIENTIFIC VISUALIZATION APPLICATIONS USING GAME ENGINES	125,000.
CIVIC HALL LABS 118 WEST 22ND STREET, 12A NEW YORK, NY 10011	NONE PC	TO STRENGTHEN THE DIGITAL SKILLS OF CIVIC AND SOCIAL ORGANIZATIONS IN NEW YORK CITY	250,000.
CODE FOR SCIENCE AND SOCIETY 1221 SE 34TH AVE. PORTLAND, OR 97214	NONE PC	TO FURTHER SUPPORT THE DEVELOPMENT AND ADOPTION OF A COMMUNITY PLATFORM FOR PREPRINT REVIEW	197,225.
CODE FOR SCIENCE AND SOCIETY 1221 SE 34TH AVE. PORTLAND, OR 97214	NONE PC	TO ESTABLISH A NETWORK AIMED AT INTEGRATING AND EXPANDING OPEN INFRASTRUCTURE INITIATIVES	50,000.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COLD SPRING HARBOR LABORATORY ONE BUNGTOWN ROAD COLD SPRING HARBOR, NY 11724	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DAVID MCCANDLISH IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	70,000.
COLLEGE OF WILLIAM AND MARY P.O. BOX 8795 WILLIAMSBURG, VA 23187-8795	NONE GOV	TO DISSEMINATE KEY RESULTS FROM THE CHEMISTRY OF INDOOR ENVIRONMENTS AND MICROBIOLOGY OF THE BUILT ENVIRONMENT PROGRAMS AT THE 2019 AMERICAN ASSOCIATION FOR AEROSOL RESEARCH (AAAR) MEETING	29,220.
COLORADO SCHOOL OF MINES 1500 ILLINOIS STREET GOLDEN, CO 80401	NONE GOV	TO CONTINUE A SUMMER SCHOOL TRAINING PROGRAM THAT PROVIDES EARLY CAREER ECONOMISTS AND SOCIAL SCIENTISTS WITH AN UNDERSTANDING OF TECHNOLOGICAL DIMENSIONS OF ELECTRICITY DISTRIBUTION SYSTEMS	92,601.
COLORADO SCHOOL OF MINES 1500 ILLINOIS STREET GOLDEN, CO 80401	NONE GOV	TO PROVIDE PROGRAMMATIC AND ADMINISTRATIVE SUPPORT FOR A NEW MULTIDISCIPLINARY DOCTORAL TRAINING PROGRAM IN ADVANCED ENERGY SYSTEMS	425,000.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO SUPPORT THE COLUMBIA ENERGY EXCHANGE PODCAST SERIES TO DISSEMINATE INFORMATION AND DEEPEN DIALOGUE AROUND ENERGY AND ENVIRONMENT ISSUES	50,000.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO CONTINUE THE ENERGY JOURNALISM INITIATIVE AND EDUCATE JOURNALISTS ON RECENT RESEARCH TOPICS AND KEY FINDINGS RELATED TO ENERGY ECONOMICS, POLICY, SECURITY, AND TECHNOLOGY	115,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO DEVELOP A GLOBAL, SCALABLE, AND SUSTAINABLE TECHNICAL AND ORGANIZATIONAL INFRASTRUCTURE FOR PERSISTENT UNIQUE IDENTIFIERS OF PHYSICAL SCIENTIFIC SAMPLES	189,041.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO EXAMINE CARBON MINERALIZATION IN ROCK FORMATIONS FOR CARBON DIOXIDE REMOVAL FROM AIR AND FOR SOLID STORAGE	500,000.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO SUPPORT THE CONTINUED DEVELOPMENT, MAINTENANCE, AND DISSEMINATION OF THE PROBABILISTIC PROGRAMMING LANGUAGE STAN	241,512.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR FRANCESCO LIN IN MATHEMATICS, ORIGINALLY AWARDED TO PRINCETON UNIVERSITY	70,000.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO SUPPORT THE DEVELOPMENT OF A BRAIN-COMPUTER INTERFACE THAT GENERATES MUSIC WITHOUT PHYSICAL MOVEMENT AND A LIVE PUBLIC PERFORMANCE AND SEMINAR DEMONSTRATING THE TECHNOLOGY	20,000.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO ENCOURAGE THE NEXT GENERATION OF FILMMAKERS TO WRITE SCREENPLAYS AND PRODUCE SHORT FILMS ABOUT SCIENCE AND TECHNOLOGY THROUGH ENHANCED RESEARCH, MENTORSHIP, AND AWARD OPPORTUNITIES	117,131.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TIMOTHY BERKELBACH IN CHEMISTRY, ORIGINALLY AWARDED TO THE UNIVERSITY OF CHICAGO	65,000.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MELISSA NESS IN PHYSICS	70,000.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR LORENZO SIRONI IN PHYSICS	70,000.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANDRES BENDESKY IN NEUROSCIENCE	70,000.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO PLAN A PROFESSIONAL DEVELOPMENT COPYRIGHT EDUCATION INITIATIVE FOR LIBRARIANS AND OTHER CULTURAL HERITAGE PROFESSIONALS	34,804.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO DEVELOP AND VALIDATE NEW METHODS OF USING NATURAL LANGUAGE PROCESSING TO STUDY HOW SCIENTIFIC PUBLICATIONS INFORM PATENTABLE INNOVATIONS	20,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO SUPPORT DR. YUAN YANG IN UNDERTAKING A COLLABORATIVE RESEARCH PROJECT ON AQUEOUS FLOW BATTERIES, RESULTING FROM THE 2018 SCIALOG CONFERENCE ON ADVANCED ENERGY STORAGE	36,666.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO SUPPORT DR. LAUREN MARBELLA IN UNDERTAKING A COLLABORATIVE RESEARCH PROJECT ON LITHIUM BATTERY PERFORMANCE, RESULTING FROM THE 2018 SCIALOG CONFERENCE ON ADVANCED ENERGY STORAGE	36,666.
COMMUNITY INITIATIVES 1000 BROADWAY, SUITE 480 OAKLAND, CA 94607	NONE PC	TO SUPPORT THE DEVELOPMENT OF DATA AND COMPUTATIONAL SKILLS TRAINING CURRICULA IN IMAGE ANALYSIS, ECONOMICS, AND CHEMISTRY	237,188.
COMMUNITY INITIATIVES 1000 BROADWAY, SUITE 480 OAKLAND, CA 94607	NONE PC	TO SUPPORT IN-PERSON MEETINGS OF THE CARPENTRIES COMMUNITY TO ADVANCE STRATEGIC PLANNING, COMMUNITY BUILDING AND LEADERSHIP, SKILLS SHARING, AND PLANS FOR REACHING NEW COMMUNITIES	49,710.
CONSUMER REPORTS, INC. 101 TRUMAN AVENUE YONKERS, NY 10703	NONE PC	TO RESEARCH CONSUMER ATTITUDES ON DIGITAL PRIVACY, CONVENE EXPERTS AND TEST TECHNOLOGY PLATFORMS ON THEIR PRIVACY PRACTICES, AND EDUCATE CONSUMERS ABOUT DIGITAL PRIVACY AND SECURITY	171,039.
CONSUMER REPORTS, INC. 101 TRUMAN AVENUE YONKERS, NY 10703	NONE PC	TO BUILD AND APPLY TOOLS AND RESEARCH METHODOLOGIES TO MAP THE COLLECTION, MANIPULATION, AND SHARING OF CONSUMER DATA ACROSS THREE INDUSTRIES-IOT, AUTOMOTIVE, AND DATA BROKERS-AND PROVIDE CONSUMERS WITH INFORMATION TO PROTECT THEIR PRIVACY AND SECURITY	501,250.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CONSUMER REPORTS, INC. 101 TRUMAN AVENUE YONKERS, NY 10703	NONE PC	TO SUPPORT SEGMENTS ON DIGITAL PRIVACY ON THE NATIONALLY BROADCAST TELEVISION SHOW CONSUMER 101	300,000.
COOLIDGE CORNER THEATRE FOUNDATION 290 HARVARD STREET BROOKLINE, MA 02446	NONE PC	TO SUSTAIN AND EXPAND THE NATIONAL SCIENCE ON SCREEN PROGRAM, WITH A FOCUS ON ENHANCED WEB AND SOCIAL MEDIA PROMOTION	191,000.
COOLIDGE CORNER THEATRE FOUNDATION 290 HARVARD STREET BROOKLINE, MA 02446	NONE PC	TO SUSTAIN AND EXPAND THE NATIONAL SCIENCE ON SCREEN PROGRAM TO ALL 50 STATES, WITH A FOCUS ON EXTENDING ITS REACH TO IN-PERSON AUDIENCES	385,600.
COOPER UNION FOR THE ADVANCEMENT OF SCIENCE & ART 30 COOPER SQUARE, 8TH FLOOR NEW YORK, NY 10003	NONE PC	TO PROVIDE RENEWED SUPPORT FOR STEM SATURDAYS	125,000.
CORNELL UNIVERSITY 373 PINE TREE ROAD ITHACA, NY 14850-2820	NONE PC	TO SUPPORT A CONFERENCE ON RESEARCH USING LINKED EMPLOYER-EMPLOYEE DATA TO STUDY LABOR MARKETS AND DISSEMINATE THESE INSIGHTS TO THE WIDER ECONOMICS COMMUNITY	20,000.
CORNELL UNIVERSITY 373 PINE TREE ROAD ITHACA, NY 14850-2820	NONE PC	TO RESEARCH THE EFFECT OF FRANCHISING ON THE LABOR MARKET OUTCOMES OF MANAGERS AND FRONTLINE EMPLOYEES	96,927.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CORNELL UNIVERSITY 373 PINE TREE ROAD ITHACA, NY 14850-2820	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KATHRYN MANN IN MATHEMATICS, ORIGINALLY AWARDED TO BROWN UNIVERSITY	70,000.
CORNELL UNIVERSITY 373 PINE TREE ROAD ITHACA, NY 14850-2820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JEREMY BASKIN IN CHEMISTRY	70,000.
CORNELL UNIVERSITY 373 PINE TREE ROAD ITHACA, NY 14850-2820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BRAD RAMSHAW IN PHYSICS	70,000.
CORNELL UNIVERSITY 373 PINE TREE ROAD ITHACA, NY 14850-2820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SONG LIN IN CHEMISTRY	70,000.
CORNELL UNIVERSITY 373 PINE TREE ROAD ITHACA, NY 14850-2820	NONE PC	TO ENHANCE THE TRANSPARENCY, REPRODUCIBILITY, AND REPLICABILITY OF EMPIRICAL RESEARCH IN THE SOCIAL SCIENCES BY SIMPLIFYING HOW AUTHORS CAN, WHEN SUBMITTING A PAPER TO A JOURNAL, ALSO PROVIDE STRUCTURED METADATA ABOUT THE PROVENANCE AND ARCHIVING OF CODE, DATA, AND OTHER SUPPLEMENTARY MATERIALS	50,000.
COUNCIL FOR ECONOMIC EDUCATION 122 EAST 42ND STREET, SUITE 2600 NEW YORK, NY 10168	NONE PC	TO PROMOTE ECONOMICS EDUCATION IN METROPOLITAN NEW YORK HIGH SCHOOLS BY RECOGNIZING INNOVATIVE TEACHERS, PROMOTING SUCCESSFUL PEDAGOGIES, AND MOTIVATING DIVERSE STUDENTS	238,846.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COUNCIL OF GRADUATE SCHOOLS ONE DUPONT CIRCLE, NW, SUITE 230 WASHINGTON, DC 20036-1173	NONE PC	TO ADDRESS A GAP IN THE STEM COMMUNITY'S UNDERSTANDING OF GRADUATE STUDENT MENTAL HEALTH AND WELLNESS THAT CREATES SPECIAL BARRIERS TO DEGREE COMPLETION AND SUCCESS FOR UNDERREPRESENTED MINORITIES	157,881.
COUNCIL OF PROFESSIONAL ASSOC. ON FED. STATISTICS 2221 SOUTH CLARK STREET ALEXANDRIA, VA 22202	NONE PC	TO HOLD AN INTERDISCIPLINARY WORKSHOP ON NEW OPPORTUNITIES AND GUIDELINES CONCERNING HOW FEDERAL STATISTICS CAN SAFELY SHARE DATA WITH ONE ANOTHER, WITH RESEARCHERS, AND WITH THE PUBLIC	29,637.
COUNCIL ON LIBRARY AND INFORMATION RESOURCES 1707 L STREET NW, SUITE 650 WASHINGTON, DC 20036-2124	NONE PC	TO IMPROVE DATA MANAGEMENT PRACTICES IN ENERGY ECONOMICS AND POLICY ANALYSIS RESEARCH THROUGH A POSTDOCTORAL FELLOWSHIP PROGRAM IN DATA CURATION FOR ENERGY ECONOMICS	100,000.
COUNCIL ON LIBRARY AND INFORMATION RESOURCES 1707 L STREET NW, SUITE 650 WASHINGTON, DC 20036-2124	NONE PC	TO SUPPORT DATA AND SOFTWARE CURATION POSTDOCTORAL FELLOWSHIPS, IN ORDER TO DEVELOP EMERGING LEADERS IN THE FIELD AND BUILD CAPACITY WITHIN ACADEMIC LIBRARIES	200,000.
COUNCIL ON LIBRARY AND INFORMATION RESOURCES 1707 L STREET NW, SUITE 650 WASHINGTON, DC 20036-2124	NONE PC	TO SUPPORT A SECOND COHORT OF POSTDOCTORAL FELLOWS IN DATA CURATION FOR ENERGY ECONOMICS AT THREE LEADING ENERGY RESEARCH CENTERS	300,321.
DAN LEVITT 212 FAYERWEATHER STREET CAMBRIDGE, MA 02138	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF "WHAT'S GOTTEN INTO YOU: A HISTORY OF YOUR BODY FROM THE BIG BANG THROUGH LAST NIGHT'S DINNER," PUBLISHED BY FLATIRON PRESS IN 2020	30,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
DANIEL J. KEVLES 11 FIFTH AVENUE, APT. 11U NEW YORK, NY 10003	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF VITAL PROPERTIES, A BOOK ABOUT THE HISTORY OF INNOVATION AND INTELLECTUAL PROPERTY PROTECTION IN LIVING ORGANISMS, TO BE PUBLISHED BY ALFRED A. KNOPF IN 2020	25,500.
DATA & SOCIETY RESEARCH INSTITUTE 36 WEST 20TH STREET, 11TH FLOOR NEW YORK, NY 10011	NONE PC	TO BETTER UNDERSTAND WAYS THAT THE LEGITIMACY OF DATA CAN BE CALLED INTO QUESTION THROUGH HISTORICAL CASE STUDIES OF THE US CENSUS	225,000.
DATA FOUNDATION 1003 K ST NW, SUITE 200 WASHINGTON, DC 20001	NONE PC	TO SUPPORT PLANS TO IMPROVE GOVERNMENT ADMINISTRATIVE DATA LINKAGES THAT WOULD ENHANCE SOCIAL SCIENCE RESEARCH	50,000.
DECISION SCIENCE RESEARCH INSTITUTE, INC. 1201 OAK STREET, SUITE 200 EUGENE, OR 97401	NONE PC	TO CONDUCT SURVEYS, MEASUREMENTS, AND BEHAVIORAL EXPERIMENTS ABOUT PUBLIC PERCEPTIONS OF RISK USING NEW METHODS AND TECHNOLOGIES	313,139.
DIGITAL PUBLIC LIBRARY OF AMERICA, INC. P.O. BOX 426038 CAMBRIDGE, MA 02142	NONE PC	TO DEVELOP INFRASTRUCTURE FOR THE INGESTION OF DATA FROM NATIONAL AGGREGATORS INTO WIKIMEDIA COMMONS USING CONTENT FROM THE DIGITAL PUBLIC LIBRARY OF AMERICA IN A PILOT EFFORT	165,633.
DIGITAL PUBLIC LIBRARY OF AMERICA, INC. P.O. BOX 426038 CAMBRIDGE, MA 02142	NONE PC	TO CONTINUE THE GROWTH OF DPLA EXCHANGE FOR ENHANCED EBOOK ACCESS BY THOUSANDS OF LIBRARIES WHILE DEVELOPING AN ONGOING REVENUE STREAM FOR DPLA'S FUTURE	800,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
DOCUMENTARY EDUCATIONAL RESOURCES 101 MORSE STREET WATERTOWN, MA 02472	NONE PC	TO SUPPORT TWO RADIO DOCUMENTARIES ON THE EVOLVING ROLE OF LIBRARIES AND LIBRARY TECHNOLOGY AS PART OF THE HUMANKIND PUBLIC RADIO SERIES	150,774.
DREXEL UNIVERSITY 3141 CHESTNUT ST PHILADELPHIA, PA 19104	NONE PC	TO EXAMINE THE CHEMICAL AND PHYSICAL TRANSFORMATIONS OCCURRING WITHIN A HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) SYSTEM	186,839.
DRYAD P.O. BOX 585 DURHAM, NC 27702	NONE PC	TO SUPPORT THE INTEGRATION OF BOTH COMMUNITY AND TECHNOLOGY INITIATIVES IN A CENTRAL DATA CURATION HUB FOR BOTH RESEARCHERS AND INSTITUTIONS	158,979.
DUKE UNIVERSITY 124 SCIENCE DRIVE DURHAM, NC 27701	NONE PC	TO LAUNCH AN INTERNATIONAL SUMMER SCHOOL ON COMPUTATIONAL SOCIAL SCIENCE	206,873.
DUKE UNIVERSITY 124 SCIENCE DRIVE DURHAM, NC 27701	NONE PC	TO EXPAND AND BOLSTER INTERNATIONALLY LINKED SUMMER INSTITUTES ON COMPUTATIONAL SOCIAL SCIENCE FOR EARLY-CAREER RESEARCHERS	200,985.
DUKE UNIVERSITY 124 SCIENCE DRIVE DURHAM, NC 27701	NONE PC	TO DEVELOP AND TEST ALGORITHMS BASED ON BAYESIAN AND MACHINE LEARNING TECHNIQUES FOR EFFICIENT ENTITY RESOLUTION WHEN LINKING DATASETS	249,909.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
DUKE UNIVERSITY 124 SCIENCE DRIVE DURHAM, NC 27701	NONE PC	TO ESTABLISH A MULTIDISCIPLINARY RESEARCH COLLABORATION STUDYING THE ROLE OF REGIONAL TRANSMISSION ORGANIZATIONS AND INDEPENDENT SYSTEMS OPERATORS IN ELECTRICITY MARKETS	250,000.
DUKE UNIVERSITY 124 SCIENCE DRIVE DURHAM, NC 27701	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR XIUYUAN CHENG IN MATHEMATICS	70,000.
DUKE UNIVERSITY 124 SCIENCE DRIVE DURHAM, NC 27701	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR RONG GE IN COMPUTER SCIENCE	70,000.
EDUCOPIA INSTITUTE 235 PEACHTREE ST. NE, STE. 400 ATLANTA, GA 30303	NONE PC	TO PARTIALLY SUPPORT A CONFERENCE ON THE SUBJECT OF MAINTENANCE ACROSS RESEARCH, POLICY, AND PRACTICE	45,824.
ELIZABETH KOLBERT 326 OBLONG ROAD WILLIAMSTOWN, MA 01267	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF A BOOK ON TECHNOLOGIES AND STRATEGIES TO OVERCOME HUMAN IMPACT ON THE ENVIRONMENT	20,000.
EMORY UNIVERSITY 201 DOWMAN DRIVE ATLANTA, GA 30322	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CHETHAN PANDARINATH IN NEUROSCIENCE	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ENSEMBLE STUDIO THEATRE, INC. 545 WEST 52ND STREET NEW YORK, NY 10019	NONE PC	TO COMMISSION, DEVELOP, PRODUCE AND DISSEMINATE NEW SCIENCE PLAYS IN NEW YORK AND ACROSS THE COUNTRY	640,000.
ENSEMBLE STUDIO THEATRE, INC. 545 WEST 52ND STREET NEW YORK, NY 10019	NONE PC	TO EXTEND THE RUN OF THE SLOAN-COMMISSIONED HIT PLAY BEHIND THE SHEET FOR FOUR WEEKS AT EST	150,000.
ENVIRONMENTAL DEFENSE FUND INC. 257 PARK AVENUE SOUTH NEW YORK, NY 10010	NONE PC	TO UNDERSTAND THE ECONOMIC AND ENVIRONMENTAL IMPACTS OF COST-REFLECTIVE ELECTRICITY PRICING SCHEMES RELATED TO DISTRIBUTED ENERGY RESOURCES DEPLOYMENT	150,000.
ENVIRONMENTAL DEFENSE FUND INC. 257 PARK AVENUE SOUTH NEW YORK, NY 10010	NONE PC	TO PROVIDE FINAL SUPPORT FOR A TRAINING AND NETWORKING PROGRAM FOR EARLY-CAREER ENERGY AND ENVIRONMENT PROFESSIONALS CONDUCTING ECONOMIC AND SCIENTIFIC RESEARCH IN APPLIED SETTINGS	300,000.
ENVIRONMENTAL LAW INSTITUTE 1730 M STREET, NW, SUITE 700 WASHINGTON, DC 20036	NONE PC	TO GENERATE NOVEL, MULTI-DISCIPLINARY RESEARCH TO INCREASE UNDERSTANDING OF THE ENERGY AND ENVIRONMENTAL IMPACTS OF THE DIGITAL ECONOMY, WITH A FOCUS ON SHARING PLATFORMS, ARTIFICIAL INTELLIGENCE, AND BLOCKCHAIN TECHNOLOGIES	150,000.
FAIRFIELD UNIVERSITY 1073 NORTH BENSON ROAD FAIRFIELD, CT 06824	NONE PC	TO SUPPORT THE RESEARCH AND WRITING OF A BOOK ABOUT THE THALIDOMIDE SCANDAL OF THE 1960S TO BE PUBLISHED BY RANDOM HOUSE IN 2020	25,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FILM INDEPENDENT, INC. 5670 WILSHIRE BLVD., 9TH FLOOR LOS ANGELES, CA 90036	NONE PC	TO PROVIDE DIRECT SUPPORT TO DEVELOP AND DISTRIBUTE SCIENCE AND TECHNOLOGY SCRIPTS, TELEPLAYS, AND FILMS	200,000.
FLINT CULTURAL CENTER CORPORATION 601 E. SECOND STREET FLINT, MI 48503	NONE PC	TO SUPPORT THE SCIENCE DISCOVERY HALL AT THE SLOAN MUSEUM OF DISCOVERY IN FLINT, MICHIGAN, AND TO ADVANCE PUBLIC UNDERSTANDING OF SCIENCE TO AN UNDERSERVED POPULATION	200,000.
FOOD & ENVIRONMENT REPORTING NETWORK 576 FIFTH AVENUE, SUITE 903 NEW YORK, NY 10036	NONE PC	TO SUPPORT IMMERSIVE SCIENCE STORYTELLING ON THE GASTROPOD PODCAST AND A DIVERSITY EVALUATION AND IMPLEMENTATION PLAN	30,000.
FOOD & ENVIRONMENT REPORTING NETWORK 576 FIFTH AVENUE, SUITE 903 NEW YORK, NY 10036	NONE PC	TO SUPPORT IMMERSIVE SCIENCE STORYTELLING ON FOOD AND AGRICULTURE VIA THE AWARD-WINNING, FEMALE-HOSTED GASTROPOD PODCAST	86,000.
FORCE11 4322 HORTENSIA STREET SAN DIEGO, CA 92103	NONE PC	TO PARTIALLY SUPPORT THE 2019 FUTURE OF RESEARCH COMMUNICATION AND E-SCHOLARSHIP CONFERENCE	20,000.
FORDHAM UNIVERSITY ROSE HILL CAMPUS, 441 E. FORDHAM ROAD BRONX, NY 10458	NONE PC	TO SUPPORT A GLOBAL SUMMIT ON ANTHROPOLOGICAL CONTRIBUTIONS TO RESEARCH ON BUSINESS AND ECONOMICS	7,500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FOUNDATION FOR INDEPENDENT ARTISTS, INC. 75 BROAD STREET, SUITE 304 NEW YORK, NY 10004	NONE PC	TO SUPPORT TWO PRODUCTIONS OF "DIFFERENTIAL COHOMOLOGY, DANCE OF THE DIAGRAM," A MATH-BASED DANCE PERFORMANCE	70,328.
FPF EDUCATION AND INNOVATION FOUNDATION 1400 EYE STREET NW, SUITE 450 WASHINGTON, DC 20005	NONE PC	TO LAUNCH THE CORPORATE-ACADEMIC DATA STEWARDSHIP RESEARCH ALLIANCE, A PRIVATE COMPANY PEER-TO-PEER NETWORK TO ACCELERATE PRIVACY PROTECTIVE SHARING OF ADMINISTRATIVE DATA BETWEEN BUSINESSES AND ACADEMIC RESEARCHERS	329,880.
FRACTURED ATLAS, INC. 248 W. 35TH ST, 10TH FL NEW YORK, NY 10001	NONE PC	TO INCORPORATE SCIENTIFIC FINDINGS FROM HOMECEM INTO THE TV SHOW "HOME DIAGNOSIS"	50,000.
FRED NADIS 1019 QUINIENTOS STREET, APT. 3 SANTA BARBARA, CA 93103	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF STAR SETTLERS, A BOOK ABOUT SPACE EXPLORATION AND COLONIZATION, TO BE PUBLISHED BY PEGASUS BOOKS IN 2021	37,500.
FUND FOR THE CITY OF NEW YORK 121 AVENUE OF THE AMERICAS, 6TH FLOOR NEW YORK, NY 10013	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE SLOAN PUBLIC SERVICE AWARDS PROGRAM	270,000.
FUND FOR THE CITY OF NEW YORK 121 AVENUE OF THE AMERICAS, 6TH FLOOR NEW YORK, NY 10013	NONE PC	TO PROVIDE RENEWED SUPPORT FOR THE SLOAN AWARDS FOR EXCELLENCE IN TEACHING MATHEMATICS AND SCIENCE IN NEW YORK CITY PUBLIC HIGH SCHOOLS	285,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FUND FOR THE CITY OF NEW YORK 121 AVENUE OF THE AMERICAS, 6TH FLOOR NEW YORK, NY 10013	NONE PC	TO IMPROVE LOCAL DECISION-MAKING BY CONTINUING TO BUILD TECHNICAL CAPACITY IN NYC BOROUGH PRESIDENT OFFICES AND COMMUNITY BOARDS	175,000.
GEORGE WASHINGTON UNIVERSITY 2023 G ST. NW, LISNER 340 WASHINGTON, DC 20052	NONE PC	TO EXAMINE COMMUNITY CHOICE AGGREGATION PROGRAMS, WITH A FOCUS ON STUDYING THE FACTORS THAT CONTRIBUTE TO THE ADOPTION OF COMMUNITY SOLAR PROGRAMS	115,000.
GEORGE WASHINGTON UNIVERSITY 2023 G ST. NW, LISNER 340 WASHINGTON, DC 20052	NONE PC	TO DESIGN, VET, AND LAUNCH PLANS FOR FEDERAL AGENCIES AND PRIVATE DATA HOLDERS TO COOPERATE ON IMPROVING FEDERAL ECONOMIC STATISTICS	50,000.
GEORGETOWN UNIVERSITY 37TH & O STREET, NW WASHINGTON, DC 20057	NONE PC	TO SUPPORT TWO MULTIDISCIPLINARY WORKSHOPS AND RESEARCH ON DATA CO-OPS	31,300.
GEORGETOWN UNIVERSITY 37TH & O STREET, NW WASHINGTON, DC 20057	NONE PC	TO DEVELOP LINKAGE, DE-DUPLICATION, AND OTHER TOOLS THAT DEMONSTRATE HOW ADMINISTRATIVE DATA CAN IMPROVE THE ACCURACY OF DEMOGRAPHIC AND ECONOMIC RESEARCH	304,071.
GEORGIA INSTITUTE OF TECHNOLOGY 837 STATE STREET ATLANTA, GA 30332	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KONSTANTIN TIKHOMIROV IN MATHEMATICS	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
GEORGIA INSTITUTE OF TECHNOLOGY 837 STATE STREET ATLANTA, GA 30332	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR EVA DYER IN NEUROSCIENCE	70,000.
GEORGIA INSTITUTE OF TECHNOLOGY 837 STATE STREET ATLANTA, GA 30332	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MATTHEW MCDOWELL IN CHEMISTRY	70,000.
GREATER WASHINGTON EDU. TELECOM. ASSOC. INC. 3939 CAMPBELL AVE ARLINGTON, VA 22206	NONE PC	TO SUPPORT PRODUCTION AND OUTREACH FOR THE GENE: AN INTIMATE HISTORY, A THREE-HOUR DOCUMENTARY, BASED ON SIDDHARTHA MUKHERJEE'S BOOK, TO AIR NATIONALLY ON PBS PRIMETIME	500,000.
GREATER WASHINGTON EDU. TELECOM. ASSOC. INC. 3939 CAMPBELL AVE ARLINGTON, VA 22206	NONE PC	TO SUPPORT MAKING SENSE, PAUL SOLMAN'S ECONOMIC AND BUSINESS SEGMENTS ON PBS NEWSHOUR, AND RELATED ONLINE CONTENT	500,000.
GREATER WASHINGTON EDU. TELECOM. ASSOC. INC. 3939 CAMPBELL AVE ARLINGTON, VA 22206	NONE PC	TO PRODUCE A NINE-PART SERIES COVERING THE CHALLENGES FACED BY OLDER WORKERS WHO WANT OR NEED TO STAY ON THE JOB AND BY PROSPECTIVE EMPLOYERS	200,000.
HACKNY P.O. BOX 176 NEW YORK, NY 10276-0176	NONE PC	TO SUPPORT THE LOCAL NYC TECH STARTUP COMMUNITY THROUGH COMMUNITY EVENTS, HACKATHONS, AND SUMMER FELLOWSHIPS; AND TO HELP HACKNY DEVELOP AND EXECUTE ON NEW SUSTAINABILITY MODELS TO SUPPORT THESE ACTIVITIES IN THE FUTURE	198,950.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
HAMPTON UNIVERSITY 200 WILLIAM R. HARVEY WAY HAMPTON, VA 23668	NONE PC	TO FUND A COMPUTER SCIENCE ACADEMY FOR AFRICAN AMERICAN GIRLS (GRADE 8-11) WITH A TWO-WEEK SUMMER RESIDENTIAL CAMP AND ACADEMIC YEAR STUDENT ENGAGEMENT	50,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO DEVELOP BEHAVIORALLY INFORMED VERSIONS OF BASIC MACROECONOMIC MODELS	108,896.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO INCREASE BOTH THE NUMBER OF MINORITY STUDENTS ENTERING TOP PH.D. PROGRAMS IN ECONOMICS AND ECONOMICS-RELATED FIELDS AND THE DIVERSITY OF THE ECONOMICS FACULTIES AND WORK FORCE	300,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO SUPPORT RESEARCH THAT ADDRESSES HOW WORK CONDITIONS SHAPE OBSERVED EMPLOYMENT TRANSITIONS OF OLDER WORKERS AND HOW AGE AND EMPLOYMENT STATUS AFFECT PREFERENCES FOR WORKING CONDITIONS	104,534.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO DEVELOP A BETTER AND MORE COHESIVE UNDERSTANDING OF CURRENT AND FUTURE TRENDS IN AGING AND LABOR FORCE PARTICIPATION IN THE UNITED STATES AND TO IMPART THAT INFORMATION TO THE GENERAL PUBLIC	382,052.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO RENEW AN INTERDISCIPLINARY, POSTDOCTORAL TRAINING PROGRAM CALLED THE "SLOAN FELLOWSHIP ON AGING AND WORK" THAT ADDRESSES THE CHALLENGES OF AGING SOCIETIES AND LABOR FORCE PARTICIPATION	210,515.

ATTACHMENT 20



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO EXAMINE THE ROLE OF TECHNOLOGY AND KNOWLEDGE SPILLOVERS IN THE DEVELOPMENT OF NOVEL CLEAN ENERGY TECHNOLOGIES	140,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO IMPROVE THE ABILITY TO CURATE AND VERIFY REPLICATION DATASETS WITHIN THE DATAVERSE DATA ARCHIVING PLATFORM THROUGH A SUITE OF SOFTWARE CONTAINERIZATION AND METADATA TOOLS, AND TO SUPPORT THE DEVELOPMENT OF A NEW DATA CURATION SERVICE AT THE HARVARD DATAVERSE	252,709.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO DEVELOP NEW STATISTICAL METHODS THAT IMPROVE BOTH THE IDENTIFICATION OF CAUSAL EFFECTS IN OBSERVATIONAL STUDIES AS WELL AS THE GENERALIZABILITY OF RANDOMIZED EXPERIMENTS	108,608.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO FASHION FUNDAMENTAL CONCEPTS AND MODELS FOR BEHAVIORAL ECONOMICS BASED ON THEORIES OF CONTEXT-DEPENDENT CHOICE	86,695.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO REFINE AND PROMULGATE A DATA STANDARD FOR TIME-RELATED INFORMATION, IN ORDER TO LOWER BARRIERS TO THE CREATION OF FLEXIBLE ONLINE TIMELINES	110,338.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO SUPPORT THE FIFTH ANNUAL CONFERENCE ON BIG DATA AT THE HARVARD CENTER FOR MATHEMATICAL SCIENCES AND APPLICATIONS	20,000.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO SUPPORT RESEARCH ON THE EFFECTS OF A RANGE OF INSTITUTIONAL POLICIES AND PROGRAMS IN HIGHER EDUCATION ON FACULTY RETIREMENT DECISIONS	97,526.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO DEVELOP A ROBUST, TRUSTED, POPULAR, AND EXTENSIBLE LIBRARY OF OPEN-SOURCE SOFTWARE FOR PRIVACY-PROTECTING DATA ANALYSIS	442,419.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR WILL DOBBIE IN ECONOMICS, ORIGINALLY AWARDED TO PRINCETON UNIVERSITY	70,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CHRISTINA WOO IN CHEMISTRY	70,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NICHOLAS BELLONO IN NEUROSCIENCE	70,000.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO IMPROVE ACCESS TO AND PROVENANCE OF RESEARCH DATA, SOFTWARE, AND HARDWARE FROM CUBESAT MISSIONS	248,031.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO CONSTRUCT A QUANTITATIVE INDEX OF THE HEALTH AND SUSTAINABILITY OF OPEN SOURCE SOFTWARE PROJECTS USED IN ACADEMIA	116,290.
HARVARD UNIVERSITY 210 LONGWOOD AVE, ARMENISE 331A BOSTON, MA 02115	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR PO-RU LOH IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	70,000.
HVERFORD COLLEGE 370 W LANCASTER AVE HAVERFORD, PA 19041	NONE PC	TO TEACH MORE UNDERGRADUATE SOCIAL SCIENTISTS ABOUT INTEGRITY, TRANSPARENCY, AND REPRODUCIBILITY IN EMPIRICAL RESEARCH	102,246.
HOPEWELL FUND 1201 CONNECTICUT AVE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	TO PLAN AND PROTOTYPE AN END-TO-END MULTIPARTY SYSTEM FOR SHARING, LINKING, MODELING, AND ANALYZING SENSITIVE DATASETS WHILE PROTECTING THE PRIVACY OF EACH	248,360.
HOPEWELL FUND 1201 CONNECTICUT AVE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	TO ENABLE NETWORKS OF ACADEMIC DATA SCIENCE COMMUNITIES TO SHARE KNOWLEDGE, IDEAS, AND LESSONS LEARNED, THEREBY FACILITATING THE INSTITUTIONAL CHANGES NEEDED TO INTEGRATE DATA SCIENCE INTO UNIVERSITY RESEARCH AND TRAINING	500,000.
HUNTER COLLEGE FOUNDATION 695 PARK AVE, EAST BLDG., ROOM 1313 NEW YORK, NY 10065	NONE PC	TO SUPPORT 16 PERFORMANCES OF LINK LINK CIRCUS, A COMEDIC SCIENCE PLAY ON THE COGNITIVE ABILITIES OF ANIMALS, WRITTEN AND PERFORMED BY ACTRESS ISABELLA ROSSELLINI	27,292.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI ONE GUSTAV L LEVY PLACE, ANNENBERG 16-10 NEW YORK, NY 10029	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KANAKA RAJAN IN NEUROSCIENCE	70,000.
ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI ONE GUSTAV L LEVY PLACE, ANNENBERG 16-10 NEW YORK, NY 10029	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DANIEL WACKER IN NEUROSCIENCE	70,000.
INDIANA UNIVERSITY 150 SOUTH WOODLAWN BLOOMINGTON, IN 47405	NONE PC	TO EXAMINE RADICAL CONCENTRATIONS AND ASSOCIATED AEROSOL PRODUCTION IN INDOOR ENVIRONMENTS	266,458.
INDIANA UNIVERSITY 150 SOUTH WOODLAWN BLOOMINGTON, IN 47405	NONE PC	TO SUPPORT A WORKSHOP ON IMPROVING RIGOR, REPRODUCIBILITY, AND TRANSPARENCY IN SCIENCE	19,960.
INDUSTRIAL ORGANIZATIONAL SOCIETY, INC. NORTHEASTERN UNIVERSITY DEPT OF ECONOMICS, 301 LAKE HALL BOSTON, MA 02115-5000	NONE PC	TO SUPPORT GRADUATE STUDENT PRESENTATIONS AT THE INTERNATIONAL INDUSTRIAL ORGANIZATION CONFERENCE	22,000.
INFORMATION TECHNOLOGY AND INNOVATION FOUNDATION 1101 K ST., NW, SUITE 610 WASHINGTON, DC 20005	NONE PC	TO ORGANIZE A WEEK-LONG TRAINING PROGRAM THAT INTRODUCES EARLY CAREER RESEARCHERS TO THE PRACTICAL CONSIDERATIONS THAT SHAPE POLICY AND MANAGERIAL DECISIONS ABOUT ENERGY INNOVATION IN THE UNITED STATES	74,800.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
INNOVATIONS FOR POVERTY ACTION 101 WHITNEY AVENUE NEW HAVEN, CT 06510	NONE PC	TO STUDY THE BEHAVIORAL WELFARE ECONOMICS OF POTENTIAL INTERVENTIONS IN FOUR KINDS OF CRITICAL CONSUMER DECISIONS	140,365.
INSTITUTE OF INTERNATIONAL EDUCATION 809 UNITED NATIONS PLAZA NEW YORK, NY 10017	NONE PC	TO PROVIDE 25 LIFE-SAVING FELLOWSHIPS AND ACADEMIC PLACEMENTS FOR PERSECUTED SCHOLARS FROM AROUND THE WORLD OVER THREE YEARS	250,000.
ISLAND PRESS-CENTER FOR RESOURCE ECONOMICS 2000 M ST. NW, STE. 650 WASHINGTON, DC 20036	NONE PC	TO SUPPORT AN ILLUSTRATED EDITION OF BIOLOGIST E.O. WILSON'S AUTOBIOGRAPHY, NATURALIST, TO BE PUBLISHED BY ISLAND PRESS IN 2020	40,000.
JACOB BURNS FILM CENTER, INC. 405 MANVILLE ROAD PLEASANTVILLE, NY 10570	NONE PC	TO PRODUCE A FEATURE-LENGTH DOCUMENTARY ON THE BLUE BRAIN PROJECT TO BUILD A FULL-SCALE, SELF-AWARE SIMULATION OF THE HUMAN BRAIN	30,000.
JAIME GREENRING 500 ST. MARKS AVE, APT 311 BROOKLYN, NY 11238	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF "THE POSSIBILITY OF LIFE," PUBLISHED BY HANOVER SQUAREPRESS IN 2021	30,000.
JASON DEAREN 630 NE 6TH STREET GAINESVILLE, FL 32601	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF "KILL SHOT: THE RACE TO STOP A DEADLY DISEASE AND THE SHADOW INDUSTRY THAT UNLEASHED IT," PUBLISHED BY PENGUIN RANDOM HOUSE	50,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	TO FUND THE OPEN CHEMISTRY COLLABORATIVE IN DIVERSITY EQUITY (OXIDE) TO ADVANCE DIVERSITY AND INCLUSION, AND REDUCE DIVERSITY INEQUITIES THROUGHOUT THE ACADEMIC CAREER LADDER IN CHEMISTRY DEPARTMENTS NATIONWIDE	125,000.
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	TO DEVELOP A SPATIOTEMPORALLY DETAILED ENERGY SYSTEMS DATASET IN ORDER TO EXAMINE LAND USE REQUIREMENTS FOR DIFFERENT GENERATION TECHNOLOGIES	250,937.
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	TO SUPPORT THE RESEARCH AND WRITING OF UNIQUE, A BOOK ABOUT THE SCIENCE OF HUMAN INDIVIDUALITY, TO BE PUBLISHED BY BASIC BOOKS IN 2020	48,830.
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MUYINATU BELL IN PHYSICS	70,000.
JUST CAPITAL 44 EAST 30TH STREET, FLOOR 11 NEW YORK, NY 10016	NONE PC	TO ENGAGE COMPANIES IN EXPLORING THE RANGE OF IMPACTS OF OUTSOURCING ON THE U.S. WORKFORCE	150,000.
L.A. THEATRE WORKS 681 VENICE BOULEVARD VENICE, CA 90291	NONE PC	TO RECORD FOUR NEW SLOAN PLAYS FOR PUBLIC RADIO BROADCAST AND ONLINE STREAMING AND A 12-PLAY PODCAST WHILE DISSEMINATING 16 SCIENCE PLAYS TO MILLIONS OF PEOPLE AND THOUSANDS OF LIBRARIES AND SCHOOLS	200,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
LIBRARY FOUNDATION OF LOS ANGELES 630 WEST FIFTH STREET LOS ANGELES, CA 90071	NONE PC	TO SUPPORT A SERIES OF EVENTS AT THE LOS ANGELES PUBLIC LIBRARY THAT PAIRS LEADING SCIENTISTS AND THINKERS WITH TOP JOURNALISTS TO DISCUSS TIMELY TOPICS IN SCIENCE AND TECHNOLOGY	20,000.
MANHATTAN COLLEGE 4513 MANHATTAN COLLEGE PARKWAY BRONX, NY 10471	NONE PC	TO CONDUCT SUSTAINABILITY PLANNING ACTIVITIES FOR THE ENGAGING, EDUCATING, EMPOWERING MEANS CHANGE (E3MC) PROGRAM	30,000.
MANHATTAN THEATRE CLUB 311 WEST 43RD STREET, 8TH FLOOR NEW YORK, NY 10036	NONE PC	TO SUPPORT THE MTC/SLOAN INITIATIVE COMMISSIONING, DEVELOPING, AND PRODUCING NEW SCIENCE AND TECHNOLOGY PLAYS	216,667.
MANHATTAN THEATRE CLUB 311 WEST 43RD STREET, 8TH FLOOR NEW YORK, NY 10036	NONE PC	TO PROVIDE PRODUCTION SUPPORT FOR MANHATTAN CLUB THEATRE'S STAGING OF BESS WOHL'S SCIENCE-THEMED PLAY CONTINUITY	250,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO DEVELOP TOOLS THAT ARE COMPUTATIONALLY, ADMINISTRATIVELY, AND LEGALLY PRACTICAL FOR CONDUCTING PRIVACY PRESERVING RESEARCH ON SOCIAL SCIENCE DATASETS	218,954.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO STUDY R&D INVESTMENT LEVELS AND RETURNS IN THE CONTEXT OF CURRENT U.S. PRODUCTIVITY AND INNOVATION TRENDS	205,414.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO PRODUCE A COMPREHENSIVE, MULTIDISCIPLINARY FUTURE OF STORAGE STUDY THAT WILL CONSIDER THE ROLE KEY STORAGE TECHNOLOGIES MIGHT PLAY IN ELECTRICITY SYSTEMS OVER DIFFERENT TIME SCALES AND SERVICE REQUIREMENTS	468,399.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO PROMOTE THE RIGOROUS EMPIRICAL STUDY OF ECONOMIC ISSUES IN NORTH AMERICA BY HELPING RESEARCHERS DESIGN, PILOT, AND IMPLEMENT RANDOMIZED CONTROLLED TRIALS	616,362.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO DEVELOP A DEMONSTRATION PROJECT ON GENDER INCLUSION THROUGH STUDY OF THE CAREERS OF MIT SCIENCE AND ENGINEERING (S&E) FACULTY IN THE BIOTECH INNOVATION ECOSYSTEM FOR APPLICATION TO GENDERED PATTERNS OF S&E INNOVATION IN OTHER TECHNOLOGY SECTORS	175,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NIKHIL AGARWAL IN ECONOMICS	70,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DANIEL HARLOW IN PHYSICS	70,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR YUFEI ZHAO IN MATHEMATICS	70,000.

ATTACHMENT 20



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANDREW LAWRIE IN MATHEMATICS	70,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO IMPROVE POLICY-RELEVANT RESEARCH BY FACILITATING THE USE OF ADMINISTRATIVE DATA AMONG ECONOMISTS WHO DESIGN, RUN, AND ANALYZE RANDOMIZED CONTROLLED TRIALS	654,000.
MATHEMATICAL SCIENCES RESEARCH INSTITUTE 17 GAUSS WAY BERKELEY, CA 94720-5070	NONE PC	TO INCREASE THE NUMBER OF STUDENTS FROM UNDERREPRESENTED GROUPS IN MATHEMATICS GRADUATE PROGRAMS	151,500.
MATHEMATICAL SCIENCES RESEARCH INSTITUTE 17 GAUSS WAY BERKELEY, CA 94720-5070	NONE PC	TO SUPPORT THE 2019 AND 2021 NATIONAL MATH FESTIVALS, EVENTS THAT INCREASE THE APPRECIATION FOR MATHEMATICS AND MATHEMATICAL RESEARCH THROUGH THE ARTS, ENGAGING LECTURES, AND INTERACTIVE ACTIVITIES	250,000.
MAX PLANCK INSTITUTE FOR CHEMISTRY ADMINISTRATION HAHN-MEITNER-WEG 1 MAINZ GERMANY 55128	NONE NC	TO EXAMINE THE ROLE OF HUMANS AND HUMAN EMISSIONS IN INDOOR AIR CHEMISTRY	409,975.
MCGILL UNIVERSITY 3600 RUE UNIVERSITY, MONTREAL QUEBEC CANADA H3A 2T8	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ARJUN KRISHNASWAMY IN NEUROSCIENCE	70,000.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MICHELLE NIJHUIS P.O. BOX 2273 ALEXANDRIA, WA 98672	NONE I	TO SUPPORT THE RESEARCH, FACT-CHECKING, AND PROMOTION OF A BOOK ABOUT THE SPECIES CONSERVATION MOVEMENT TO BE PUBLISHED BY W.W. NORTON IN 2020	20,000.
MICHIGAN STATE UNIVERSITY 619 RED CEDAR ROAD EAST LANSING, MI 48824	NONE PC	TO ASSESS THE CHARACTERISTICS OF DIFFERENT RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL LOAD TYPES AS POTENTIAL DEMAND RESPONSE RESOURCES	200,000.
MIDDLEBURY COLLEGE 287 BICENTENNIAL WAY MIDDLEBURY, VT 05753	NONE PC	TO SUPPORT THE RESEARCH AND WRITING OF AN UPDATED VERSION OF THE 1993 SLOAN-SUPPORTED BOOK NUCLEAR CHOICES: A CITIZEN'S GUIDE TO NUCLEAR TECHNOLOGY TO BE PUBLISHED BY MIT PRESS	22,761.
MONTANA STATE UNIVERSITY, BOZEMAN 309 MONTANA HALL, PO BOX 172470 BOZEMAN, MT 59717	NONE GOV	TO SUPPORT A BOOK ON THE EVOLUTIONARY AND ECOLOGICAL SCIENCE UNDERLYING AGRICULTURE, ETERNAL HARVEST: AN EXTRAORDINARY BIOGRAPHY OF WHEAT, TO BE PUBLISHED BY UNIVERSITY OF CHICAGO PRESS	20,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO HEIGHTEN QUALITY, VIGOR, AND INNOVATION IN THE U.S. STEM ENTERPRISE BY INCREASING THE DIVERSITY OF INDIVIDUALS, RESEARCH TEAMS, AND LEADERSHIP THROUGH A CONSENSUS STUDY AND ONLINE RESOURCE GUIDE ON EFFECTIVE MENTORING PROGRAMS AND PRACTICES	100,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO SUSTAIN THE SCIENCE AND ENTERTAINMENT EXCHANGE AND THE ROLE OF SCIENCE AND SCIENCE CONSULTANTS IN HOLLYWOOD AND TO PROVIDE SCIENCE ADVISORS FOR THE SLOAN FILM PROGRAM	100,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO SUPPORT THE DEVELOPMENT OF A NOBEL PRIZE-LEVEL SCIENCE COMMUNICATION PRIZE AND ACTIVITIES AT THE ARTHUR M. SACKLER COLLOQUIUM ON MISINFORMATION, TO BE HELD APRIL 3 AND 4, 2019	18,994.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO REPORT ON HOW SOCIAL AND BEHAVIORAL INSIGHTS CAN IMPROVE THE RELIABILITY AND REPRODUCIBILITY OF SCIENTIFIC FINDINGS	120,595.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO CONVENE AN INTERNATIONAL WORKSHOP THAT WILL PLAN GLOBAL COOPERATION AND COORDINATION CONCERNING ARTIFICIAL INTELLIGENCE RESEARCH AND ITS APPLICATIONS	63,472.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO UNDERTAKE A CONSENSUS STUDY EXAMINING THE TECHNOLOGICAL, POLICY, AND SOCIETAL DIMENSIONS OF DEEP DECARBONIZATION EFFORTS IN THE UNITED STATES	100,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO SUPPORT A PLANNING MEETING FOR A CONSENSUS STUDY ON THE ENVIRONMENTAL HEALTH IMPLICATIONS OF EMERGING INDOOR CHEMISTRY RESEARCH	25,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO ORGANIZE A WORKSHOP EXAMINING THE BARRIERS AND OPPORTUNITIES FOR DEPLOYING DEEP DECARBONIZATION TECHNOLOGIES AT SCALE IN THE UNITED STATES	75,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO BROADLY DISSEMINATE TO VARIOUS STAKEHOLDERS THE NEW NATIONAL ACADEMIES REPORT, "MINORITY SERVING INSTITUTIONS: AMERICA'S UNDERUTILIZED RESOURCE FOR STRENGTHENING THE STEM WORKFORCE"	65,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO DEVELOP A SHARED VISION AND APPROACH FOR A COLLABORATION BETWEEN NASEM, OECD AND IAP TO UNDERSTAND THE IMPACT OF AI ON WORK BY ASSESSING AI AND ROBOTICS CAPABILITIES	25,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. 1432 DUKE STREET ALEXANDRIA, VA 22314	NONE PC	TO SUPPORT THE ALFRED P. SLOAN MINORITY PH.D. PROGRAM (MPHD) THROUGH PHASE 1 RENEWAL GRANTS FOR UNIVERSITY CENTERS OF EXEMPLARY MENTORING (UCEMS) AT CORNELL UNIVERSITY, GEORGIA INSTITUTE OF TECHNOLOGY, AND THE PENNSYLVANIA STATE UNIVERSITY	900,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. 1432 DUKE STREET ALEXANDRIA, VA 22314	NONE PC	TO SUPPORT A NEW ALFRED P. SLOAN MINORITY PH.D. (MPHD) UNIVERSITY CENTER OF EXEMPLARY MENTORING (UCEM) PROGRAM AT DUKE UNIVERSITY (COMBINING \$700,000 IN NEW FUNDING WITH \$300,000 IN UNSPENT NACME FUNDS)	150,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. 1432 DUKE STREET ALEXANDRIA, VA 22314	NONE PC	TO SUPPORT SCHOLARSHIPS AND PROGRAM EXPENSES FOR A THREE-YEAR RENEWAL OF A UNIVERSITY CENTER OF EXEMPLARY MENTORING (UCEM) AT THE UNIVERSITY OF SOUTH FLORIDA	150,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. 1432 DUKE STREET ALEXANDRIA, VA 22314	NONE PC	TO PROVIDE SCHOLARSHIP SUPPORT FOR THE SLOAN INDIGENOUS GRADUATE PARTNERSHIP (SIGP) ENABLING CONSORTIUM MEMBERS TO RECRUIT, SUPPORT, AND GRADUATE INDIGENOUS STUDENTS EARNING GRADUATE DEGREES IN STEM DISCIPLINES	400,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. 1432 DUKE STREET ALEXANDRIA, VA 22314	NONE PC	TO SUPPORT THE ALFRED P. SLOAN MINORITY PH.D. PROGRAM (MPHD) THROUGH PHASE 3 RENEWAL GRANTS FOR UNIVERSITY CENTERS OF EXEMPLARY MENTORING (UCEMS) AT MASSACHUSETTS INSTITUTE OF TECHNOLOGY, UNIVERSITY OF CALIFORNIA, SAN DIEGO AND THE UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	1,000,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. 1432 DUKE STREET ALEXANDRIA, VA 22314	NONE PC	TO SUPPORT GRADUATE STUDENT FELLOWSHIPS, MENTORING, AND RELATED ACTIVITIES AT THE UNIVERSITY CENTERS OF EXEMPLARY MENTORING (UCEM) AT CORNELL UNIVERSITY, GEORGIA INSTITUTE OF TECHNOLOGY, AND PENNSYLVANIA STATE UNIVERSITY, AS WELL AS GENERAL UCEM SUPPORT	800,000.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO EXAMINE THE LINK BETWEEN THE RECEDING RETIREMENT AGE OF OLDER WORKERS AND THE SHIFTS IN DEMAND FOR THESE WORKERS ASSOCIATED WITH THE EXPANSION OF ARTIFICIAL INTELLIGENCE AND ROBOTIC SUBSTITUTES	292,150.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO RENEW SUPPORT FOR A THREE-YEAR POSTDOCTORAL PROGRAM ON THE ECONOMICS OF THE AGING WORKFORCE	127,075.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO UNDERTAKE A RESEARCH PROJECT EXAMINING HOW MARKET FORCES, PUBLIC POLICIES, AND TECHNOLOGICAL CHANGE AFFECT ENERGY CONSUMPTION AND USE IN THE TRANSPORTATION SECTOR	100,000.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC.	NONE	TO COMPARE THE RETIREMENT PATHS OF PUBLIC AND PRIVATE EMPLOYEES, ASSESSING DIFFERENCES IN WORKING CONDITIONS, RETIREMENT BENEFITS, AND GOVERNMENT REGULATIONS AND IMPACTS ON THE AGE OF	155,661.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	PC	RETIREMENT FROM CAREER JOBS AND THE LIKELIHOOD OF POST-RETIREMENT WORK	
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO ORGANIZE AND SUPPORT INNOVATIVE RESEARCH ON THE ECONOMICS OF DIGITIZATION	194,000.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO CONTINUE SUPPORT FOR PREDOCTORAL RESEARCH AND TRAINING FELLOWSHIPS IN ENERGY ECONOMICS	300,000.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO SUPPORT A TWO-YEAR PHASE OF COLLABORATIVE STUDY ON FACILITATING WORK AT OLDER AGES	126,500.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO DEVELOP NEW DISSEMINATION CHANNELS FOR RIGOROUS, NONPARTISAN RESEARCH IN ENVIRONMENTAL AND ENERGY ECONOMICS THROUGH A NEW FORUMS FOR RESEARCH PRESENTATION AND PUBLICATION	100,000.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO SUPPORT RESEARCH AND DATA INFRASTRUCTURE CONCERNING THE ECONOMICS OF HOUSEHOLD FINANCE	142,226.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO FUND A FINAL GRANT TO SUPPORT THE NBER'S INTERNATIONAL SOCIAL SECURITY PROJECT	166,750.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THOUSANDS OF PARTICIPANTS IN OVER 50 PROGRAMS THAT COMPRISE THE SUMMER INSTITUTE RUN ANNUALLY BY THE NATIONAL BUREAU OF ECONOMIC RESEARCH	317,055.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO ADVANCE UNDERSTANDING OF THE ECONOMICS OF ENERGY TECHNOLOGY INNOVATION	246,946.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO GROW AND STRENGTHEN RESEARCH ON BEHAVIORAL MACROECONOMICS BY PROVIDING PRE-DOCTORAL FELLOWSHIP AND TRAINING SUPPORT TO EARLY-CAREER SCHOLARS IN THIS FIELD	179,371.
NATIONAL COUNCIL FOR SCIENCE AND THE ENVIRONMENT 740 15TH STREET NW, SUITE 900 WASHINGTON, DC 20005	NONE PC	TO SUPPORT THE 2020 ANNUAL CONFERENCE: SCIENCE IN ENVIRONMENTAL DECISION-MAKING	36,000.
NATIONAL PUBLIC RADIO, INC. 1111 NORTH CAPITOL STREET, NE WASHINGTON, DC 20002	NONE PC	TO SUPPORT NPR'S COVERAGE OF ECONOMICS VIA TWO PODCASTS, PLANET MONEY AND THE INDICATOR; ONLINE SHORT VIDEOS; EDUCATIONAL OUTREACH; AND LIVE EVENTS	325,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NEW VENTURE FUND 1201 CONNECTICUT AVE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	TO ENCOURAGE CHARITABLE GIVING IN SUPPORT OF BASIC SCIENTIFIC RESEARCH THROUGH SLOAN MEMBERSHIP IN THE SCIENCE PHILANTHROPY ALLIANCE	350,000.
NEW YORK ACADEMY OF SCIENCES 7 WTC, 250 GREENWICH ST., 40TH FL. NEW YORK, NY 10007-2157	NONE PC	TO EXPAND THE DEVELOPING PILOT PROGRAM, SCIENCE ALLIANCE LEADERSHIP TRAINING (SALT), TO TRAIN 90 DIVERSE, ADVANCED DOCTORAL STUDENTS TO LEAD INSTITUTIONAL CHANGE THROUGH ACQUISITION OF STRONG ENTREPRENEURIAL, INTERPERSONAL, AND TECHNICAL SKILLS	125,000.
NEW YORK PUBLIC LIBRARY STEPHEN A. SCHWARZMAN BUILDING FIFTH AVENUE AND 42ND STREET NEW YORK, NY 10018	NONE PC	TO SUPPORT THE CONTINUED DEVELOPMENT OF THE SIMPLYE E-READER APPLICATION IN ORDER TO MAKE THE DPLA EXCHANGE AND OTHER EBOOKS AVAILABLE TO AN INCREASING NUMBER OF LARGE LIBRARIES AND CONSORTIA UNDER NONPROPRIETARY CONDITIONS	300,000.
NEW YORK PUBLIC RADIO 160 VARICK STREET NEW YORK, NY 10013	NONE PC	TO SUPPORT STORY-DRIVEN HEALTH CARE REPORTING AT WNYC, INCLUDING COVERAGE OF HEALTH CARE POLICY AND ECONOMICS, MEDICAL SCIENCE AND DISCOVERY, AND PERSONAL HEALTH	200,000.
NEW YORK UNIVERSITY 665 BROADWAY, SUITE 801 NEW YORK, NY 10003	NONE PC	TO FURTHER DEVELOP THE PH.D. EXCELLENCE INITIATIVE TO CHANGE THE FACE OF U.S. ECONOMICS DEPARTMENTS BY PREPARING A SELECT CADRE OF HIGH-ACHIEVING POST-BACCALAUREATE STUDENTS OF COLOR FOR THE RIGORS OF PH.D. STUDY IN THE FIELD	180,000.
NEW YORK UNIVERSITY 665 BROADWAY, SUITE 801 NEW YORK, NY 10003	NONE PC	TO STUDY HOW ATTENTION AND PERCEPTION AFFECT MICROECONOMIC BEHAVIORS AND MACROECONOMIC OUTCOMES	172,511.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NEW YORK UNIVERSITY 665 BROADWAY, SUITE 801 NEW YORK, NY 10003	NONE PC	TO STUDY AND BUILD A RESEARCH COMMUNITY AROUND THE GENESIS OF DATA USED TO TRAIN AND EVALUATE THE PERFORMANCE OF AI SYSTEMS	639,008.
NEW YORK UNIVERSITY 665 BROADWAY, SUITE 801 NEW YORK, NY 10003	NONE PC	TO SUPPORT SCREENWRITING AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS AND GAMES BY TOP FILM AND GAME DESIGN STUDENTS	144,122.
NEW YORK UNIVERSITY 665 BROADWAY, SUITE 801 NEW YORK, NY 10003	NONE PC	TO STUDY THE ROLE OF INFORMATION ASYMMETRY AMONG STAKEHOLDERS IN DISTRIBUTION SYSTEM PLANNING AND THE IMPLEMENTATION OF DISTRIBUTED ENERGY RESOURCES	200,000.
NORTH CAROLINA STATE UNIVERSITY 121 PEELE HALL RALEIGH, NC 27695	NONE GOV	TO STUDY THE EFFECTS OF AN AGING LABOR FORCE ON FIRMS' DECISION TO MODIFY EMPLOYMENT CONDITIONS AND COMPENSATION PROGRAMS	124,979.
NORTH CAROLINA STATE UNIVERSITY 121 PEELE HALL RALEIGH, NC 27695	NONE GOV	TO SUPPORT THE RESEARCH AND WRITING OF THE END OF EVERYTHING, A BOOK ON ASTROPHYSICS AND THE VARIOUS POSSIBILITIES FOR THE END OF THE UNIVERSE, PUBLISHED BY SCRIBNER IN 2020	29,909.
NORTH CAROLINA STATE UNIVERSITY 121 PEELE HALL RALEIGH, NC 27695	NONE GOV	TO UTILIZE AN OPEN SOURCE ENERGY SYSTEM MODEL TO CREATE AN OPEN ENERGY OUTLOOK FOR THE UNITED STATES	141,849.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NORTH CAROLINA STATE UNIVERSITY 121 PEELE HALL RALEIGH, NC 27695	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR VERONICA AUGUSTYN IN CHEMISTRY	70,000.
NORTH FORK TV FESTIVAL, INC. 1636 3RD AVE, SUITE 1431 NEW YORK, NY 10128	NONE PC	TO RECRUIT, CURATE, AND EXHIBIT A HIGH-QUALITY SCIENCE OR TECHNOLOGY FOCUSED TELEVISION PILOT AT THE 2019 NORTH FORK TV FESTIVAL	125,000.
NORTHEASTERN UNIVERSITY 360 HUNTINGTON AVE BOSTON, MA 02115	NONE PC	TO SUPPORT AN INTENSIVE, YEAR-LONG ACADEMIC LEADERSHIP PROGRAM FOR 40-50 MID-CAREER STEM FACULTY OF COLOR FROM A CONSORTIUM OF SEVEN BOSTON-AREA UNIVERSITIES	122,641.
NORTHEASTERN UNIVERSITY 360 HUNTINGTON AVE BOSTON, MA 02115	NONE PC	TO SUPPORT THE RESEARCH AND WRITING OF "SEVEN INSIGHTS ABOUT THE BRAIN," TO BE PUBLISHED BY HOUGHTON MIFFLIN HARCOURT	29,879.
NORTHEASTERN UNIVERSITY 360 HUNTINGTON AVE BOSTON, MA 02115	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CHRISTOPHER WILSON IN COMPUTER SCIENCE	70,000.
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	TO STUDY THE IMPACT OF FUNDING AND FUNDING SCHEMES ON THE PROGRESS OF SCIENTIFIC RESEARCH USING BROAD MEASURES AND QUASI-EXPERIMENTAL METHODS	249,946.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	TO INVESTIGATE THE FUNDAMENTAL CHEMISTRY OF INDOOR SURFACES USING ADVANCED SPECTROSCOPY	125,000.
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR RAFFAELLA MARGUTTI IN PHYSICS	70,000.
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JONATHAN RIVNAY IN CHEMISTRY	70,000.
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BAO LE HUNG IN MATHEMATICS	70,000.
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	TO DISSEMINATE KEY RESULTS FROM THE CHEMISTRY OF INDOOR ENVIRONMENTS PROGRAM AND THE MICROBIOLOGY OF THE BUILT ENVIRONMENT PROGRAM	41,150.
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO DEVELOP A PROGRAMMING TOOLKIT FOR THE CONSTRUCTION, EXECUTION, AND EVALUATION OF MACROECONOMIC SIMULATIONS WHERE HETEROGENEOUS AGENTS INTERACT BEHAVIORALLY	159,185.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO DEVELOP AND TEST PRIVACY-PROTECTION TECHNIQUES FOR ENCRYPTING, LINKING, AND ANALYZING SENSITIVE DATA	279,597.
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO PARTIALLY SUPPORT PARTICIPATION IN THE 2019 NUMFOCUS PROJECT SUSTAINABILITY SUMMIT	30,000.
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO SUPPORT TRAVEL TO AND ATTENDANCE AT JULIACON2019 BY UNDERREPRESENTED MINORITIES IN COMPUTING WHO ARE USERS OF AND CONTRIBUTORS TO THE JULIA PROGRAMMING LANGUAGE	20,000.
OCTO 20227 NE 163RD STREET WOODINVILLE, WA 98077	NONE PC	TO SUPPORT THE DEVELOPMENT OF A GENERAL-PURPOSE TOOL TO COMPARE VERSIONS OF A DIGITAL FILE	76,501.
OHIO STATE UNIVERSITY 1960 KENNY RD. COLUMBUS, OH 43210	NONE GOV	TO RESEARCH THE DEVELOPMENT AND EVALUATION OF PATHWAYS TO NET-ZERO EMISSION AGRICULTURE AND CROPPING SYSTEMS	500,000.
OHIO STATE UNIVERSITY 1960 KENNY RD. COLUMBUS, OH 43210	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DAVID NAGIB IN CHEMISTRY	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
OHIO STATE UNIVERSITY 1960 KENNY RD. COLUMBUS, OH 43210	NONE GOV	TO SUPPORT DR. ANNE CO IN UNDERTAKING A COLLABORATIVE RESEARCH PROJECT ON THE SOLID ELECTROLYTE INTERPHASE IN BATTERIES, RESULTING FROM THE 2018 SCIALOG CONFERENCE ON ADVANCED ENERGY STORAGE	36,666.
OPEN KNOWLEDGE FOUNDATION ST JOHN'S INNOV. CTR, COWLEY RD CAMBRIDGE CAMBRIDGESHIRE UNITED KINGDOM CB4 0WS	NONE NC	TO SUPPORT ADOPTION AND USE OF A LIGHTWEIGHT DATA PACKAGING STANDARD IN ORDER TO REDUCE THE FRICTIONS EXPERIENCED IN THE ACQUISITION, SHARING, USE, AND REUSE OF RESEARCH DATA	249,875.
PARIS SCHOOL OF ECONOMICS 48 BD JOURDAN PARIS FRANCE 75014	NONE NC	TO IMPROVE THE QUALITY, QUANTITY, AND ACCESSIBILITY OF DATA IN THE WORLD WEALTH AND INCOME DATABASE (WID.WORLD) FOR RESEARCHERS OF ALL BACKGROUNDS AND FOR THE GENERAL PUBLIC	300,000.
PARTNERSHIP FOR PUBLIC SERVICE 1100 NEW YORK AVENUE NW, SUITE 200E WASHINGTON, DC 20005	NONE PC	TO DEVELOP A COMMUNITY OF DATA EXPERTS THAT HELP FEDERAL AGENCIES WITH DATA-DRIVEN DECISION-MAKING AND DATA-POLICY IMPLEMENTATIONS	47,453.
PECAN STREET, INC. 3924 BERKMAN DRIVE AUSTIN, TX 78723	NONE PC	TO IMPROVE RESEARCHER ACCESS TO CRITICAL ENERGY DATA BY ENHANCING DATA RESOLUTION AND GRANULARITY, DIVERSIFYING DATA LINKAGES, AND EXPANDING GEOGRAPHIC SCOPE OF INSTRUMENTED HOMES	297,000.
PHILANTHROPY NEW YORK 320 EAST 43RD STREET NEW YORK, NY 10017	NONE PC	TO SUPPORT WORK ON BEHALF OF THE NONPROFIT AND CHARITABLE COMMUNITY.	28,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PIONEER WORKS 159 PIONEER STREET NEW YORK, NY 11231	NONE PC	TO ESTABLISH A MEDIA LAB AT PIONEER WORKS BY SUPPORTING THE DEVELOPMENT OF A STRATEGIC PLAN AND THE PRODUCTION OF PILOT SCIENCE CHANNEL, PODCAST, VIDEO, AND VR SCIENCE PROGRAMS	124,410.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	TO ESTABLISH AND STRENGTHEN PROFESSIONAL NETWORKS OF RESEARCH SOFTWARE ENGINEERS IN THE UNITED STATES	143,191.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JASON LEE IN COMPUTER SCIENCE, ORIGINALLY AWARDED TO THE UNIVERSITY OF SOUTHERN CALIFORNIA	70,000.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	TO INVESTIGATE AN AS-YET UNDERTHEORIZED LINK BETWEEN OUTSOURCING AND AUTOMATION	49,280.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR LAURE RESPLANDY IN OCEAN SCIENCES	70,000.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR RICARDO MALLARINO IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR RALPH KLEINER IN CHEMISTRY	70,000.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ANNEGRET FALKNER IN NEUROSCIENCE	70,000.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JEFF THOMPSON IN PHYSICS	70,000.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MICHAL KOLESAR IN ECONOMICS	70,000.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR GILLAT KOL IN COMPUTER SCIENCE	70,000.
PRINCETON UNIVERSITY 35 OLDEN ST PRINCETON, NJ 08540	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR WYATT LLOYD IN COMPUTER SCIENCE	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PRIVATE CAPITAL RESEARCH INSTITUTE ARTHUR ROCK CENTER, RM. 314 HARVARD BUSINESS SCHOOL/SOLDIERS FIELD ROAD BOSTON, MA 02163	NONE PF	TO SET UP AN ADMINISTRATIVE DATA RESEARCH FACILITY THAT MAKES DATA ABOUT THE PRIVATE CAPITAL INDUSTRY ACCESSIBLE TO RESEARCHERS	100,000.
PROSPECT THEATER COMPANY, INC. 520 8TH AVENUE, SUITE 307, 3RD FL NEW YORK, NY 10018	NONE PC	TO SUPPORT THE THEATRICAL RUN OF "EINSTEIN'S DREAMS," A MUSICAL ABOUT ALBERT EINSTEIN'S WORK ON THE THEORY OF SPECIAL RELATIVITY	25,000.
PRX INCORPORATED 1380 SOLDIERS FIELD ROAD BOSTON, MA 02135	NONE PC	TO SUPPORT PRX IN DEVELOPING A NEW GENERATION OF SCIENCE SHOWS AND EXPANDING SCIENCE-THEMED AUDIO CONTENT FOR RADIO BROADCAST AND PODCAST	235,000.
PRX INCORPORATED 1380 SOLDIERS FIELD ROAD BOSTON, MA 02135	NONE PC	TO SUPPORT A ONE-DAY SYMPOSIUM ON THE EMERGING SYSTEMIC THREATS TO THE OPENNESS OF PODCASTING, INCLUDING CORPORATE CONSOLIDATION AND DATA PRIVACY	75,000.
PURDUE UNIVERSITY 100 S GRANT ST. WEST LAFAYETTE, IN 47907	NONE PC	TO RECRUIT, SUPPORT, AND GRADUATE INDIGENOUS STUDENTS EARNING GRADUATE DEGREES IN STEM DISCIPLINES THROUGH THE CONSORTIAL EFFORTS OF THE SLOAN INDIGENOUS GRADUATE PARTNERSHIP (SIGP)	113,754.
PURDUE UNIVERSITY 100 S GRANT ST. WEST LAFAYETTE, IN 47907	NONE PC	TO DEVELOP A ROBUST PROGRAM AT SUNY ESF TO SUPPORT INDIGENOUS STEM SCHOLARS AND TO INTEGRATE INTO AND CONTRIBUTE TO THE NATIONAL SIGP	25,632.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PURDUE UNIVERSITY 100 S GRANT ST. WEST LAFAYETTE, IN 47907	NONE PC	TO SUPPORT DR. PARTHA MUKHERJEE IN UNDERTAKING A COLLABORATIVE RESEARCH PROJECT ON LITHIUM BATTERY PERFORMANCE, RESULTING FROM THE 2018 SCIALOG CONFERENCE ON ADVANCED ENERGY STORAGE	36,666.
QUINN EASTMAN 220 INMAN DRIVE DECATUR, GA 30030	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF "THE WOMAN WHO COULDN'T WAKE UP," PUBLISHED BY COLUMBIA UNIVERSITY PRESS	30,000.
RAND CORPORATION 1776 MAIN STREET, P.O. BOX 2138 SANTA MONICA, CA 90407-2137	NONE PC	TO CONSTRUCT, FIELD, AND ANALYZE A NEW SURVEY TO COLLECT INFORMATION ABOUT EMPLOYERS' INCENTIVES AND WILLINGNESS TO CONSIDER ALTERNATE WORK CONDITIONS FOR AGING WORKERS	297,634.
REBECCA SCHWARZLOSE 32 ABERDEEN PLACE SAINT LOUIS, MO 63105	NONE I	TO SUPPORT THE WRITING AND ILLUSTRATIONS FOR A BOOK ABOUT BRAIN MAPS TO BE PUBLISHED BY HOUGHTON MIFFLIN HARCOURT AND PROFILE BOOKS IN SPRING 2020	19,700.
RED HOOK INITIATIVE 767 HICKS STREET BROOKLYN, NY 11231	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE FARM-BASED LEARNING PROGRAM ON RED HOOK FARMS FOR STUDENTS IN RED HOOK, BROOKLYN	25,000.
RENSSELAER POLYTECHNIC INSTITUTE 110 8TH STREET TROY, NY 12180-3590	NONE PC	TO CONTINUE TO LEAD THE DATA SCIENCE AND MANAGEMENT DIMENSIONS OF THE DEEP CARBON OBSERVATORY AND CONTRIBUTE TO PROGRAM SYNTHESIS	83,903.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NY 230 WEST 41ST STREET NEW YORK, NY 10036	NONE PC	TO PROVIDE RENEWED SUPPORT TO ENCOURAGE AND SUPPORT PROMISING EARLY CAREER SCIENTISTS AT BOTH STUDENT AND FACULTY LEVELS THROUGH TWO AWARD PROGRAMS: A SUMMER UNDERGRADUATE RESEARCH PROGRAM AND A JUNIOR FACULTY RESEARCH AWARD PROGRAM	436,500.
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO DEVELOP AND IMPLEMENT A TRANSPARENT, MULTIDISCIPLINARY RESEARCH INITIATIVE TO UPDATE COMPREHENSIVELY THE FRAMEWORK FOR SOCIAL COST OF CARBON DIOXIDE ESTIMATION REFLECTING THE BEST AVAILABLE SCIENCE AND ECONOMICS ANALYSIS	200,000.
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO CONTINUE A POSTDOCTORAL RESEARCHER PROGRAM THAT WILL TRAIN THE NEXT GENERATION OF SCHOLARS IN ENERGY AND ENVIRONMENTAL ECONOMICS AND POLICY ANALYSIS	100,000.
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO BETTER UNDERSTAND THE ROLE OF VARIABLE PRICING, CONSUMER INCENTIVES, AND SMART TECHNOLOGIES IN SHIFTING ENERGY DEMAND	250,000.
RETRO REPORT 633 THIRD AVENUE, 16TH FLOOR NEW YORK, NY 10017	NONE POF	TO SUPPORT RESEARCH AND PRODUCTION OF A SHORT DIGITAL DOCUMENTARY AND ACCOMPANYING VIDEOS ON THE SCIENCE AND TECHNOLOGY BEHIND DRIVERLESS CARS	32,500.
RHIZOME 235 BOWERY NEW YORK, NY 10002	NONE PC	TO PROTOTYPE THE ALIGNMENT OF SOFTWARE AND NETWORK PRESERVATION IN THE CONTEXT OF A NEW PUBLISHING PLATFORM FOR EMULATION AS A SERVICE	187,125.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
RICE UNIVERSITY 6100 MAIN STREET, CAAM DEPT MS 134 HOUSTON, TX 77005	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MING YI IN PHYSICS	70,000.
RICE UNIVERSITY 6100 MAIN STREET, CAAM DEPT MS 134 HOUSTON, TX 77005	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MARK TORRES IN OCEAN SCIENCES	70,000.
RICHARD RHODES 123 EL GRANADA BOULEVARD HALF MOON BAY, CA 94019	NONE I	TO SUPPORT THE FIRST FULL BIOGRAPHY OF ENTOMOLOGIST AND EVOLUTIONARY BIOLOGIST E.O. WILSON	125,000.
ROCHESTER INSTITUTE OF TECHNOLOGY 79 LOMB MEMORIAL DRIVE, #09/3185 ROCHESTER, NY 14623	NONE PC	TO DEVELOP A MATHEMATICALLY-AWARE SEARCH ENGINE FOR POPULAR USE BY BOTH STUDENTS AND EXPERTS	100,000.
ROCKAWAY WATERFRONT ALLIANCE, INC. P.O. BOX 900645 FAR ROCKAWAY, NY 11690	NONE PC	TO PROVIDE RENEWED PARTIAL SUPPORT FOR THE ENVIRONMENTOR PROGRAM, A SCIENCE RESEARCH INTERNSHIP PROGRAM	50,000.
RUSSELL SAGE FOUNDATION 112 EAST 64TH STREET NEW YORK, NY 10065	NONE POF	TO PUBLISH A SPECIAL VOLUME OF THE RUSSELL SAGE FOUNDATION JOURNAL OF THE SOCIAL SCIENCES ON LABOR MARKET TRENDS AND THEIR ECONOMIC IMPLICATIONS	50,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY 110 FRELINGHUYSEN ROAD, HILL CENTER, BUCH CAMPUS PISCATAWAY, NJ 08854-8019	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KRISTEN HENDRICKS IN MATHEMATICS, ORIGINALLY AWARDED TO MICHIGAN STATE UNIVERSITY	70,000.
SCIENCE FRIDAY INITIATIVE, INC. 19 WEST 44TH STREET, SUITE 412 NEW YORK, NY 10036	NONE PC	TO SUPPORT SCIENCE FRIDAY, FOCUSING ON SCIENCE AND THE ARTS, INCLUDING RADIO BROADCASTS, DIGITAL SCIENCE VIDEOS, BLOG POSTS, LIVE EVENTS, AND ASSOCIATED MEDIA	242,450.
SCRIPPS RESEARCH INSTITUTE 10550 NORTH TORREY PINES ROAD LA JOLLA, CA 92037	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KEARY ENGLE IN CHEMISTRY	70,000.
SFFILM 39 MESA STREET, SUITE 110 SAN FRANCISCO, CA 94129	NONE PC	TO NURTURE, DEVELOP, AND CHAMPION FILMS THAT EXPLORE SCIENTIFIC OR TECHNOLOGICAL THEMES AND CHARACTERS	267,500.
SFFILM 39 MESA STREET, SUITE 110 SAN FRANCISCO, CA 94129	NONE PC	TO PROVIDE COMPLETION FUNDING FOR A FEATURE-LENGTH FILM ABOUT THE LIFE AND SCIENTIFIC CONTRIBUTIONS OF NIKOLA TESLA	250,000.
SOCIAL SCIENCE RESEARCH COUNCIL 810 SEVENTH AVENUE NEW YORK, NY 10019	NONE PC	TO PROVIDE MENTORING, NETWORKING AND PROFESSIONAL DEVELOPMENT SERVICES TO SLOAN MPHD GRADUATES THROUGH THE SLOAN SCHOLARS MENTORING NETWORK (SSMN), AND TO REVIEW THE IMPACTS OF THE SSMN AND MPHD AS SLOAN SCHOLARS MOVE THROUGH THEIR CAREERS	600,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SOUTHERN REGIONAL EDUCATION BOARD 592 10TH STREET, NW ATLANTA, GA 30318-5790	NONE PC	TO SUPPORT THE INSTITUTE ON TEACHING AND MENTORING AS PART OF THE NATIONAL EFFORT TO INCREASE DOCTORAL DEGREES AWARDED TO MEMBERS OF UNDERREPRESENTED MINORITIES IN STEM FIELDS, WITH A SPECIAL FOCUS ON PREPARATION FOR CAREERS IN HIGHER EDUCATION	350,000.
SPELMAN COLLEGE 350 SPELMAN LANE, S.W. BOX 1551 ATLANTA, GA 30314	NONE PC	TO ADDRESS THE SCARCITY OF BLACK WOMEN WHO EARN DEGREES IN ECONOMICS, AND GROW THE NUMBER OF BLACK WOMEN ECONOMISTS IN THE PROFESSORiate	260,000.
SPONSORS FOR EDUCATIONAL OPPORTUNITY, INC. 55 EXCHANGE PLACE, SUITE 601 NEW YORK, NY 10005	NONE PC	TO PROMOTE UNDERREPRESENTED MINORITIES WITHIN THE INVESTMENT MANAGEMENT INDUSTRY BY STRENGTHENING THE PIPELINE OF DIVERSE TALENT. ENSURE THAT MINORITY TALENT IS SUPPORTED DURING THEIR FINAL UNDERGRADUATE YEAR AND DURING THE EARLY STAGES OF THEIR CAREER	20,000.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TO MAKE RESEARCH ON MACRO-FINANCIAL MODELING MORE REPRODUCIBLE, COLLABORATIVE, AND COMPARATIVE	170,002.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TO CONDUCT RESEARCH ON THE PRIVATE AND SOCIAL RETURNS TO INNOVATION	244,088.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TO DEVELOP, TEST, AND POST NEW ALGORITHMS FOR ESTIMATING HETEROGENEOUS CAUSAL EFFECTS FROM LARGE-SCALE OBSERVATIONAL STUDIES AND FIELD EXPERIMENTS	50,000.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TO SUPPORT A CONFERENCE SERIES IN ORDER TO FOSTER MORE RESEARCH AND POLICY DISCUSSION ABOUT CHANGING LABOR MARKET INSTITUTIONS TO ACCOMMODATE INCREASED LONGEVITY	233,072.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TO STUDY THE BEHAVIORAL WELFARE EFFECTS OF ONLINE MEDIA CONSUMPTION	323,835.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TO MODEL THE SUPPLY OF AND DEMAND FOR RESEARCH DATA, INCLUDING DECISIONS ABOUT HOARDING, SHARING, AND PRIVACY PROTECTION	325,325.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TO STUDY THE BEHAVIORAL ECONOMICS OF SMARTPHONE USE BY TESTING METHODS FOR IMPROVING SELF-CONTROL AND LONG-RUN WELFARE	232,361.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DR. HEIDI WILLIAMS IN ECONOMICS, ORIGINALLY AWARDED TO THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	28,827.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TO DEVELOP A NEW OUTSOURCING SURVEY WITH THE U.S. CENSUS BUREAU TO COLLECT DATA ON 50,000 U.S. ESTABLISHMENTS TO EVALUATE THE DRIVERS AND EFFECTS OF OUTSOURCING	460,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KEREN HAROUSH IN NEUROSCIENCE	70,000.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MARY WOOTTERS IN COMPUTER SCIENCE	70,000.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BEN FELDMAN IN PHYSICS	70,000.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR REBECCA DIAMOND IN ECONOMICS	70,000.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MELANIE MORTEN IN ECONOMICS	70,000.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR YAN XIA IN CHEMISTRY	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KEITH WINSTEIN IN COMPUTER SCIENCE	70,000.
STATE THEATRE REGIONAL ARTS CENTER AT NB, INC. 40 LIVINGSTON AVENUE NEW BRUNSWICK, NJ 08901	NONE PC	TO SUPPORT THE PRESENTATION OF MUSIC AND THE MIND, A PANEL DISCUSSION ON THE EFFECTS OF MUSIC ON THE BRAIN, ON FEBRUARY 26, 2019	5,000.
SUNDANCE INSTITUTE 5900 WILSHIRE BOULEVARD, STE. 800 LOS ANGELES, CA 90036	NONE PC	TO SUPPORT A SCIENCE AND TECHNOLOGY FILM PROGRAM AT THE NATION'S PRE-EMINENT INDEPENDENT FILM CENTER THAT INCLUDES SCREENWRITING FELLOWSHIPS, FEATURE FILM PRIZES, SCIENCE AND FILM PANELS, AND ASSOCIATED OUTREACH	250,000.
TECHNOLOGY AFFINITY GROUP 1 NORTH STATE STREET, SUITE 1500 CHICAGO, IL 60602	NONE PC	TO SUPPORT 2019 MEMBERSHIP DUES FOR THIS AFFINITY GROUP OF THE COUNCIL ON FOUNDATIONS	5,000.
TEXAS A&M UNIVERSITY TEXAS A&M UNIVERSITY, DEPARTMENT OF OCEANOGRAPHY COLLEGE STATION, TX 77843	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JUNEHYUK JUNG IN MATHEMATICS	70,000.
THE AMERICAN ASSEMBLY 475 RIVERSIDE DRIVE, SUITE 456 NEW YORK, NY 10115	NONE PC	TO SUPPORT TECHNICAL AND INTERFACE WORK IN ADVANCE OF THE RELEASE OF THE OPEN SYLLABUS EXPLORER 2.0	50,000.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE ASPEN INSTITUTE 271 MADISON AVENUE, SUITE 606 NEW YORK, NY 10016	NONE PC	TO SUPPORT THE LAUNCH OF THE ASPEN INSTITUTE'S SCIENCE & SOCIETY PROGRAM	50,000.
THE CONVERSATION 745 ATLANTIC AVE., 8TH FLOOR BOSTON, MA 02111	NONE PC	TO DEVELOP ARTICLES AND RESOURCES THAT HIGHLIGHT USES OF THE DECENNIAL CENSUS AND OTHER DATA PRODUCED BY FEDERAL STATISTICAL AGENCIES	50,000.
THE FUTURO MEDIA GROUP 361 WEST 125TH STREET NEW YORK, NY 10027	NONE PC	TO SUPPORT FOUR SHORT ANIMATED DOCUMENTARY FILMS AND RELATED OUTREACH ABOUT LITTLE-KNOWN WOMEN IN STEM FIELDS AS PART OF A MULTIMEDIA SERIES ABOUT GREAT WOMEN DISTRIBUTED DIGITALLY AND BROADCAST ON PBS AMERICAN MASTERS	160,000.
THE GRADUATE CENTER FOUNDATION, INC. 365 FIFTH AVENUE, ROOM 8204 NEW YORK, NY 10016	NONE PC	TO PILOT A NEW, ANNUAL SCIENTIFIC BIOGRAPHY FELLOWSHIP AT THE LEON LEVY CENTER FOR BIOGRAPHY THAT WILL RESULT IN THREE NEW MAJOR BIOGRAPHIES OF SCIENTISTS AND/OR TECHNOLOGISTS	110,250.
THE METROPOLITAN MUSEUM OF ART 1000 FIFTH AVENUE NEW YORK, NY 10028	NONE PC	TO CONDUCT A SERIES OF PLANNING ACTIVITIES TO IDENTIFY THE SCIENTIFIC NEEDS OF THE NYC MUSEUM COMMUNITY	95,000.
THE MR. OCTOBER FOUNDATION FOR KIDS 500 VALENZUELA ROAD CARMEL, CA 93923	NONE PF	TO PROVIDE PARTIAL SUPPORT FOR AN AFTERSCHOOL AND SUMMER STEM ENRICHMENT PROGRAM AT SIX PUBLIC SCHOOLS IN THE BRONX	50,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE NEW SCHOOL 66 WEST 12TH STREET NEW YORK, NY 10011	NONE PC	TO STUDY NEW CITY AND STATE POLICIES REGARDING DRIVER PAY AND CONGESTION ON THE NEW YORK CITY FOR-HIRE VEHICLE (FHV) LABOR MARKET	94,515.
THE PENNSYLVANIA STATE UNIVERSITY OLD MAIN UNIVERSITY PARK, PA 16801	NONE GOV	TO SUPPORT A MULTIDISCIPLINARY RESEARCH PROJECT THAT EXAMINES THE IMPACT OF VARIABLE WIND GENERATION ON TRANSMISSION SYSTEMS	50,000.
THE PENNSYLVANIA STATE UNIVERSITY OLD MAIN UNIVERSITY PARK, PA 16801	NONE GOV	TO DISSEMINATE KEY RESULTS FROM THE CHEMISTRY OF INDOOR ENVIRONMENTS PROGRAM AT INDOOR AIR 2020	100,000.
THE PENNSYLVANIA STATE UNIVERSITY OLD MAIN UNIVERSITY PARK, PA 16801	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JOHN LESIEUTRE IN MATHEMATICS	70,000.
THE UNIVERSITY CORPORATION 18111 NORDHOFF STREET NORTHRIDGE, CA 91330-3809	NONE PC	TO SUPPORT DR. KAH CHUN LAU IN UNDERTAKING A COLLABORATIVE RESEARCH PROJECT ON AQUEOUS FLOW BATTERIES, RESULTING FROM THE 2018 SCIALOG CONFERENCE ON ADVANCED ENERGY STORAGE	36,666.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO STUDY HOW THE CHOICE OF COMPUTATIONAL TOOLS SUCH AS PROGRAMMING LANGUAGES AND DATA-ANALYSIS ENVIRONMENTS IMPACTS THEIR USERS	249,297.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO COMPILE ACCURATE AND COMPREHENSIVE MICRODATA ABOUT HOUSEHOLD INCOME BY DEVELOPING NEW METHODS FOR COMBINING SURVEY RESULTS WITH ADMINISTRATIVE DATA	460,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO SUPPORT THE TRAINING OF EARLY CAREER SCHOLARS IN DEVELOPING A MORE DETAILED, GRANULAR APPROACH TO ESTIMATING DAMAGE FUNCTIONS THAT CAN CONTRIBUTE TO PROVIDING MORE TRANSPARENT ESTIMATES OF THE SOCIAL COST OF CARBON	300,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO INCREASE THE DIVERSITY OF THE PROFESSORIATE IN COMPUTING AT RESEARCH UNIVERSITIES THROUGH THE FLIP ALLIANCE, AS A MEANS TO DIVERSIFY THE ENTIRE FIELD	250,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MATTHEW KAUFMAN IN NEUROSCIENCE	70,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MENGJIE CHEN IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	70,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JOHN ANDERSON IN CHEMISTRY	70,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CLARA BLATTLER IN OCEAN SCIENCES	70,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO SUPPORT THE WORK OF A COMMITTEE FOR THE STUDY OF DIGITAL PLATFORMS IN PREPARATION FOR AN INTERNATIONAL CONFERENCE ON ANTITRUST AND COMPETITION RESEARCH	20,000.
THE WILDERNESS SOCIETY 1615 M STREET NW WASHINGTON, DC 20036	NONE PC	TO SUPPORT THE WILDERNESS SOCIETY'S ENERGY AND CLIMATE PROGRAM'S POLICY RESEARCH	30,000.
TRIBECA FILM INSTITUTE 32 AVENUE OF THE AMERICAS, 27TH FLOOR NEW YORK, NY 10013	NONE PC	TO BUILD ON THE TFI SLOAN FILMMAKER FUND'S SUCCESS IN DEVELOPING NEW SCIENCE FILMS TO PRODUCTION AND TO RAISE THE PROFILE OF SLOAN SCREENINGS, READINGS, AND PANELS AT THE TRIBECA FILM FESTIVAL	230,000.
TRIBECA FILM INSTITUTE 32 AVENUE OF THE AMERICAS, 27TH FLOOR NEW YORK, NY 10013	NONE PC	TO SUPPORT THE SLOAN STUDENT GRAND JURY PRIZE FOR THE ANNUAL SELECTION AND DEVELOPMENT OF THE BEST-OF-THE-BEST SCREENPLAY FROM SLOAN'S SIX FILM SCHOOL PARTNERS AND TO PILOT A NEW SLOAN DISCOVERY AWARD SELECTED FROM SIX NEW NON-SLOAN FILM SCHOOL SCREENPLAYS WITH S&T THEMES	130,818.
TRIBECA FILM INSTITUTE 32 AVENUE OF THE AMERICAS, 27TH FLOOR NEW YORK, NY 10013	NONE PC	TO BUILD ON THE TFI SLOAN FILMMAKER FUND'S SUCCESS IN DEVELOPING NEW SCIENCE FILMS TO PRODUCTION AND TO RAISE THE PROFILE OF SLOAN SCREENINGS, READINGS, AND PANELS AT THE TRIBECA FILM FESTIVAL	439,250.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
TUFTS UNIVERSITY 4 COLBY STREET, MEDFORD, MA 02155	NONE PC	TO SUPPORT THE OPERATIONS OF ECONOFAC, AN ONLINE SOURCE THAT DISSEMINATES POLICY-RELEVANT ECONOMICS RESEARCH	50,000.
UNITED STATES ASSOCIATION FOR ENERGY ECONOMICS 28790 CHAGRIN BLVD, SUITE 350 CLEVELAND, OH 44122	NONE NC	TO SUPPORT THE PH.D. DAY EVENT AND WOMEN IN ENERGY ROUNDTABLE AT THE 2019 USAEE NORTH AMERICAN CONFERENCE IN DENVER, CO	15,000.
UNIVERSITY OF ALBERTA 116 ST. AND 85 AVE., EDMONTON ALBERTA CANADA T6G 2R3	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR STEPHANIE GREEN IN OCEAN SCIENCES	70,000.
UNIVERSITY OF ARIZONA 1401 E. UNIVERSITY BLVD. TUCSON, AZ 85721	NONE GOV	TO SUPPORT THE PRODUCTION OF BEYOND THE EARTH'S EDGE: THE POETRY OF SPACEFLIGHT PUBLISHED BY THE UNIVERSITY OF ARIZONA PRESS IN 2019	19,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO INTEGRATE BEHAVIORAL INSIGHTS INTO THE FOUNDATIONS OF STANDARD MACROECONOMIC MODELS BY RE-EXAMINING THE ROLE OF THE EULER EQUATION	227,435.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO SHED NEW LIGHT ON THE PREVALENCE AND NATURE OF INDEPENDENT CONTRACTING (INCLUDING GIG WORK), WITH A FOCUS ON DOCUMENTING HOW BOTH PRE- AND POST-RETIREMENT OLDER WORKERS COMBINE INDEPENDENT CONTRACTING WITH OTHER SOURCES OF INCOME	100,591.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO CREATE THE E2E EVIDENCE-BASED POLICY FELLOWSHIP PROGRAM THAT WILL BRING ENERGY EFFICIENCY PROGRAM EVALUATION RESEARCH CAPACITY TO STATE AGENCIES	210,684.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO EXPAND UNDERSTANDING OF THE ROLES THAT MICROORGANISMS PLAY IN SHAPING THE CHEMISTRY OF INDOOR ENVIRONMENTS	380,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO INVESTIGATE TRAVELER BEHAVIOR IMPLICATIONS OF AUTONOMOUS VEHICLES	100,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BARNHA SAHA IN MATHEMATICS, ORIGINALLY AWARDED TO THE UNIVERSITY OF MASSACHUSETTS, AMHERST	70,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO BUILD, TEST, AND STUDY ONLINE PLATFORMS FOR COLLECTING AND CATALOGUING EXPERT FORECASTS ABOUT THE RESULTS OF SOCIAL SCIENCE EXPERIMENTS	101,669.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO DEVELOP AND PROMULGATE BEST PRACTICES IN THE REVIEW OF STATISTICAL RESEARCH SOFTWARE	117,883.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO DEVELOP NEW INTERFACES FOR SCIENTIFIC LITERATURE THAT INCLUDE CONTEXT-RELEVANT EXPLANATIONS OF TECHNICAL TERMS AND NOTATION	140,942.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ALVIN CHEUNG IN COMPUTER SCIENCE, ORIGINALLY AWARDED TO THE UNIVERSITY OF WASHINGTON	70,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MORITZ HARDT IN COMPUTER SCIENCE	70,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR GABRIEL ZUCMAN IN ECONOMICS	70,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SERGEY LEVINE IN COMPUTER SCIENCE	70,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR COURTNEY DRESSING IN PHYSICS	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SHIRSHENDU GANGULY IN MATHEMATICS	70,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR PRIYA MOORJANI IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	70,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO PROVIDE RENEWED SUPPORT TO EXAMINE THE PROCESSES CONTROLLING ABUNDANCE, SOURCES AND FATES OF ORGANIC CHEMICALS INDOORS	300,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO SUPPORT TWO ANNUAL ENERGY CAMP WORKSHOPS TO FACILITATE COLLABORATION AND INITIATE NEW RESEARCH PROJECTS AMONG TOP JUNIOR AND SENIOR ENERGY ECONOMISTS	50,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DR. SONG SUN IN MATHEMATICS, ORIGINALLY AWARDED TO STONY BROOK UNIVERSITY	18,784.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO STUDY THE ECONOMICS AND MAINTENANCE OF DIGITAL INFRASTRUCTURE BY INVESTIGATING THE INVISIBLE WORK THAT SUSTAINS WIDELY USED OPEN SOURCE PROJECTS	138,035.

ATTACHMENT 20



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO SUPPORT A WORKSHOP ON IMPROVING THE PROCESS AND UTILITY OF ELICITING EXPERT FORECASTS OF SOCIAL SCIENCE RESEARCH RESULTS	20,000.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	TO QUANTIFY EXISTING AND PENDING DISTRIBUTION SYSTEM IMPACTS OF HIGH LEVELS OF PENETRATION OF DISTRIBUTED ENERGY RESOURCES AND LOADS	100,000.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR INNA VISHIK IN PHYSICS	70,000.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR PATRICK SHIH IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	70,000.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR EDUARDO DA SILVA NETO IN PHYSICS	70,000.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR RACHAEL BAY IN OCEAN SCIENCES	70,000.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	TO UNDERSTAND HOW FUTURE ELECTRIC VEHICLE DEMAND WILL IMPACT THE DEVELOPMENT OF ELECTRICITY DISTRIBUTION INFRASTRUCTURE	200,000.
UNIVERSITY OF CALIFORNIA, IRVINE 5171 CALIFORNIA IRVINE, CA 92697	NONE PC	TO PROVIDE RENEWED SUPPORT TO THE INDOOR CHEMISTRY MODELING CONSORTIUM	500,000.
UNIVERSITY OF CALIFORNIA, IRVINE 5171 CALIFORNIA IRVINE, CA 92697	NONE PC	TO BUILD UPON PREVIOUSLY SLOAN-FUNDED RESEARCH ON AGE DISCRIMINATION, BY STUDYING THE EFFECTS OF AGEIST STEREOTYPES IN JOB ADS ON THE AGE COMPOSITION OF JOB APPLICANTS FOR THOSE JOBS	39,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO ANSWER QUESTIONS ABOUT HOW CALIFORNIA'S WORKFORCE SYSTEM SERVES OLDER WORKERS IN TERMS OF TRAINING AND ITS EFFECTIVENESS	131,942.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO SUPPORT A WORKSHOP AND DEVELOP A FUTURE RESEARCH AGENDA ON KNOWLEDGE INFRASTRUCTURES	50,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR AASWATH RAMAN IN PHYSICS, ORIGINALLY AWARDED TO THE UNIVERSITY OF PENNSYLVANIA	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR YONGJIE HU IN CHEMISTRY	70,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DENIS CHETVERIKOV IN ECONOMICS	70,000.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO ESTABLISH AN EXTERNAL ENVIRONMENTAL ECONOMICS ADVISORY COMMITTEE CONSISTING OF LEADING ENERGY AND ENVIRONMENTAL ECONOMISTS TO ANALYZE COST-BENEFIT TRADEOFFS	50,000.
UNIVERSITY OF CALIFORNIA, RIVERSIDE 900 UNIVERSITY AVE RIVERSIDE, CA 92521	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR WEI LIU IN OCEAN SCIENCES	70,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	TO ASSESS THE ECONOMIC, POLICY, INSTITUTIONAL, AND TECHNOLOGICAL BARRIERS AND OPPORTUNITIES ASSOCIATED WITH THE DEVELOPMENT AND DEPLOYMENT OF CARBON CAPTURE, UTILIZATION, AND SEQUESTRATION TECHNOLOGIES	75,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	TO INVESTIGATE THE FUNDAMENTAL CHEMISTRY OF INDOOR SURFACES	249,760.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JULIA DIAZ IN OCEAN SCIENCES, ORIGINALLY AWARDED TO THE UNIVERSITY OF GEORGIA	65,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	TO COORDINATE EFFORTS TO INTEGRATE SURFACE CHEMISTRY DATA BY ESTABLISHING THE SURFACE CONSORTIUM FOR CHEMISTRY OF INDOOR ENVIRONMENTS (SURF-CIE)	125,000.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR TIANYI ZHENG IN MATHEMATICS	70,000.
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO 513 PARNASSUS AVE, HSE 1001F SAN FRANCISCO, CA 94143	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SAUL KATO IN NEUROSCIENCE	70,000.
UNIVERSITY OF CALIFORNIA, SANTA BARBARA BROIDA HALL SANTA BARBARA, CA 93106-9530	NONE PC	TO DOCUMENT AND STUDY THE HISTORIES OF THE R AND PYTHON PROGRAMMING LANGUAGES	115,115.
UNIVERSITY OF CALIFORNIA, SANTA BARBARA BROIDA HALL SANTA BARBARA, CA 93106-9530	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR THOMAS SPRAGUE IN NEUROSCIENCE	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, SANTA BARBARA BROIDA HALL SANTA BARBARA, CA 93106-9530	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR XIN ZHOU IN MATHEMATICS	70,000.
UNIVERSITY OF CANBERRA 11 KIRINARI ST, BRUCE AUSTRALIAN CAPITAL TERRITORY AUSTRALIA 2617	NONE NC	TO STUDY THE ECONOMICS AND MAINTENANCE OF DIGITAL INFRASTRUCTURE BY EXPLORING THE RELATIONSHIP BETWEEN WAGED AND VOLUNTEER LABOR IN OPEN SOURCE PROJECTS	135,373.
UNIVERSITY OF CENTRAL FLORIDA 4000 CENTRAL FLORIDA BOULEVARD ORLANDO, FL 32816	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR XIAOFENG FENG IN CHEMISTRY	70,000.
UNIVERSITY OF COLORADO, BOULDER 430 UCB BOULDER, CO 80309-0430	NONE PC	TO INVESTIGATE THE SOURCES AND PROCESSES THAT INFLUENCE THE COMPOSITION OF ORGANIC CHEMICALS IN INDOOR ENVIRONMENTS THROUGH LABORATORY, FIELD, AND MODELING STUDIES	115,000.
UNIVERSITY OF COLORADO, BOULDER 430 UCB BOULDER, CO 80309-0430	NONE PC	TO CONTINUE THE DEVELOPMENT OF COMMUNITY BUILDING AND DATA INFRASTRUCTURE FOR THE CHEMISTRY OF THE INDOOR ENVIRONMENTS (CIE) PROGRAM	375,000.
UNIVERSITY OF COLORADO, BOULDER 430 UCB BOULDER, CO 80309-0430	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SANDEEP SHARMA IN CHEMISTRY	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF COLORADO, BOULDER 430 UCB BOULDER, CO 80309-0430	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR EDWARD CHUONG IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	70,000.
UNIVERSITY OF DELAWARE 217 SHARP LAB NEWARK, DE 19716	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR XINFENG LIANG IN OCEAN SCIENCES, ORIGINALLY AWARDED TO THE UNIVERSITY OF SOUTH FLORIDA	60,078.
UNIVERSITY OF FLORIDA 207 GRINTER HALL, PO BOX 115500 GAINESVILLE, FL 32611-5500	NONE GOV	TO PROVIDE OPEN GEOGRAPHIC AND DEMOGRAPHIC DATA ABOUT PRECINCTS, AS WELL AS VISUALIZATION AND MAPPING SOFTWARE THAT CALLS ON THIS DATA, FOR USE BY SOCIAL SCIENTISTS, GOVERNMENT OFFICIALS, AND THE GENERAL PUBLIC	281,020.
UNIVERSITY OF FLORIDA 207 GRINTER HALL, PO BOX 115500 GAINESVILLE, FL 32611-5500	NONE GOV	TO PILOT THE ACQUISITION, INGESTION, AND STANDARDIZATION PROCESSES NECESSARY TO COMPILE A NATIONAL VOTER REGISTRATION DATABASE FOR USE BY ACADEMICS AND OFFICIALS CONDUCTING NON-PARTISAN RESEARCH	124,998.
UNIVERSITY OF GEORGIA 310 E. CAMPUS RD., TUCKER HALL 409 ATHENS, GA 30602-1589	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR RACHEL ROBERTS-GALBRAITH IN NEUROSCIENCE	70,000.
UNIVERSITY OF HAWAII 2680 WOODLAWN DR. HONOLULU, HI 96822	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DANIEL HUBER IN PHYSICS	70,000.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN 601 EAST JOHN STREET CHAMPAIGN, IL 61820	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JACQUELYN NORONHA-HOSTLER IN PHYSICS, ORIGINALLY AWARDED TO RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	35,996.
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN 601 EAST JOHN STREET CHAMPAIGN, IL 61820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR HAITHAM HASSANIEH IN COMPUTER SCIENCE	70,000.
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN 601 EAST JOHN STREET CHAMPAIGN, IL 61820	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DIWAKAR SHUKLA IN CHEMISTRY	70,000.
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN 601 EAST JOHN STREET CHAMPAIGN, IL 61820	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CHELSEA WALTON IN MATHEMATICS, ORIGINALLY AWARDED TO TEMPLE UNIVERSITY	28,565.
UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION 300 E MARKET STREET, SUITE 300 LOUISVILLE, KY 40202	NONE PC	TO SUPPORT A BOOK ABOUT CHARLES WILLSON PEALE, CREATOR OF A NATURAL HISTORY/ART MUSEUM IN REVOLUTIONARY-ERA AMERICA, AND HOW THE MUSEUM INFLUENCED THE PUBLIC'S PERCEPTION OF SCIENCE AND ART	15,350.
UNIVERSITY OF MARYLAND, BALTIMORE COUNTY 1000 HILLTOP CIRCLE BALTIMORE, MD 21250	NONE GOV	TO SUPPORT THE RESEARCH AND WRITING OF THE BOOK "HOW TO BUILD THE UNIVERSE USING ONLY NUMBERS," PUBLISHED BY W.W. NORTON	20,000.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF MARYLAND, COLLEGE PARK 3112 LEE BLDG., 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	TO INFORM THE DESIGN OF QUESTIONS TO LEARN ABOUT ALTERNATIVE WORK ARRANGEMENTS AMONG THE POPULATION AGE 50 PLUS AND PROVIDE NEW EVIDENCE ON THE ROLE OF THESE ARRANGEMENTS IN OLDER ADULTS' WORK LIVES	150,345.
UNIVERSITY OF MARYLAND, COLLEGE PARK 3112 LEE BLDG., 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ZOHREH DAVOUDI IN PHYSICS	70,000.
UNIVERSITY OF MARYLAND, COLLEGE PARK 3112 LEE BLDG., 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	TO UNDERTAKE A MULTIDISCIPLINARY STUDY TO ASSESS THE COSTS AND BENEFITS OF INSTALLING ELECTRIC HEAT PUMPS	200,000.
UNIVERSITY OF MARYLAND, COLLEGE PARK 3112 LEE BLDG., 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	TO DEVELOP MEASUREMENT TOOLS FOR ASSESSING PUBLIC ATTITUDES TOWARD POTENTIAL PRIVACY PROTECTION TECHNIQUES	1,975.
UNIVERSITY OF MASSACHUSETTS, AMHERST 120 GOVERNORS DR. AMHERST, MA 01003	NONE GOV	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KATHERINE WHITAKER IN PHYSICS, ORIGINALLY AWARDED TO THE UNIVERSITY OF CONNECTICUT	70,000.
UNIVERSITY OF MASSACHUSETTS, AMHERST 120 GOVERNORS DR. AMHERST, MA 01003	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MINGXU YOU IN CHEMISTRY	70,000.

ATTACHMENT 20



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF MASSACHUSETTS, AMHERST 120 GOVERNORS DR. AMHERST, MA 01003	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ROMAIN VASSEUR IN PHYSICS	70,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	TO SUPPORT A MULTIDISCIPLINARY RESEARCH PROJECT THAT EXAMINES THE IMPACT OF STORAGE ADDITIONS ON TRANSMISSION SYSTEM FREQUENCY REGULATION	49,284.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	TO USE AIRBORNE AND SATELLITE MEASUREMENTS TO MONITOR OFFSHORE ENERGY PRODUCTION AND NATURAL GAS FLARING	500,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ALISON NARAYAN IN CHEMISTRY	70,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ALEXANDRA ROSATI IN NEUROSCIENCE	70,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR REETUPARNA DAS IN COMPUTER SCIENCE	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF MINNESOTA 207 PLEASANT ST. SE MINNEAPOLIS, MN 55455	NONE GOV	TO LAUNCH AND EXPAND A CROSS-INSTITUTIONAL STAFFING MODEL FOR CURATING DISCIPLINARY RESEARCH DATA	167,765.
UNIVERSITY OF NEBRASKA, OMAHA 6001 DODGE STREET EPPLEY ADMINISTRATION BUILDING OMAHA, NE 68182	NONE PC	TO ADVANCE UNDERSTANDING OF OPEN SOURCE PROJECT HEALTH AND SUSTAINABILITY AND HOW PEOPLE AND ORGANIZATIONS PROSPER FROM OPEN SOURCE WORK	225,838.
UNIVERSITY OF NEW HAMPSHIRE 23 ACADEMIC WAY PARSONS HALL DURHAM, NH 03824	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ELIZABETH HARVEY IN OCEAN SCIENCES, ORIGINALLY AWARDED TO THE UNIVERSITY OF GEORGIA	70,000.
UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL 104 AIRPORT DRIVE CHAPEL HILL, NC 27599-3250	NONE PC	TO EXAMINE THE ROLES OF DAMPNES, WATER SOLUBLE ORGANIC GASES, AND SURFACE CHEMISTRY ON INDOOR AIR COMPOSITION	250,000.
UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL 104 AIRPORT DRIVE CHAPEL HILL, NC 27599-3250	NONE PC	TO IMPROVE THE ABILITY TO CURATE AND VERIFY REPLICATION DATASETS WITHIN THE DATAVERSE DATA ARCHIVING PLATFORM BY INTEGRATING COMPUTATIONAL NOTEBOOKS AND SOFTWARE CONTAINERIZATION WITH DATA CURATION WORKFLOWS	202,111.
UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL 104 AIRPORT DRIVE CHAPEL HILL, NC 27599-3250	NONE PC	TO DISSEMINATE KEY RESULTS FROM THE CHEMISTRY OF INDOOR ENVIRONMENTS PROGRAM AT THE 6TH INDOOR AND WORKPLACE AEROSOLS CONFERENCE	25,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL 104 AIRPORT DRIVE CHAPEL HILL, NC 27599-3250	NONE PC	TO STUDY, BY COMPILING A NOVEL DATABASE, HOW AND WHY ENTREPRENEURS BECOME SCIENCE PHILANTHROPISTS	49,590.
UNIVERSITY OF NOTRE DAME 400 MAIN BUILDING NOTRE DAME, IN 46556	NONE PC	TO MEASURE THE LEVELS OF POLY-FLUOROALKYL SUBSTANCES (PFAS) IN INDOOR FACILITIES AND EXAMINE THEIR RATES OF TRANSFORMATION UNDER CONDITIONS COMMONLY FOUND IN INDOOR FACILITIES	50,000.
UNIVERSITY OF NOTRE DAME 400 MAIN BUILDING NOTRE DAME, IN 46556	NONE PC	TO SUPPORT THE RESEARCH AND WRITING OF MARY SHELLEY AND THE POLITICS OF MAKING ARTIFICIAL LIFE, TO BE PUBLISHED BY THE UNIVERSITY OF PENNSYLVANIA PRESS BY 2021	33,467.
UNIVERSITY OF NOTRE DAME 400 MAIN BUILDING NOTRE DAME, IN 46556	NONE PC	TO IMPROVE METADATA STANDARDS AND DATA MANAGEMENT TOOLS FOR USE BY RESEARCHERS CAPTURING DATA VIA SMALL UNMANNED AIRCRAFT FLIGHTS	197,364.
UNIVERSITY OF OREGON 1585 E 13TH AVE. EUGENE, OR 97403	NONE GOV	TO ANALYZE DATA FROM A RANDOMIZED FIELD EXPERIMENT TO EVALUATE HOW DYNAMIC PRICING PROGRAMS INTERACT AND IMPACT HOUSEHOLD ELECTRICITY CONSUMPTION	44,760.
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	TO DEVELOP, ANALYZE, AND EVALUATE DATA SCIENCE ALGORITHMS THAT PROVABLY PROTECT PRIVACY WHILE AVOIDING OVERFITTING AND FALSE DISCOVERY	100,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DAVI MAXIMO IN MATHEMATICS	70,000.
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JESSICA ANNA IN CHEMISTRY	70,000.
UNIVERSITY OF PITTSBURGH 3700 O'HARA STREET PITTSBURGH, PA 15261	NONE PC	TO DEVELOP SOFTWARE AND SERVICES FOR TRANSFORMING MATHEMATICAL RESULTS AS THEY APPEAR IN JOURNAL ARTICLE ABSTRACTS INTO FORMALLY STRUCTURED DATA THAT MACHINES CAN READ, PROCESS, SEARCH, CHECK, COMPUTE WITH, AND LEARN FROM AS LOGICAL STATEMENTS	222,967.
UNIVERSITY OF PUERTO RICO CALL BOX 9000 MAYAGUEZ PUERTO RICO 681	NONE GOV	TO ENHANCE THE RESEARCH SKILLS AND PRODUCTIVITY OF PH.D. CANDIDATES IN 8 STEM FIELDS AT UPR-MAYAGUEZ TO COMPENSATE FOR CAMPUS DAMAGE DURING HURRICANE MARIA (2017)	100,000.
UNIVERSITY OF RHODE ISLAND 79 UPPER COLLEGE RD KINGSTON, RI 02881	NONE GOV	TO SUPPORT ENGAGEMENT: THE DEEP CARBON OBSERVATORY'S ROAD TO 2019	299,795.
UNIVERSITY OF ROCHESTER MELIORA HALL, RC 270268 ROCHESTER, NY 14627-0268	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NANCY CHEN IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	70,000.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF ROCHESTER MELIORA HALL, RC 270268 ROCHESTER, NY 14627-0268	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ELLEN MATSON IN CHEMISTRY	70,000.
UNIVERSITY OF SASKATCHEWAN 110 SCIENCE PLACE, SASKATOON SASKATCHEWAN CANADA S7N 5C9	NONE PC	TO EXAMINE PHOTON FLUXES, OXIDANTS, AND OXIDANT PRECURSORS IN INDOOR ENVIRONMENTS	270,405.
UNIVERSITY OF SOUTHERN CALIFORNIA 1050 CHILD WAY, RRI 201 (MCB) LOS ANGELES, CA 90089	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CARLY KENKEL IN OCEAN SCIENCES	70,000.
UNIVERSITY OF SOUTHERN CALIFORNIA 1050 CHILD WAY, RRI 201 (MCB) LOS ANGELES, CA 90089	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MAHDI SOLTANOLKOTABI IN MATHEMATICS	70,000.
UNIVERSITY OF SOUTHERN CALIFORNIA 1050 CHILD WAY, RRI 201 (MCB) LOS ANGELES, CA 90089	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SMARANDA MARINESCU IN CHEMISTRY	70,000.
UNIVERSITY OF TENNESSEE 1 CIRCLE PARK KNOXVILLE, TN 37996	NONE GOV	TO UNDERSTAND THE RELATIONSHIP BETWEEN CUSTOMER INCENTIVES TO INVEST IN DISTRIBUTED SOLAR GENERATION AND UTILITY INCENTIVES TO INVEST IN NEW RESOURCE AND TRANSMISSION ASSETS	200,000.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W, TORONTO ONTARIO CANADA M5S 1S8	NONE PC	TO INVESTIGATE THE ROLE OF PHOTOCHEMISTRY INDOORS	245,345.
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W, TORONTO ONTARIO CANADA M5S 1S8	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR AARON REINKE IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	70,000.
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W, TORONTO ONTARIO CANADA M5S 1S8	NONE PC	TO PROVIDE RENEWED SUPPORT TO STUDY MULTIPHASE CHEMISTRY IN INDOOR ENVIRONMENTS	556,639.
UNIVERSITY OF VERMONT 85 S PROSPECT ST BURLINGTON, VT 05405	NONE PC	TO LOWER BARRIERS TO LARGE-SCALE RESEARCH COMPUTING THROUGH THE DEVELOPMENT OF A DISTRIBUTED, VOLUNTEER, IN-BROWSER SYSTEM FOR ELASTIC COMPUTING RESOURCES	226,371.
UNIVERSITY OF VIRGINIA P.O. BOX 400325 CHARLOTTESVILLE, VA 22904-4325	NONE PC	TO CONDUCT TECHNICAL RESEARCH ON IMPROVING THE ACCURACY AND COST-EFFECTIVENESS OF THE 2030 DECENNIAL CENSUS AND THE AMERICAN COMMUNITY SURVEY	125,000.
UNIVERSITY OF VIRGINIA P.O. BOX 400325 CHARLOTTESVILLE, VA 22904-4325	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KENT YAGI IN PHYSICS	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF VIRGINIA P.O. BOX 400325 CHARLOTTESVILLE, VA 22904-4325	NONE PC	TO SUPPORT DEVELOPMENT ON SCHOLIA, A SOFTWARE TOOL TO FACILITATE THE EXPLORATION AND CURATION OF THE RESEARCH LITERATURE	297,932.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	TO IMPROVE THE CAPACITY OF DATA INFRASTRUCTURES TO PROVIDE ACCESS TO AND SHARING OF SENSITIVE QUALITATIVE DATA	211,799.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	TO SUPPORT AN ENDOWED PROFESSORSHIP FOR DR. ANN NELSON IN THE DEPARTMENT OF PHYSICS HONORING HER LEGACY OF ADVOCACY FOR DIVERSITY AND INCLUSION IN THE FIELD OF PHYSICS	50,000.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR SHAYAN OVEIS GHARAN IN COMPUTER SCIENCE	70,000.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR STEFANO TESSARO IN COMPUTER SCIENCE, ORIGINALLY AWARDED TO THE UNIVERSITY OF CALIFORNIA, SANTA BARBARA	60,000.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR KELLEY HARRIS IN COMPUTATIONAL & EVOLUTIONARY MOLECULAR BIOLOGY	70,000.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR DR. SARA MAXWELL IN OCEAN SCIENCES, ORIGINALLY AWARDED TO OLD DOMINION UNIVERSITY	18,516.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	TO STUDY THE ECONOMICS AND MAINTENANCE OF DIGITAL INFRASTRUCTURE BY MEASURING THE UNDERPRODUCTION THAT RESULTS FROM MISALIGNMENT OF SUPPLY AND DEMAND OF OPEN SOURCE LABOR	139,993.
UNIVERSITY OF WATERLOO 200 UNIVERSITY AVE W, WATERLOO ONTARIO CANADA N2L 3G1	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR CHRISTINE MUSCHIK IN PHYSICS	70,000.
UNIVERSITY OF WISCONSIN, MADISON 21 NORTH PARK STREET, SUITE 6401 MADISON, WI 53715-1218	NONE GOV	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR ILIAS DIAKONIKOLAS IN COMPUTER SCIENCE, ORIGINALLY AWARDED TO THE UNIVERSITY OF SOUTHERN CALIFORNIA	32,814.
UNIVERSITY OF WISCONSIN, MADISON 21 NORTH PARK STREET, SUITE 6401 MADISON, WI 53715-1218	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MIHAELA IFRIM IN MATHEMATICS	70,000.
UNIVERSITY OF WISCONSIN, MADISON 21 NORTH PARK STREET, SUITE 6401 MADISON, WI 53715-1218	NONE GOV	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BOTONG WANG IN MATHEMATICS	70,000.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF ZURICH RAMISTRASSE ZURICH SWITZERLAND 80	NONE NC	TO SUPPORT RESEARCH ON THE PROCESSES BY WHICH RESEARCHERS CONSTRUCT SURVEY INSTRUMENTS FOR THE STUDY OF INTERNET USES	49,886.
UPJOHN INSTITUTE FOR EMPLOYMENT RESEARCH 300 SOUTH WESTNEDGE AVENUE KALAMAZOO, MI 49007	NONE PC	TO INCREASE THE IMPACT OF THE NEW PROGRAM ON THE IMPACT OF OUTSOURCING, THROUGH THE CREATION OF A TOPICAL RESEARCH NETWORK	125,000.
URBAN INSTITUTE 500 L'ENFANT PLAZA SW WASHINGTON, DC 20024	NONE PC	TO ASSESS AND BETTER UNDERSTAND THE LABOR SUPPLY, ECONOMIC AND HEALTH IMPACTS OF PAID FAMILY LEAVE POLICIES ON OLDER WORKING ADULTS WHO PROVIDE CARE TO ELDERLY FAMILY MEMBERS	176,162.
URBAN INSTITUTE 500 L'ENFANT PLAZA SW WASHINGTON, DC 20024	NONE PC	TO PROVIDE FEDERAL AND STATE POLICYMAKERS WITH THE NECESSARY INFORMATION TO INFORM SOUND POLICIES THAT ELIMINATE WORK DISINCENTIVES AT OLDER AGES, FACILITATE PAID EMPLOYMENT FOR OLDER ADULTS, AND IMPROVE OLDER ADULTS' FINANCIAL SECURITY	170,154.
UTAH STATE UNIVERSITY 1415 OLD MAIN HILL LOGAN, UT 84322-1415	NONE PC	TO SUPPORT DR. TIANBIAO LIU IN UNDERTAKING A COLLABORATIVE RESEARCH PROJECT ON AQUEOUS FLOW BATTERIES, RESULTING FROM THE 2018 SCIALOG CONFERENCE ON ADVANCED ENERGY STORAGE	36,666.
VANDERBILT UNIVERSITY 2201 WEST END AVE NASHVILLE, TN 37235	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MARTA VERWEIJ IN PHYSICS	70,000.

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FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
VERSE VIDEO EDUCATION, INC. 207 FISHER AVE BROOKLINE, MA 02445	NONE PC	TO SUPPORT THE PRODUCTION OF TWO SCIENCE-THEMED EPISODES OF POETRY IN AMERICA, A PUBLIC TELEVISION SERIES TO ENHANCE APPRECIATION OF POETRY	300,000.
VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY 1650 RESEARCH CENTER DR BLACKSBURG, VA 24061	NONE GOV	TO SUPPORT A WORKSHOP ON VIRUSES IN THE BUILT ENVIRONMENT	30,000.
VIRGINIA POSTREL 1830 KELTON AVE. #2 LOS ANGELES, CA 90025	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF THE FABRIC OF CIVILIZATION TO BE PUBLISHED BY BASIC BOOKS IN 2020	20,000.
WASHINGTON CENTER FOR EQUITABLE GROWTH 1156 15TH STREET NW, SUITE 700 WASHINGTON, DC 20005	NONE PC	TO FUND AN RFP FOCUSED ON ADVANCING RESEARCH ON OUTSOURCING AND ITS IMPACT ON U.S. WORKERS	13,924.
WASHINGTON STATE UNIVERSITY PO BOX 642814 PULLMAN, WA 99164-2814	NONE PC	TO SUPPORT A MULTIDISCIPLINARY RESEARCH PROJECT THAT EXAMINES THE IMPACT OF DEMAND RESPONSE PROGRAMS ON DISTRIBUTION SYSTEMS	49,785.
WASHINGTON UNIVERSITY IN ST. LOUIS 1 BROOKINGS DR. ST. LOUIS, MO 63130-4899	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JASON YI IN NEUROSCIENCE	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WGBH EDUCATIONAL FOUNDATION ONE GUEST STREET BOSTON, MA 02135	NONE PC	TO SUPPORT THE PRODUCTION OF FOUR PRIME TIME AMERICAN EXPERIENCE DOCUMENTARY FILMS ABOUT THE ROLE OF SCIENCE AND TECHNOLOGY IN HISTORY	500,000.
WGBH EDUCATIONAL FOUNDATION ONE GUEST STREET BOSTON, MA 02135	NONE PC	TO SUPPORT THE PRODUCTION AND ASSOCIATED MARKETING AND PROMOTION OF FOUR PRIME TIME AMERICAN EXPERIENCE DOCUMENTARY FILMS ABOUT THE ROLE OF SCIENCE AND TECHNOLOGY IN HISTORY	1,000,000.
WHITNEY MUSEUM OF AMERICAN ART 99 GANSEVOORT STREET NEW YORK, NY 10014	NONE PC	TO SUPPORT A MAJOR EXHIBITION ON THE INTERSECTION OF ART AND TECHNOLOGY FROM THE 1960S UNTIL TODAY	50,000.
WIKIMEDIA FOUNDATION 1 MONTGOMERY STREET, SUITE 1600 SAN FRANCISCO, CA 94104	NONE PC	TO SUPPORT THREE YEARS OF WORKSHOPS, HACKATHONS, AND OUTREACH AT THE INTERSECTION OF ACADEMIC CITATION, BIBLIOGRAPHIC METADATA, AND WIKIPEDIA	66,667.
WNET 825 EIGHTH AVENUE, 14TH FLOOR NEW YORK, NY 10019	NONE PC	TO SUPPORT A TWO-HOUR PUBLIC TELEVISION BROADCAST OF A MULTIMEDIA LIVE STAGE PLAY ABOUT ALBERT EINSTEIN'S JOURNEY TO THE GENERAL THEORY OF RELATIVITY	350,000.
WNET 825 EIGHTH AVENUE, 14TH FLOOR NEW YORK, NY 10019	NONE PC	TO SUPPORT A THREE-PART TELEVISION SERIES BROADCAST AND ACCOMPANYING OUTREACH ON THE ENGINEERING AND TECHNOLOGY OF LAGUARDIA AIRPORT, WITH A FOCUS ON THE CURRENT NEW TERMINAL PROJECT	-250,000.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WOMEN MAKE MOVIES, INC. 115 W 29TH ST., SUITE 1200 NEW YORK, NY 10001-5059	NONE PC	TO SUPPORT THE DEVELOPMENT OF A TV OR WEB-BASED SERIES FEATURING SCIENCE AND TECHNOLOGY INNOVATORS FROM UNDERREPRESENTED GROUPS	50,000.
WOMEN MAKE MOVIES, INC. 115 W 29TH ST., SUITE 1200 NEW YORK, NY 10001-5059	NONE PC	TO SUPPORT THE PRODUCTION OF "THE EYES TO SEE," DOCUMENTARY FILM ABOUT BIAS AND DISCRIMINATION AGAINST WOMEN IN SCIENCE	149,929.
WOMEN MAKE MOVIES, INC. 115 W 29TH ST., SUITE 1200 NEW YORK, NY 10001-5059	NONE PC	TO SUPPORT A FEATURE DOCUMENTARY ABOUT THE BIAS ENCODED IN AUTOMATED DECISION-MAKING AND MACHINE-LEARNING ALGORITHMS, BASED ON THE WORK OF JOY BUOLAMWINI	200,000.
WOMEN MAKE MOVIES, INC. 115 W 29TH ST., SUITE 1200 NEW YORK, NY 10001-5059	NONE PC	TO SUPPORT THE PRODUCTION OF A FEATURE-LENGTH DOCUMENTARY ON NEUROLOGIST PHIL KENNEDY, A PIONEER IN BRAIN-COMPUTER INTERFACING, AND HOW TECHNOLOGY IS AFFECTING OUR BRAINS	60,000.
WOODROW WILSON INTERNATIONAL CENTER FOR SCHOLARS ONE WOODROW WILSON PLAZA 1300 PENNSYLVANIA AVENUE, N.W. WASHINGTON, DC 20004-3027	NONE PC	TO UNDERSTAND THE CURRENT CAPACITY AND FUTURE POTENTIAL FOR LOW-COST HARDWARE TO ACCELERATE SCIENCE AND BROADEN PARTICIPATION IN SCIENTIFIC RESEARCH	329,026.
WOODROW WILSON INTERNATIONAL CENTER FOR SCHOLARS ONE WOODROW WILSON PLAZA 1300 PENNSYLVANIA AVENUE, N.W. WASHINGTON, DC 20004-3027	NONE PC	TO BETTER UNDERSTAND HOW CREATIVE, PRIVATE SECTOR, GOVERNMENT, AND RESEARCH COMMUNITIES PERCEIVE THE OPPORTUNITIES AND LIMITATIONS FOR USING DEMOCRATIZED HARDWARE IN LARGE-SCALE ENVIRONMENTAL RESEARCH CAMPAIGNS	43,209.

ATTACHMENT 20

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	TO EXPAND EMULATION AND SOFTWARE PRESERVATION INFRASTRUCTURE IN ORDER TO ENSURE THAT SOFTWARE AND SOFTWARE-DEPENDENT DIGITAL CONTENT IS ACCESSIBLE BY FUTURE GENERATIONS	400,000.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	TO ACCELERATE SCIENTIFIC DISCOVERY BY USING STATISTICAL MACHINE LEARNING TO ENABLE ADVANCED SEARCH OF MATHEMATICAL LITERATURE	370,840.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	TO SUPPORT THE INAUGURAL ACM SYMPOSIUM ON COMPUTER SCIENCE AND LAW AND LAUNCH THE ACM'S EFFORTS IN THIS FIELD	15,000.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR PHILIPP STRACK IN ECONOMICS, ORIGINALLY AWARDED TO THE UNIVERSITY OF CALIFORNIA, BERKELEY	70,000.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR YANG CAI IN COMPUTER SCIENCE, ORIGINALLY AWARDED TO MCGILL UNIVERSITY	70,000.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR HAILIANG WANG IN CHEMISTRY	70,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 20 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR MENG CHENG IN PHYSICS	70,000.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR NIR NAVON IN PHYSICS	70,000.
YARN LABS 245 MAIN STREET, 3RD FL. CAMBRIDGE, MA 02142	NONE PC	TO ENABLE RESEARCH ON THE INNOVATION PROCESS, FROM INITIAL FUNDING THROUGH ECONOMIC IMPACTS, BY COMPILING, LINKING, AND DOCUMENTING COMPREHENSIVE DATASETS ABOUT PATENTS AND PATENTING	781,150.
YORK UNIVERSITY 4700 KEELE ST. KANEFF TWR, 5TH FL TORONTO ONTARIO CANADA M3J 1P3	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR JOEL ZYLBERBERG IN NEUROSCIENCE, ORIGINALLY AWARDED TO THE UNIVERSITY OF COLORADO, DENVER	43,282.
TOTAL CONTRIBUTIONS PAID			<u>82,731,034.</u>

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ADLER PLANETARIUM 1300 S LAKE SHORE DRIVE CHICAGO, IL 60605	NONE PC	TO ENGAGE FAITH-BASED AND INTERFAITH COMMUNITIES WITH SCIENTIFIC RESEARCH THROUGH CITIZEN SCIENCE PROJECTS ON ZOONIVERSE	24,791.
AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE 1200 NEW YORK AVENUE, NW WASHINGTON, DC 20005	NONE PC	TO PILOT A CENTER FOR SCIENTIFIC EVIDENCE IN PUBLIC ISSUES WHOSE REPORTS ON POLICY-RELEVANT SCIENTIFIC FINDINGS WILL BE IMPARTIAL, RESPECTED, TIMELY, AND INFORMED BY EXPERTISE IN THE SOCIAL AND BEHAVIORAL SCIENCES	250,251.
AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE 1200 NEW YORK AVENUE, NW WASHINGTON, DC 20005	NONE PC	TO CONTINUE TO PROMOTE THE PROFESSIONALIZATION AND INSTITUTIONALIZATION OF THE ROLE OF THE COMMUNITY ENGAGEMENT MANAGER IN SCIENTIFIC SOCIETIES AND LARGE-SCALE RESEARCH COLLABORATIONS	410,446.
AMERICAN FILM INSTITUTE 2021 NORTH WESTERN AVENUE LOS ANGELES, CA 90027	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	115,000.
AMERICAN FRIENDS OF TOULOUSE SCHOOL OF ECONOMICS C/O SARATOGA ASSOCIATES 116 WEST MAIN STREET, SUITE 302 SALISBURY, MD 21801	NONE PC	TO BUILD OUT AN OPEN-SOURCE PLATFORM FOR REPRODUCIBLY RUNNING LARGE-SCALE BEHAVIORAL EXPERIMENTS BOTH ONLINE AND IN THE LABORATORY	100,000.
AMERICAN GEOPHYSICAL UNION 2000 FLORIDA AVENUE, NW WASHINGTON, DC 20009	NONE PC	TO ADDRESS SEXUAL HARASSMENT AND OTHER RELATED MATTERS THAT AFFECT GENDER INCLUSION THROUGH NEW EDUCATIONAL RESOURCES AND VALIDATED MEASUREMENT TOOLS	580,200.

ATTACHMENT 21

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
AMERICAN INSTITUTE OF PHYSICS CENTER FOR HISTORY OF PHYSICS ONE PHYSICS ELLIPSE COLLEGE PARK, MD 20740	NONE PC	TO SUPPORT GLOBAL, DIGITAL ACCESS TO THE WENNER COLLECTION ON THE HISTORY OF PHYSICS VIA DETAILED CATALOGING, DESCRIPTION, ONLINE AVAILABILITY, AND INITIAL OUTREACH	446,697.
AMERICAN MUSEUM OF THE MOVING IMAGE 36-01 35TH AVENUE ASTORIA, NY 11106	NONE PC	TO MAINTAIN THE COMPREHENSIVE, UP-TO-DATE, GO-TO SITE FOR THE NATIONWIDE SLOAN FILM PROGRAM, ITS PARTNERS, AND 600+ FILM PROJECTS AND TO DEVELOP RELATED OUTREACH, EVENTS, AND EDUCATIONAL MATERIALS FOR STUDENTS, TEACHERS, AND THE GENERAL PUBLIC	293,300.
AMERICAN STATISTICAL ASSOCIATION 1429 DUKE STREET ALEXANDRIA, VA 22314-3415	NONE PC	TO RECRUIT, TRAIN, PLACE, AND SUPPORT ACADEMIC STATISTICIANS AND DATA SCIENTISTS WHO WILL WORK AS AAAS FELLOWS IN THE FEDERAL GOVERNMENT	449,391.
AMERICAN UNIVERSITY 4400 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20016-8061	NONE PC	TO INCORPORATE A BROAD PORTFOLIO OF NEGATIVE EMISSIONS TECHNOLOGIES INTO EXISTING INTEGRATED ASSESSMENT MODELS	300,000.
ART OF PROBLEM SOLVING INITIATIVE, INC. 55 EXCHANGE PLACE, SUITE 603 NEW YORK, NY 10005	NONE PC	TO PROVIDE RENEWED PARTIAL SUPPORT FOR THE BEAM 6 PROGRAM	100,000.
ASSOCIATION OF AMERICAN UNIVERSITIES 1200 NEW YORK AVE, NW, SUITE 550 WASHINGTON, DC 20005	NONE PC	TO CONSTRUCT MORE STUDENT-CENTERED EDUCATIONAL ENVIRONMENTS FOR ALL GRADUATE STUDENTS BY ACTIVE INSTITUTIONAL AND DEPARTMENTAL SUPPORT FOR A VARIETY OF CAREER OPTIONS AND FOR INCREASED INCLUSION OF STUDENTS FROM UNDERREPRESENTED GROUPS	51,550.

ATTACHMENT 21



FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ASTROPHYSICAL RESEARCH CONSORTIUM U OF WASHINGTON, BOX 351580 C/O DEPT OF ASTRONOMY SEATTLE, WA 98195	NONE PC	TO UNDERTAKE THE SLOAN DIGITAL SKY SURVEY V (SDSS-V), WHICH WILL UTILIZE ALL-SKY SPECTROSCOPIC OBSERVATIONS TO EXPLAIN THE GENESIS OF THE MILKY WAY AND ITS NEIGHBORS, COMPREHENSIVELY TEST STELLAR ASTROPHYSICS AND STAR-PLANET RELATIONS, PROBE SUPERMASSIVE BLACK HOLE PHYSICS, AND MAP, ON UNPRECEDENTED SCALES, THE MILKY WAY'S INTERSTELLAR GAS AND THAT OF NEARBY GALAXIES	6,500,000.
ASTROPHYSICAL RESEARCH CONSORTIUM U OF WASHINGTON, BOX 351580 C/O DEPT OF ASTRONOMY SEATTLE, WA 98195	NONE PC	TO CONTINUE SUPPORT FOR THE FACULTY AND STUDENT TEAM (FAST) PROGRAM WITHIN THE SLOAN DIGITAL SKY SURVEY (SDSS) THAT AIMS TO INCREASE THE NUMBER OF UNDERREPRESENTED MINORITY STUDENTS AND FACULTY IN THE COLLABORATION AND INCREASE THE NUMBER OF STUDENTS PURSUING ASTRONOMY PH.D. PROGRAMS	130,000.
AUSTRALIAN NATIONAL UNIVERSITY FOUNDATION 1000 N WEST STREET, #1200 WILMINGTON, DE 19801	NONE PC	TO BUILD, ENHANCE, AND PROMOTE A NEW PATH TO DOCUMENT CREATION AND PUBLISHING FOR NEXT-GENERATION SCIENTIFIC TEXTBOOKS AND LECTURES	545,375.
BARNARD COLLEGE 3009 BROADWAY NEW YORK, NY 10027-6598	NONE PC	TO SUPPORT THE LEADING WOMEN'S FILM FESTIVAL, THE ATHENA FILM FESTIVAL AT BARNARD, WITH MORE WOMEN-IN-STEM PROGRAMMING	100,000.
BARNARD COLLEGE AND COLUMBIA ENGINEERING 3009 BROADWAY NEW YORK, NY 10027-6598	NONE PC	TO SHAPE AND IMPLEMENT A PROGRAM TO BUILD UNDERGRADUATE SCIENCE AND MATH PIPELINES TO ENGINEERING DEGREES AT THE MASTER'S LEVEL, AIMED PARTICULARLY AT WOMEN AND UNDERREPRESENTED MINORITY STUDENTS	250,000.

ATTACHMENT 21

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BENJAMIN EHRLICH 2176 ELLERY AVENUE FORT LEE, NJ 07627	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF THE BRAIN THAT DISCOVERED ITSELF, ABOUT THE FATHER OF NEUROSCIENCE SANTIAGO RAMON Y CAJAL, TO BE PUBLISHED BY FARRAR, STRAUS AND GIROUX IN FALL 2020	5,000.
BIOBUS 1361 AMSTERDAM AVE STE 340 NEW YORK, NY 10027	NONE PC	TO PROVIDE RENEWED SUPPORT TO EXPAND ACTIVITIES WHILE CREATING THE PHYSICAL, FUNDRAISING, AND EVALUATION INFRASTRUCTURE TO ENSURE SUSTAINABLE GROWTH	500,000.
BOSTON COLLEGE 140 COMMONWEALTH AVE, JOYCE HOUSE CHESTNUT HILL, MA 02467	NONE PC	TO STRENGTHEN NETWORK MEMBER ENGAGEMENT OF THE SLOAN RESEARCH NETWORK AND SUCCESSFULLY TRANSITION TO A NEW STRUCTURE AND LEADERSHIP	117,764.
BOSTON COLLEGE 140 COMMONWEALTH AVE, JOYCE HOUSE CHESTNUT HILL, MA 02467	NONE PC	TO EVALUATE OLDER WORKERS' VALUE TO EMPLOYERS AND TO INFORM POLICYMAKERS AS TO ANY POTENTIAL HURDLES TO WORKING LONGER THAT RETIREES WILL FACE	132,702.
BOSTON UNIVERSITY 725 COMMONWEALTH AVENUE BOSTON, MA 02215	NONE PC	TO DEVELOP AND TEST NEW MODELING TECHNIQUES FOR STUDYING THE LONG-TERM IMPACT OF ARTIFICIAL INTELLIGENCE ON THE ECONOMY GENERALLY, AND ITS IMPACT ON HOUSEHOLD LABOR AND SAVING DECISIONS IN PARTICULAR	249,824.
BRANDEIS UNIVERSITY 415 SOUTH STREET, MS-062 WALTHAM, MA 02454-9110	NONE PC	TO EXPLORE A BROAD CONCEPTION OF OUTSOURCING - "FISSURING," THE SHIFT OF ACTIVITIES TRADITIONALLY DONE BY LEAD FIRMS IN U.S. ECONOMY TO OTHER BUSINESS ORGANIZATIONS - AND ITS EFFECTS ON A WIDE RANGE OF JOBS ACROSS THE SKILL AND EDUCATION SPECTRUM	249,800.

ATTACHMENT 21

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BROOKINGS INSTITUTION 1775 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO CONTINUE SUPPORTING THE PRODUCTION AND DISSEMINATION OF HIGH-QUALITY, INFLUENTIAL, AND POLICY-ORIENTED ECONOMICS RESEARCH THROUGH THE BROOKINGS PAPERS ON ECONOMIC ACTIVITY	333,000.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	TO DEVELOP, TEST, AND APPLY NEURO-ECONOMIC MODELS OF HOW DECISION-MAKERS SWITCH BETWEEN HABIT-DRIVEN AND GOAL-SEEKING BEHAVIORS	102,557.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	TO EVALUATE THE FEASIBILITY OF USING LASER COOLED AND TRAPPED YTTERBIUM HYDROXIDE MOLECULES FOR AN ULTRAPRECISE MEASUREMENT OF THE ELECTRON'S ELECTRIC DIPOLE MOMENT	1,511,058.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BLVD. PASADENA, CA 91125	NONE PC	TO EXAMINE THE ROLE OF AUTOXIDATION IN INDOOR ENVIRONMENTS	296,273.
CALIFORNIA POLYTECHNIC STATE UNIVERSITY ONE GRAND AVENUE SAN LUIS OBISPO, CA 93407	NONE PC	TO DEVELOP SOFTWARE AND OTHER COMPUTATIONAL RESEARCH INFRASTRUCTURE FOR PROVIDING SAFE AND SECURE ACCESS TO SENSITIVE DATA	574,986.
CANADIAN INSTITUTE FOR ADVANCED RESEARCH 661 UNIVERSITY AVENUE, SUITE 505 TORONTO ONTARIO CANADA M5G 1M1	NONE NC	TO CONNECT CAUSAL INFERENCE CONSIDERATIONS WITH ADVANCED RESEARCH ON LEARNING IN MACHINES AND BRAINS BY SPONSORING AN INTERDISCIPLINARY CONFERENCE AND A SERIES OF SMALL CATALYST GRANTS	237,500.

ATTACHMENT 21

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	100,000.
CENTER FOR STRATEGIC AND INTERNATIONAL STUDIES 1616 RHODE ISLAND AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO SUPPORT THE RESEARCH AND WRITING OF CHINA'S ROAD, A BOOK ON THE TECHNOLOGY AT THE CENTER OF CHINA'S BELT AND ROAD INITIATIVE, TO BE PUBLISHED BY YALE UNIVERSITY PRESS IN 2020	20,000.
CHARLES SEIFE 2 WASHINGTON SQ. VLG #2R NEW YORK, NY 10012	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF A NON-HAGIOGRAPHIC BIOGRAPHY OF STEPHEN HAWKING, PUBLISHED BY BASIC BOOKS BY 2022	20,000.
COLORADO SCHOOL OF MINES 1500 ILLINOIS STREET GOLDEN, CO 80401	NONE GOV	TO CONTINUE A SUMMER SCHOOL TRAINING PROGRAM THAT PROVIDES EARLY CAREER ECONOMISTS AND SOCIAL SCIENTISTS WITH AN UNDERSTANDING OF TECHNOLOGICAL DIMENSIONS OF ELECTRICITY DISTRIBUTION SYSTEMS	68,497.
COLORADO SCHOOL OF MINES 1500 ILLINOIS STREET GOLDEN, CO 80401	NONE GOV	TO PROVIDE PROGRAMMATIC AND ADMINISTRATIVE SUPPORT FOR A NEW MULTIDISCIPLINARY DOCTORAL TRAINING PROGRAM IN ADVANCED ENERGY SYSTEMS	175,000.
COLORADO STATE UNIVERSITY 1874 CAMPUS DELIVERY FORT COLLINS, CO 80523-6015	NONE GOV	TO FACILITATE GREATER HBCU AND HSI PARTICIPATION IN THE NOVEMBER 2020 REINVENTION COLLABORATIVE'S NATIONAL CONFERENCE AND LEADERS' MEETING	20,000.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO CONTINUE THE ENERGY JOURNALISM INITIATIVE AND EDUCATE JOURNALISTS ON RECENT RESEARCH TOPICS AND KEY FINDINGS RELATED TO ENERGY ECONOMICS, POLICY, SECURITY, AND TECHNOLOGY	65,000.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO CONDUCT EXPERIMENTS ON THE BEHAVIORAL WELFARE EFFECTS OF HETEROGENEOUS NUDGING	59,677.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO EXAMINE CARBON MINERALIZATION IN ROCK FORMATIONS FOR CARBON DIOXIDE REMOVAL FROM AIR AND FOR SOLID STORAGE	986,360.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO ENCOURAGE THE NEXT GENERATION OF FILMMAKERS TO WRITE SCREENPLAYS AND PRODUCE SHORT FILMS ABOUT SCIENCE AND TECHNOLOGY THROUGH ENHANCED RESEARCH, MENTORSHIP, AND AWARD OPPORTUNITIES	234,262.
COLUMBIA UNIVERSITY 116TH AND BROADWAY NEW YORK, NY 10027	NONE PC	TO SUPPORT THE CONTINUED DEVELOPMENT, MAINTENANCE, AND DISSEMINATION OF THE PROBABILISTIC PROGRAMMING LANGUAGE STAN	120,756.
CONSUMER REPORTS, INC. 101 TRUMAN AVENUE YONKERS, NY 10703	NONE PC	TO BUILD AND APPLY TOOLS AND RESEARCH METHODOLOGIES TO MAP THE COLLECTION, MANIPULATION, AND SHARING OF CONSUMER DATA ACROSS THREE INDUSTRIES-IOT, AUTOMOTIVE, AND DATA BROKERS-AND PROVIDE CONSUMERS WITH INFORMATION TO PROTECT THEIR PRIVACY AND SECURITY	501,250.

ATTACHMENT 21

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CONSUMER REPORTS, INC. 101 TRUMAN AVENUE YONKERS, NY 10703	NONE PC	TO SUPPORT SEGMENTS ON DIGITAL PRIVACY ON THE NATIONALLY BROADCAST TELEVISION SHOW CONSUMER 101	200,000.
COOLIDGE CORNER THEATRE FOUNDATION 290 HARVARD STREET BROOKLINE, MA 02446	NONE PC	TO SUSTAIN AND EXPAND THE NATIONAL SCIENCE ON SCREEN PROGRAM TO ALL 50 STATES, WITH A FOCUS ON EXTENDING ITS REACH TO IN-PERSON AUDIENCES	378,100.
CORNELL UNIVERSITY 373 PINE TREE ROAD ITHACA, NY 14850-2820	NONE PC	TO RESEARCH THE EFFECT OF FRANCHISING ON THE LABOR MARKET OUTCOMES OF MANAGERS AND FRONTLINE EMPLOYEES	34,439.
COUNCIL FOR ECONOMIC EDUCATION 122 EAST 42ND STREET, SUITE 2600 NEW YORK, NY 10168	NONE PC	TO PROMOTE ECONOMICS EDUCATION IN METROPOLITAN NEW YORK HIGH SCHOOLS BY RECOGNIZING INNOVATIVE TEACHERS, PROMOTING SUCCESSFUL PEDAGOGIES, AND MOTIVATING DIVERSE STUDENTS	306,154.
COUNCIL ON LIBRARY AND INFORMATION RESOURCES 1707 L STREET NW, SUITE 650 WASHINGTON, DC 20036-2124	NONE PC	TO SUPPORT A SECOND COHORT OF POSTDOCTORAL FELLOWS IN DATA CURATION FOR ENERGY ECONOMICS AT THREE LEADING ENERGY RESEARCH CENTERS	247,000.
DAN LEVITT 212 FAYERWEATHER STREET CAMBRIDGE, MA 02138	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF "WHAT'S GOTTEN INTO YOU: A HISTORY OF YOUR BODY FROM THE BIG BANG THROUGH LAST NIGHT'S DINNER," PUBLISHED BY FLATIRON PRESS IN 2020	24,000.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
DANIEL J. KEVLES 11 FIFTH AVENUE, APT. 11U NEW YORK, NY 10003	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF VITAL PROPERTIES, A BOOK ABOUT THE HISTORY OF INNOVATION AND INTELLECTUAL PROPERTY PROTECTION IN LIVING ORGANISMS, TO BE PUBLISHED BY ALFRED A. KNOPF IN 2020	24,000.
DARTMOUTH COLLEGE 11 ROPE FERRY ROAD HANOVER, NH 03755	NONE PC	TO STUDY, BY RUNNING BEHAVIORAL EXPERIMENTS, HOW CONSUMERS MAKE DECISIONS ABOUT INSURANCE PRODUCTS LIKE ANNUITIES	43,311.
DARTMOUTH COLLEGE 11 ROPE FERRY ROAD HANOVER, NH 03755	NONE PC	TO INVESTIGATE THE ROLE OF PLATFORMS IN CHANGING OUTSOURCING RELATIONSHIPS, LABOR MARKETS, AND WORKER OUTCOMES	249,998.
DIGITAL PUBLIC LIBRARY OF AMERICA, INC. P.O. BOX 426038 CAMBRIDGE, MA 02142	NONE PC	TO CONTINUE THE GROWTH OF DPLA EXCHANGE FOR ENHANCED EBOOK ACCESS BY THOUSANDS OF LIBRARIES WHILE DEVELOPING AN ONGOING REVENUE STREAM FOR DPLA'S FUTURE	710,542.
DIGITAL PUBLIC LIBRARY OF AMERICA, INC. P.O. BOX 426038 CAMBRIDGE, MA 02142	NONE PC	TO DEVELOP INFRASTRUCTURE FOR THE INGESTION OF DATA FROM NATIONAL AGGREGATORS INTO WIKIMEDIA COMMONS USING CONTENT FROM THE DIGITAL PUBLIC LIBRARY OF AMERICA IN A PILOT EFFORT	50,000.
DREXEL UNIVERSITY 3141 CHESTNUT ST PHILADELPHIA, PA 19104	NONE PC	TO EXAMINE THE CHEMICAL AND PHYSICAL TRANSFORMATIONS OCCURRING WITHIN A HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) SYSTEM	281,597.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
DRYAD P.O. BOX 585 DURHAM, NC 27702	NONE PC	TO SUPPORT THE INTEGRATION OF BOTH COMMUNITY AND TECHNOLOGY INITIATIVES IN A CENTRAL DATA CURATION HUB FOR BOTH RESEARCHERS AND INSTITUTIONS	476,936.
DUKE UNIVERSITY 124 SCIENCE DRIVE DURHAM, NC 27701	NONE PC	TO EXPAND AND BOLSTER INTERNATIONALLY LINKED SUMMER INSTITUTES ON COMPUTATIONAL SOCIAL SCIENCE FOR EARLY-CAREER RESEARCHERS	295,019.
DUKE UNIVERSITY 124 SCIENCE DRIVE DURHAM, NC 27701	NONE PC	TO ESTABLISH A MULTIDISCIPLINARY RESEARCH COLLABORATION STUDYING THE ROLE OF REGIONAL TRANSMISSION ORGANIZATIONS AND INDEPENDENT SYSTEMS OPERATORS IN ELECTRICITY MARKETS	263,839.
DUKE UNIVERSITY 124 SCIENCE DRIVE DURHAM, NC 27701	NONE PC	TRANSFER OF AN ALFRED P. SLOAN RESEARCH FELLOWSHIP FOR BENJAMIN ROSSMAN IN MATHEMATICS, ORIGINALLY AWARDED TO THE UNIVERSITY OF TORONTO	44,488.
DUKE UNIVERSITY 124 SCIENCE DRIVE DURHAM, NC 27701	NONE PC	TO FUND THE 2020 BLACKWELL-TAPIA CONFERENCE PROVIDING EARLY-CAREER MINORITY MATHEMATICIANS WITH ENHANCED UNDERSTANDING OF THEIR FIELD, NETWORKING WITH PEERS, AND INTERACTIONS WITH SENIOR RESEARCHERS	35,000.
ELIZABETH KOLBERT 326 OBLONG ROAD WILLIAMSTOWN, MA 01267	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF A BOOK ON TECHNOLOGIES AND STRATEGIES TO OVERCOME HUMAN IMPACT ON THE ENVIRONMENT	18,000.



FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ENSEMBLE STUDIO THEATRE, INC. 545 WEST 52ND STREET NEW YORK, NY 10019	NONE PC	TO COMMISSION, DEVELOP, PRODUCE AND DISSEMINATE NEW SCIENCE PLAYS IN NEW YORK AND ACROSS THE COUNTRY	1,280,000.
ENVIRONMENTAL DEFENSE FUND INC. 257 PARK AVENUE SOUTH NEW YORK, NY 10010	NONE PC	TO PROVIDE FINAL SUPPORT FOR A TRAINING AND NETWORKING PROGRAM FOR EARLY-CAREER ENERGY AND ENVIRONMENT PROFESSIONALS CONDUCTING ECONOMIC AND SCIENTIFIC RESEARCH IN APPLIED SETTINGS	300,000.
ENVIRONMENTAL LAW INSTITUTE 1730 M STREET, NW, SUITE 700 WASHINGTON, DC 20036	NONE PC	TO GENERATE NOVEL, MULTI-DISCIPLINARY RESEARCH TO INCREASE UNDERSTANDING OF THE ENERGY AND ENVIRONMENTAL IMPACTS OF THE DIGITAL ECONOMY, WITH A FOCUS ON SHARING PLATFORMS, ARTIFICIAL INTELLIGENCE, AND BLOCKCHAIN TECHNOLOGIES	100,000.
FOOD & ENVIRONMENT REPORTING NETWORK 576 FIFTH AVENUE, SUITE 903 NEW YORK, NY 10036	NONE PC	TO SUPPORT IMMERSIVE SCIENCE STORYTELLING ON FOOD AND AGRICULTURE VIA THE AWARD-WINNING, FEMALE-HOSTED GASTROPOD PODCAST	153,646.
FRIENDS OF INDEX ON CENSORSHIP PO BOX 842 FREDERICK, MD 21705	NONE PC	TO SUPPORT PARTICIPATION BY ACADEMIC AND NONPROFIT-BASED SOCIAL SCIENTISTS AT SOCIAL SCIENCE FOO CAMP	48,103.
FUND FOR THE CITY OF NEW YORK 121 AVENUE OF THE AMERICAS, 6TH FLR NEW YORK, NY 10013	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THE SLOAN PUBLIC SERVICE AWARDS PROGRAM	270,000.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FUND FOR THE CITY OF NEW YORK 121 AVENUE OF THE AMERICAS, 6TH FLR NEW YORK, NY 10013	NONE PC	TO PROVIDE RENEWED SUPPORT FOR THE SLOAN AWARDS FOR EXCELLENCE IN TEACHING MATHEMATICS AND SCIENCE IN NEW YORK CITY PUBLIC HIGH SCHOOLS	1,140,000.
GEORGETOWN UNIVERSITY 37TH & O STREET, NW WASHINGTON, DC 20057	NONE PC	TO PROMOTE THE SAFE AND RESPONSIBLE USE OF ADMINISTRATIVE DATA IN ACADEMIC RESEARCH BY ESTABLISHING AN ALLIANCE WHOSE MEMBER INSTITUTIONS INTERMEDIATE BETWEEN DATA PRODUCERS AND DATA USERS	975,927.
GEORGETOWN UNIVERSITY 37TH & O STREET, NW WASHINGTON, DC 20057	NONE PC	TO DEVELOP LINKAGE, DE-DUPLICATION, AND OTHER TOOLS THAT DEMONSTRATE HOW ADMINISTRATIVE DATA CAN IMPROVE THE ACCURACY OF DEMOGRAPHIC AND ECONOMIC RESEARCH	293,721.
GEORGIA INSTITUTE OF TECHNOLOGY 837 STATE STREET ATLANTA, GA 30332	NONE PC	TO STUDY EFFICACY PARAMETERS OF GEORGIA TECH'S ONLINE MASTER'S PROGRAM IN COMPUTER SCIENCE (OMSCS) AMONG MID-CAREER ADULTS WITH SPECIAL ATTENTION TO THE OUTCOMES OF WOMEN AND PEOPLE OF COLOR	150,000.
GEORGIA INSTITUTE OF TECHNOLOGY 837 STATE STREET ATLANTA, GA 30332	NONE PC	TO FORMALIZE DESCRIPTIVE DATA ASSOCIATED WITH RECEIPT OF SCHOLARSHIPS FROM THE SLOAN MINORITY PHD PROGRAM AND TO PRODUCE A FRAMEWORK FOR MEASURING STUDENT AND PROGRAM OUTCOMES	233,049.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO RENEW AN INTERDISCIPLINARY, POSTDOCTORAL TRAINING PROGRAM CALLED THE "SLOAN FELLOWSHIP ON AGING AND WORK" THAT ADDRESSES THE CHALLENGES OF AGING SOCIETIES AND LABOR FORCE PARTICIPATION	108,121.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO EXAMINE THE ROLE OF TECHNOLOGY AND KNOWLEDGE SPILLOVERS IN THE DEVELOPMENT OF NOVEL CLEAN ENERGY TECHNOLOGIES	198,435.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO DEVELOP NEW STATISTICAL METHODS THAT IMPROVE BOTH THE IDENTIFICATION OF CAUSAL EFFECTS IN OBSERVATIONAL STUDIES AS WELL AS THE GENERALIZABILITY OF RANDOMIZED EXPERIMENTS	110,561.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO BETTER UNDERSTAND HOW PRECISE ELECTRIC DIPOLE MOMENT MEASUREMENTS COULD GUIDE EFFORTS TO OBTAIN A MORE COMPLETE FUNDAMENTAL THEORY OF NATURE	332,999.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO SUPPORT RESEARCH ON THE EFFECTS OF A RANGE OF INSTITUTIONAL POLICIES AND PROGRAMS IN HIGHER EDUCATION ON FACULTY RETIREMENT DECISIONS	99,482.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO IMPROVE ACCESS TO AND PROVENANCE OF RESEARCH DATA, SOFTWARE, AND HARDWARE FROM CUBESAT MISSIONS	142,603.
HARVARD UNIVERSITY 12 OXFORD ST CAMBRIDGE, MA 02138	NONE PC	TO DEVELOP A ROBUST, TRUSTED, POPULAR, AND EXTENSIBLE LIBRARY OF OPEN-SOURCE SOFTWARE FOR PRIVACY-PROTECTING DATA ANALYSIS	442,419.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
HOPEWELL FUND 1201 CONNECTICUT AVE NW, STE. 300 WASHINGTON, DC 20036	NONE PC	TO ENABLE NETWORKS OF ACADEMIC DATA SCIENCE COMMUNITIES TO SHARE KNOWLEDGE, IDEAS, AND LESSONS LEARNED, THEREBY FACILITATING THE INSTITUTIONAL CHANGES NEEDED TO INTEGRATE DATA SCIENCE INTO UNIVERSITY RESEARCH AND TRAINING	1,000,000.
IMPERIAL COLLEGE LONDON FACULTY BUILDING, EXHIBITION ROAD LONDON UNITED KINGDOM SW7 2AZ	NONE PC	TO PRODUCE A SAMPLE OF OPTICALLY-TRAPPED, ULTRACOLD YTTERBIUM FLUORIDE MOLECULES THAT CAN BE USED TO PRECISELY MEASURE THE ELECTRON'S ELECTRIC DIPOLE MOMENT	777,098.
INDIANA UNIVERSITY 150 SOUTH WOODLAWN BLOOMINGTON, IN 47405	NONE PC	TO EXAMINE RADICAL CONCENTRATIONS AND ASSOCIATED AEROSOL PRODUCTION IN INDOOR ENVIRONMENTS	207,208.
ISLAND PRESS-CENTER FOR RESOURCE ECONOMICS 2000 M ST. NW, STE. 650 WASHINGTON, DC 20036	NONE PC	TO SUPPORT AN ILLUSTRATED EDITION OF BIOLOGIST E.O. WILSON'S AUTOBIOGRAPHY, NATURALIST, TO BE PUBLISHED BY ISLAND PRESS IN 2020	10,000.
JAIME GREENRING 500 ST. MARKS AVE., APT. 311 BROOKLYN, NY 11238	NONE I	TO SUPPORT THE RESEARCH AND WRITING OF "THE POSSIBILITY OF LIFE," PUBLISHED BY HANOVER SQUARE PRESS IN 2021	21,400.
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	TO FUND THE OPEN CHEMISTRY COLLABORATIVE IN DIVERSITY EQUITY (OXIDE) TO ADVANCE DIVERSITY AND INCLUSION, AND REDUCE DIVERSITY INEQUITIES THROUGHOUT THE ACADEMIC CAREER LADDER IN CHEMISTRY DEPARTMENTS NATIONWIDE	200,000.

ATTACHMENT 21

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
JOHNS HOPKINS UNIVERSITY 3400 N. CHARLES STREET BALTIMORE, MD 21218	NONE PC	TO DEVELOP A SPATIOTEMPORALLY DETAILED ENERGY SYSTEMS DATASET IN ORDER TO EXAMINE LAND USE REQUIREMENTS FOR DIFFERENT GENERATION TECHNOLOGIES	256,307.
L.A. THEATRE WORKS 681 VENICE BOULEVARD VENICE, CA 90291	NONE PC	TO RECORD FOUR NEW SLOAN PLAYS FOR PUBLIC RADIO BROADCAST AND ONLINE STREAMING AND A 12-PLAY PODCAST WHILE DISSEMINATING 16 SCIENCE PLAYS TO MILLIONS OF PEOPLE AND THOUSANDS OF LIBRARIES AND SCHOOLS	200,000.
MANHATTAN THEATRE CLUB 311 WEST 43RD STREET, 8TH FLOOR NEW YORK, NY 10036	NONE PC	TO SUPPORT THE MTC/SLOAN INITIATIVE COMMISSIONING, DEVELOPING, AND PRODUCING NEW SCIENCE AND TECHNOLOGY PLAYS	216,666.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO EXPLORE THE EFFECTS OF ROBOTS ON EMPLOYMENT, WAGES, AND PRODUCTIVITY	212,129.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO SUPPORT THE GROWTH OF TWELVE NEW SCIENCE FESTIVAL INITIATIVES IN COMMUNITIES ACROSS THE COUNTRY WITH SMALL RESOURCE BASES WITH A SPECIAL NEW EMPHASIS ON DIVERSITY	371,572.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO PRODUCE A COMPREHENSIVE, MULTIDISCIPLINARY FUTURE OF STORAGE STUDY THAT WILL CONSIDER THE ROLE KEY STORAGE TECHNOLOGIES MIGHT PLAY IN ELECTRICITY SYSTEMS OVER DIFFERENT TIME SCALES AND SERVICE REQUIREMENTS	125,000.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO PROMOTE THE RIGOROUS EMPIRICAL STUDY OF ECONOMIC ISSUES IN NORTH AMERICA BY HELPING RESEARCHERS DESIGN, PILOT, AND IMPLEMENT RANDOMIZED CONTROLLED TRIALS	1,377,726.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE CAMBRIDGE, MA 02139	NONE PC	TO IMPROVE POLICY-RELEVANT RESEARCH BY FACILITATING THE USE OF ADMINISTRATIVE DATA AMONG ECONOMISTS WHO DESIGN, RUN, AND ANALYZE RANDOMIZED CONTROLLED TRIALS	429,750.
MATHEMATICAL SCIENCES RESEARCH INSTITUTE 17 GAUSS WAY BERKELEY, CA 94720-5070	NONE PC	TO INCREASE THE NUMBER OF STUDENTS FROM UNDERREPRESENTED GROUPS IN MATHEMATICS GRADUATE PROGRAMS	146,500.
MICHIGAN STATE UNIVERSITY 619 RED CEDAR ROAD EAST LANSING, MI 48824	NONE PC	TO ASSESS THE CHARACTERISTICS OF DIFFERENT RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL LOAD TYPES AS POTENTIAL DEMAND RESPONSE RESOURCES	49,978.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO SUSTAIN THE SCIENCE AND ENTERTAINMENT EXCHANGE AND THE ROLE OF SCIENCE AND SCIENCE CONSULTANTS IN HOLLYWOOD AND TO PROVIDE SCIENCE ADVISORS FOR THE SLOAN FILM PROGRAM	150,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO UNDERTAKE A CONSENSUS STUDY EXAMINING THE TECHNOLOGICAL, POLICY, AND SOCIETAL DIMENSIONS OF DEEP DECARBONIZATION EFFORTS IN THE UNITED STATES	400,000.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET, NW WASHINGTON, DC 20001	NONE PC	TO REVIEW AND ASSESS THE AVAILABLE RESEARCH AND DATA ON THE LABOR MARKET PARTICIPATION OF OLDER WORKERS AND PROVIDE A ROADMAP FOR FUTURE RESEARCH ON AGING AND WORK	499,722.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. 1432 DUKE STREET ALEXANDRIA, VA 22314	NONE PC	TO PROVIDE SCHOLARSHIP SUPPORT FOR THE SLOAN INDIGENOUS GRADUATE PARTNERSHIP (SIGP) ENABLING CONSORTIUM MEMBERS TO RECRUIT, SUPPORT, AND GRADUATE INDIGENOUS STUDENTS EARNING GRADUATE DEGREES IN STEM DISCIPLINES	700,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. 1432 DUKE STREET ALEXANDRIA, VA 22314	NONE PC	TO SUPPORT SCHOLARSHIPS AND PROGRAM EXPENSES FOR A THREE-YEAR RENEWAL OF A UNIVERSITY CENTER OF EXEMPLARY MENTORING (UCEM) AT THE UNIVERSITY OF SOUTH FLORIDA	180,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. 1432 DUKE STREET ALEXANDRIA, VA 22314	NONE PC	TO SUPPORT A NEW ALFRED P. SLOAN MINORITY PH.D. (MPHD) UNIVERSITY CENTER OF EXEMPLARY MENTORING (UCEM) PROGRAM AT DUKE UNIVERSITY (COMBINING \$700,000 IN NEW FUNDING WITH \$300,000 IN UNSPENT NACME FUNDS)	350,000.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. 1432 DUKE STREET ALEXANDRIA, VA 22314	NONE PC	TO MANAGE EFFECTIVELY AND EFFICIENTLY THE FOUNDATION'S PORTFOLIO OF GRADUATE SCHOLARSHIP PROGRAMS	204,328.
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. 1432 DUKE STREET ALEXANDRIA, VA 22314	NONE PC	TO SUPPORT THE ALFRED P. SLOAN MINORITY PH.D. PROGRAM (MPHD) THROUGH PHASE 3 RENEWAL GRANTS FOR UNIVERSITY CENTERS OF EXEMPLARY MENTORING (UCEMS) AT MASSACHUSETTS INSTITUTE OF TECHNOLOGY, UNIVERSITY OF CALIFORNIA, SAN DIEGO AND THE UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	870,643.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NAT'L ACTION COUNCIL FOR MINORITIES IN ENGG., INC. 1432 DUKE STREET ALEXANDRIA, VA 22314	NONE PC	TO SUPPORT GRADUATE STUDENT FELLOWSHIPS, MENTORING, AND RELATED ACTIVITIES AT THE UNIVERSITY CENTERS OF EXEMPLARY MENTORING (UCEM) AT CORNELL UNIVERSITY, GEORGIA INSTITUTE OF TECHNOLOGY, AND PENNSYLVANIA STATE UNIVERSITY, AS WELL AS GENERAL UCEM SUPPORT	2,500,000.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO CONTINUE SUPPORT FOR PREDOCTORAL RESEARCH AND TRAINING FELLOWSHIPS IN ENERGY ECONOMICS	111,500.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO DEVELOP NEW DISSEMINATION CHANNELS FOR RIGOROUS, NONPARTISAN RESEARCH IN ENVIRONMENTAL AND ENERGY ECONOMICS THROUGH A NEW FORUMS FOR RESEARCH PRESENTATION AND PUBLICATION	100,000.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO BUILD A RESEARCH COMMUNITY ON THE ECONOMICS OF SCIENCE BY HOLDING REGULAR CONFERENCES AND BY OTHER COMMUNITY-BUILDING ACTIVITIES	180,136.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO DEVELOP AN ACTIVE AND DIVERSE RESEARCH COMMUNITY THAT STUDIES THE ECONOMICS OF ARTIFICIAL INTELLIGENCE	609,500.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO RENEW SUPPORT FOR A POSTDOCTORAL FELLOWSHIP PROGRAM FOCUSED ON THE LABOR MARKET CONSEQUENCES OF AN AGING POPULATION AND TO SUPPORT A SET OF RESEARCH PROJECTS DESIGNED TO PROVIDE NEW INSIGHTS ON THESE ISSUES	949,900.

ATTACHMENT 21



FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO SUPPORT RESEARCH AND DATA INFRASTRUCTURE CONCERNING THE ECONOMICS OF HOUSEHOLD FINANCE	326,215.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO PROVIDE PARTIAL SUPPORT FOR THOUSANDS OF PARTICIPANTS IN OVER 50 PROGRAMS THAT COMPRISE THE SUMMER INSTITUTE RUN ANNUALLY BY THE NATIONAL BUREAU OF ECONOMIC RESEARCH	646,444.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO ADVANCE UNDERSTANDING OF THE ECONOMICS OF ENERGY TECHNOLOGY INNOVATION	152,949.
NATIONAL BUREAU OF ECONOMIC RESEARCH, INC. 1050 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138-5398	NONE PC	TO GROW AND STRENGTHEN RESEARCH ON BEHAVIORAL MACROECONOMICS BY PROVIDING PRE-DOCTORAL FELLOWSHIP AND TRAINING SUPPORT TO EARLY-CAREER SCHOLARS IN THIS FIELD	439,645.
NATIONAL PUBLIC RADIO, INC. 1111 NORTH CAPITOL STREET, NE WASHINGTON, DC 20002	NONE PC	TO SUPPORT NPR'S COVERAGE OF ECONOMICS VIA TWO PODCASTS, PLANET MONEY AND THE INDICATOR; ONLINE SHORT VIDEOS; EDUCATIONAL OUTREACH; AND LIVE EVENTS	325,000.
NEW JERSEY INSTITUTE OF TECHNOLOGY 323 DR MARTIN LUTHER KING BLVD NEWARK, NJ 07201	NONE GOV	TO DEVELOP AND TEST PRIVACY-PROTECTION TECHNIQUES THAT ENABLE RESEARCHERS TO COLLECT AND ANALYZE SENSITIVE DATA	109,038.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NEW YORK ACADEMY OF SCIENCES 7 WTC, 250 GREENWICH ST., 40TH FL. NEW YORK, NY 10007-2157	NONE PC	TO EXPAND THE DEVELOPING PILOT PROGRAM, SCIENCE ALLIANCE LEADERSHIP TRAINING (SALT), TO TRAIN 90 DIVERSE, ADVANCED DOCTORAL STUDENTS TO LEAD INSTITUTIONAL CHANGE THROUGH ACQUISITION OF STRONG ENTREPRENEURIAL, INTERPERSONAL, AND TECHNICAL SKILLS	125,000.
NEW YORK PUBLIC LIBRARY STEPHEN A. SCHWARZMAN BUILDING FIFTH AVENUE AND 42ND STREET NEW YORK, NY 10018	NONE PC	TO SUPPORT THE CONTINUED DEVELOPMENT OF THE SIMPLYE E-READER APPLICATION IN ORDER TO MAKE THE DPLA EXCHANGE AND OTHER EBOOKS AVAILABLE TO AN INCREASING NUMBER OF LARGE LIBRARIES AND CONSORTIA UNDER NONPROPRIETARY CONDITIONS	200,000.
NEW YORK PUBLIC RADIO 160 VARICK STREET NEW YORK, NY 10013	NONE PC	TO SUPPORT STORY-DRIVEN HEALTH CARE REPORTING AT WNYC, INCLUDING COVERAGE OF HEALTH CARE POLICY AND ECONOMICS, MEDICAL SCIENCE AND DISCOVERY, AND PERSONAL HEALTH	200,000.
NEW YORK UNIVERSITY 665 BROADWAY, SUITE 801 NEW YORK, NY 10003	NONE PC	FOR AN ANNUAL FEATURE FILM PRODUCTION GRANT OVER THREE YEARS TO ENABLE FILM STUDENTS TO SHOOT A FIRST FEATURE FILM ABOUT SCIENCE AND TECHNOLOGY	334,596.
NEW YORK UNIVERSITY 665 BROADWAY, SUITE 801 NEW YORK, NY 10003	NONE PC	TO FURTHER DEVELOP THE PH.D. EXCELLENCE INITIATIVE TO CHANGE THE FACE OF U.S. ECONOMICS DEPARTMENTS BY PREPARING A SELECT CADRE OF HIGH-ACHIEVING POST-BACCALAUREATE STUDENTS OF COLOR FOR THE RIGORS OF PH.D. STUDY IN THE FIELD	167,511.
NEW YORK UNIVERSITY 665 BROADWAY, SUITE 801 NEW YORK, NY 10003	NONE PC	TO STUDY AND BUILD A RESEARCH COMMUNITY AROUND THE GENESIS OF DATA USED TO TRAIN AND EVALUATE THE PERFORMANCE OF AI SYSTEMS	1,360,045.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NEW YORK UNIVERSITY 665 BROADWAY, SUITE 801 NEW YORK, NY 10003	NONE PC	TO SUPPORT SCREENWRITING AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS AND GAMES BY TOP FILM AND GAME DESIGN STUDENTS	288,242.
NEW YORK UNIVERSITY 665 BROADWAY, SUITE 801 NEW YORK, NY 10003	NONE PC	TO STUDY THE ROLE OF INFORMATION ASYMMETRY AMONG STAKEHOLDERS IN DISTRIBUTION SYSTEM PLANNING AND THE IMPLEMENTATION OF DISTRIBUTED ENERGY RESOURCES	49,905.
NORTH CAROLINA STATE UNIVERSITY 121 PEELE HALL RALEIGH, NC 27695	NONE GOV	TO UTILIZE AN OPEN SOURCE ENERGY SYSTEM MODEL TO CREATE AN OPEN ENERGY OUTLOOK FOR THE UNITED STATES	258,151.
NORTH CAROLINA STATE UNIVERSITY 121 PEELE HALL RALEIGH, NC 27695	NONE GOV	TO STUDY THE EFFECTS OF AN AGING LABOR FORCE ON FIRMS' DECISION TO MODIFY EMPLOYMENT CONDITIONS AND COMPENSATION PROGRAMS	124,978.
NORTH CAROLINA STATE UNIVERSITY 121 PEELE HALL RALEIGH, NC 27695	NONE GOV	TO SUPPORT THE RESEARCH AND WRITING OF "RIVERS: TEN RULES FOR UNDERSTANDING THE FUTURE OF LIFE AND HUMAN CIVILIZATION," PUBLISHED BY BASIC BOOKS	49,999.
NORTHEASTERN UNIVERSITY 360 HUNTINGTON AVE BOSTON, MA 02115	NONE PC	TO SUPPORT THE RESEARCH AND WRITING OF "SEVEN INSIGHTS ABOUT THE BRAIN," TO BE PUBLISHED BY HOUGHTON MIFFLIN HARCOURT	20,000.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NORTHWESTERN UNIVERSITY 2033 SHERIDAN ROAD EVANSTON, IL 60208-2730	NONE PC	TO INVESTIGATE THE FUNDAMENTAL CHEMISTRY OF INDOOR SURFACES USING ADVANCED SPECTROSCOPY	250,000.
NUMFOCUS P.O. BOX 90596 AUSTIN, TX 78709	NONE PC	TO DEVELOP AND TEST PRIVACY-PROTECTION TECHNIQUES FOR ENCRYPTING, LINKING, AND ANALYZING SENSITIVE DATA	151,668.
OHIO STATE UNIVERSITY 1960 KENNY RD. COLUMBUS, OH 43210	NONE GOV	TO RESEARCH THE DEVELOPMENT AND EVALUATION OF PATHWAYS TO NET-ZERO EMISSION AGRICULTURE AND CROPPING SYSTEMS	994,969.
OPEN KNOWLEDGE FOUNDATION ST JOHN'S INNOV. CTR, COWLEY RD CAMBRIDGE CAMBRIDGESHIRE UNITED KINGDOM CB4 0WS	NONE NC	TO SUPPORT ADOPTION AND USE OF A LIGHTWEIGHT DATA PACKAGING STANDARD IN ORDER TO REDUCE THE FRICTIONS EXPERIENCED IN THE ACQUISITION, SHARING, USE, AND REUSE OF RESEARCH DATA	249,874.
OREGON STATE UNIVERSITY A312 KERR ADMINISTRATION BUILDING CORVALLIS, OR 97331	NONE GOV	TO DEVELOP AND DEPLOY NOVEL SENSOR TECHNOLOGIES FOR IMPROVED WILDLAND URBAN INTERFACE (WUI) FIRE RESILIENCE	1,486,403.
PECAN STREET, INC. 3924 BERKMAN DRIVE AUSTIN, TX 78723	NONE PC	TO IMPROVE RESEARCHER ACCESS TO CRITICAL ENERGY DATA BY ENHANCING DATA RESOLUTION AND GRANULARITY, DIVERSIFYING DATA LINKAGES, AND EXPANDING GEOGRAPHIC SCOPE OF INSTRUMENTED HOMES	347,132.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PRIVATE CAPITAL RESEARCH INSTITUTE ARTHUR ROCK CENTER, RM. 314 HARVARD BUSINESS SCHOOL/SOLDIERS FIELD ROAD BOSTON, MA 02163	NONE PF	TO SET UP AN ADMINISTRATIVE DATA RESEARCH FACILITY THAT MAKES DATA ABOUT THE PRIVATE CAPITAL INDUSTRY ACCESSIBLE TO RESEARCHERS	150,000.
RAND CORPORATION 1776 MAIN STREET, P.O. BOX 2138 SANTA MONICA, CA 90407-2137	NONE PC	TO CONSTRUCT, FIELD, AND ANALYZE A NEW SURVEY TO COLLECT INFORMATION ABOUT EMPLOYERS' INCENTIVES AND WILLINGNESS TO CONSIDER ALTERNATE WORK CONDITIONS FOR AGING WORKERS	301,526.
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NY 230 WEST 41ST STREET NEW YORK, NY 10036	NONE PC	TO PROVIDE RENEWED SUPPORT TO ENCOURAGE AND SUPPORT PROMISING EARLY CAREER SCIENTISTS AT BOTH STUDENT AND FACULTY LEVELS THROUGH TWO AWARD PROGRAMS: A SUMMER UNDERGRADUATE RESEARCH PROGRAM AND A JUNIOR FACULTY RESEARCH AWARD PROGRAM	871,845.
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO CONTINUE A POSTDOCTORAL RESEARCHER PROGRAM THAT WILL TRAIN THE NEXT GENERATION OF SCHOLARS IN ENERGY AND ENVIRONMENTAL ECONOMICS AND POLICY ANALYSIS	200,000.
RESOURCES FOR THE FUTURE, INC. 1616 P STREET, NW WASHINGTON, DC 20036-1400	NONE PC	TO BETTER UNDERSTAND THE ROLE OF VARIABLE PRICING, CONSUMER INCENTIVES, AND SMART TECHNOLOGIES IN SHIFTING ENERGY DEMAND	200,000.
SCIENCE FRIDAY INITIATIVE, INC. 19 WEST 44TH STREET, SUITE 412 NEW YORK, NY 10036	NONE PC	TO SUPPORT SCIENCE FRIDAY, FOCUSING ON SCIENCE AND THE ARTS, INCLUDING RADIO BROADCASTS, DIGITAL SCIENCE VIDEOS, BLOG POSTS, LIVE EVENTS, AND ASSOCIATED MEDIA	457,550.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SFFILM 39 MESA STREET, SUITE 110 SAN FRANCISCO, CA 94129	NONE PC	TO NURTURE, DEVELOP, AND CHAMPION FILMS THAT EXPLORE SCIENTIFIC OR TECHNOLOGICAL THEMES AND CHARACTERS	200,000.
SOCIAL SCIENCE RESEARCH COUNCIL 810 SEVENTH AVENUE NEW YORK, NY 10019	NONE PC	TO PROVIDE MENTORING, NETWORKING AND PROFESSIONAL DEVELOPMENT SERVICES TO SLOAN MPHD GRADUATES THROUGH THE SLOAN SCHOLARS MENTORING NETWORK (SSMN), AND TO REVIEW THE IMPACTS OF THE SSMN AND MPHD AS SLOAN SCHOLARS MOVE THROUGH THEIR CAREERS	1,600,000.
SOUTHERN CALIFORNIA INSTITUTE OF ARCHITECTURE 960 EAST 3RD STREET LOS ANGELES, CA 90013	NONE PC	TO SUPPORT ARCHITECTURE STUDENTS IN THE CREATION AND DISSEMINATION OF MULTI-MEDIA FICTIONAL NARRATIVES BASED ON THE LATEST RESEARCH ON AI AND AUTOMATION	90,000.
SOUTHERN REGIONAL EDUCATION BOARD 592 10TH STREET, NW ATLANTA, GA 30318-5790	NONE PC	TO SUPPORT THE INSTITUTE ON TEACHING AND MENTORING AS PART OF THE NATIONAL EFFORT TO INCREASE DOCTORAL DEGREES AWARDED TO MEMBERS OF UNDERREPRESENTED MINORITIES IN STEM FIELDS, WITH A SPECIAL FOCUS ON PREPARATION FOR CAREERS IN HIGHER EDUCATION	1,058,919.
SPELMAN COLLEGE 350 SPELMAN LANE, S.W. BOX 1551 ATLANTA, GA 30314	NONE PC	TO ADDRESS THE SCARCITY OF BLACK WOMEN WHO EARN DEGREES IN ECONOMICS, AND GROW THE NUMBER OF BLACK WOMEN ECONOMISTS IN THE PROFESSORiate	395,936.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TO DEVELOP AND APPLY A FRAMEWORK THAT CLASSIFIES, ASSESSES, AND COMPARES THE EXPLICIT AND IMPLICIT SUBSIDIES PROVIDED FOR DIFFERENT ENERGY SOURCES	300,000.

ATTACHMENT 21

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TO CONDUCT RESEARCH ON THE PRIVATE AND SOCIAL RETURNS TO INNOVATION	50,000.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TO DEVELOP, TEST, AND POST NEW ALGORITHMS FOR ESTIMATING HETEROGENEOUS CAUSAL EFFECTS FROM LARGE-SCALE OBSERVATIONAL STUDIES AND FIELD EXPERIMENTS	155,854.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TO DEVELOP A NEW OUTSOURCING SURVEY WITH THE U.S. CENSUS BUREAU TO COLLECT DATA ON 50,000 U.S. ESTABLISHMENTS TO EVALUATE THE DRIVERS AND EFFECTS OF OUTSOURCING	103,555.
STANFORD UNIVERSITY 450 JANE STANFORD WAY STANFORD, CA 94305	NONE PC	TO MODEL THE SUPPLY OF AND DEMAND FOR RESEARCH DATA, INCLUDING DECISIONS ABOUT HOARDING, SHARING, AND PRIVACY PROTECTION	249,675.
SUNDANCE INSTITUTE 5900 WILSHIRE BOULEVARD, STE. 800 LOS ANGELES, CA 90036	NONE PC	TO SUPPORT A SCIENCE AND TECHNOLOGY FILM PROGRAM AT THE NATION'S PRE-EMINENT INDEPENDENT FILM CENTER THAT INCLUDES SCREENWRITING FELLOWSHIPS, FEATURE FILM PRIZES, SCIENCE AND FILM PANELS, AND ASSOCIATED OUTREACH	250,000.
THE FUTURO MEDIA GROUP 361 WEST 125TH STREET NEW YORK, NY 10027	NONE PC	TO SUPPORT FOUR SHORT ANIMATED DOCUMENTARY FILMS AND RELATED OUTREACH ABOUT LITTLE-KNOWN WOMEN IN STEM FIELDS AS PART OF A MULTIMEDIA SERIES ABOUT GREAT WOMEN DISTRIBUTED DIGITALLY AND BROADCAST ON PBS AMERICAN MASTERS	75,000.

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FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE GRADUATE CENTER FOUNDATION, INC. 365 FIFTH AVENUE, ROOM 8204 NEW YORK, NY 10016	NONE PC	TO PILOT A NEW, ANNUAL SCIENTIFIC BIOGRAPHY FELLOWSHIP AT THE LEON LEVY CENTER FOR BIOGRAPHY THAT WILL RESULT IN THREE NEW MAJOR BIOGRAPHIES OF SCIENTISTS AND/OR TECHNOLOGISTS	110,250.
THE NEW SCHOOL 66 WEST 12TH STREET NEW YORK, NY 10011	NONE PC	TO STUDY NEW CITY AND STATE POLICIES REGARDING DRIVER PAY AND CONGESTION ON THE NEW YORK CITY FOR-HIRE VEHICLE (FHV) LABOR MARKET	154,985.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO DEVELOP, DEBUG, AND DISSEMINATE MACROECONOMIC MODELS AND SOFTWARE THAT DO NOT ASSUME RATIONAL EXPECTATIONS	460,000.
THE UNIVERSITY OF CHICAGO 5801 S ELLIS AVE CHICAGO, IL 60637	NONE PC	TO STUDY THE COMPLEMENTARITY BETWEEN PREDICTION ALGORITHMS AND HUMAN DECISION-MAKING	122,671.
TRIBECA FILM INSTITUTE 32 AVE. OF THE AMERICAS, 27TH FLR NEW YORK, NY 10013	NONE PC	TO BUILD ON THE TFI SLOAN FILMMAKER FUND'S SUCCESS IN DEVELOPING NEW SCIENCE FILMS TO PRODUCTION AND TO RAISE THE PROFILE OF SLOAN SCREENINGS, READINGS, AND PANELS AT THE TRIBECA FILM FESTIVAL	439,250.
UNIVERSITY COLLEGE LONDON GOWER STREET LONDON UNITED KINGDOM WC1E 6BT	NONE PC	TO SUPPORT THE OPERATIONS OF MICROECONOMIC INSIGHTS, AN ONLINE SOURCE FOR SUMMARIES OF TOP MICROECONOMICS RESEARCH	20,000.



FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF ARIZONA 1401 E. UNIVERSITY BLVD. TUCSON, AZ 85721	NONE GOV	TO STUDY GENDER DIFFERENCES IN THE CHOICE OF SUBFIELD SPECIALIZATION AMONG ACADEMIC ECONOMISTS	116,792.
UNIVERSITY OF BRITISH COLUMBIA 2329 WEST MALL, VANCOUVER BRITISH COLUMBIA CANADA V6T 1Z4	NONE PC	TO PROVIDE EMPIRICAL EVIDENCE THAT CAN BE USED TO ASSESS DOMESTIC OUTSOURCING AS A BROAD MANAGERIAL STRATEGY BEYOND SIMPLY REDUCING FIRMS' LABOR COSTS	45,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO INTEGRATE BEHAVIORAL INSIGHTS INTO THE FOUNDATIONS OF STANDARD MACROECONOMIC MODELS BY RE-EXAMINING THE ROLE OF THE EULER EQUATION	164,789.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO EXPAND UNDERSTANDING OF THE ROLES THAT MICROORGANISMS PLAY IN SHAPING THE CHEMISTRY OF INDOOR ENVIRONMENTS	245,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO CREATE THE E2E EVIDENCE-BASED POLICY FELLOWSHIP PROGRAM THAT WILL BRING ENERGY EFFICIENCY PROGRAM EVALUATION RESEARCH CAPACITY TO STATE AGENCIES	234,406.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO BUILD, TEST, AND STUDY ONLINE PLATFORMS FOR COLLECTING AND CATALOGUING EXPERT FORECASTS ABOUT THE RESULTS OF SOCIAL SCIENCE EXPERIMENTS	303,653.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO PROVIDE RENEWED SUPPORT TO EXAMINE THE PROCESSES CONTROLLING ABUNDANCE, SOURCES AND FATES OF ORGANIC CHEMICALS INDOORS	600,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO DEVELOP AND PROMULGATE BEST PRACTICES IN THE REVIEW OF STATISTICAL RESEARCH SOFTWARE	559,900.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO DEVELOP NEW INTERFACES FOR SCIENTIFIC LITERATURE THAT INCLUDE CONTEXT-RELEVANT EXPLANATIONS OF TECHNICAL TERMS AND NOTATION	140,000.
UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 94704-5940	NONE PC	TO SUPPORT A SPECIAL SEMESTER OF RESEARCH ON LATTICE METHODS FOR FULLY HOMOMORPHIC ENCRYPTION AND ON APPLICATIONS FOR PRIVACY-PRESERVING COMPUTATIONS ON CONFIDENTIAL DATA	250,000.
UNIVERSITY OF CALIFORNIA, DAVIS 1 SHIELDS AVE DAVIS, CA 95616	NONE PC	TO UNDERSTAND HOW FUTURE ELECTRIC VEHICLE DEMAND WILL IMPACT THE DEVELOPMENT OF ELECTRICITY DISTRIBUTION INFRASTRUCTURE	49,456.
UNIVERSITY OF CALIFORNIA, IRVINE 5171 CALIFORNIA IRVINE, CA 92697	NONE PC	TO PROVIDE RENEWED SUPPORT TO THE INDOOR CHEMISTRY MODELING CONSORTIUM	289,771.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA, IRVINE 5171 CALIFORNIA IRVINE, CA 92697	NONE PC	TO ADVANCE ELECTROCHEMICAL CARBON DIOXIDE CAPTURE AND CONCENTRATION TECHNOLOGY	1,500,000.
UNIVERSITY OF CALIFORNIA, IRVINE 5171 CALIFORNIA IRVINE, CA 92697	NONE PC	TO BUILD UPON PREVIOUSLY SLOAN-FUNDED RESEARCH ON AGE DISCRIMINATION, BY STUDYING THE EFFECTS OF AGEIST STEREOTYPES IN JOB ADS ON THE AGE COMPOSITION OF JOB APPLICANTS FOR THOSE JOBS	116,958.
UNIVERSITY OF CALIFORNIA, LOS ANGELES 3532E BOELTER HALL LOS ANGELES, CA 90095	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	241,000.
UNIVERSITY OF CALIFORNIA, RIVERSIDE 900 UNIVERSITY AVE RIVERSIDE, CA 92521	NONE PC	TO SUPPORT CONTINUED DEVELOPMENT OF A BROWSER-BASED INTERACTIVE PLATFORM FOR EXPLORING -OMIC DATASETS	132,743.
UNIVERSITY OF CALIFORNIA, SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE PC	TO COORDINATE EFFORTS TO INTEGRATE SURFACE CHEMISTRY DATA BY ESTABLISHING THE SURFACE CONSORTIUM FOR CHEMISTRY OF INDOOR ENVIRONMENTS (SURF-CIE)	73,325.
UNIVERSITY OF COLORADO, BOULDER 430 UCB BOULDER, CO 80309-0430	NONE PC	TO SEARCH FOR EVIDENCE OF PHYSICS BEYOND THE STANDARD MODEL AND ATTEMPT TO CAST LIGHT ON THE ORIGINAL ASYMMETRY (MATTER/ANTIMATTER ASYMMETRY) OF THE UNIVERSE	1,268,213.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF COLORADO, BOULDER 430 UCB BOULDER, CO 80309-0430	NONE PC	TO INVESTIGATE THE SOURCES AND PROCESSES THAT INFLUENCE THE COMPOSITION OF ORGANIC CHEMICALS IN INDOOR ENVIRONMENTS THROUGH LABORATORY, FIELD, AND MODELING STUDIES	475,000.
UNIVERSITY OF FLORIDA 207 GRINTER HALL, P.O. BOX 115500 GAINESVILLE, FL 32611-5500	NONE GOV	TO PROVIDE OPEN GEOGRAPHIC AND DEMOGRAPHIC DATA ABOUT PRECINCTS, AS WELL AS VISUALIZATION AND MAPPING SOFTWARE THAT CALLS ON THIS DATA, FOR USE BY SOCIAL SCIENTISTS, GOVERNMENT OFFICIALS, AND THE GENERAL PUBLIC	562,042.
UNIVERSITY OF ILLINOIS AT CHICAGO 845 WEST TAYLOR STREET CHICAGO, IL 60607	NONE PC	TO EXAMINE HOW THE CONSTRAINTS THAT RESULT FROM SUBCONTRACTING ARRANGEMENTS IMPACT BOTH THE BUSINESS MODELS AND EMPLOYMENT DECISIONS OF WAREHOUSE OPERATORS	249,741.
UNIVERSITY OF MARYLAND, BALTIMORE COUNTY 1000 HILLTOP CIRCLE BALTIMORE, MD 21250	NONE GOV	TO DEVELOP AN EFFECTIVE PIPELINE FOR UNDERREPRESENTED MINORITY STUDENTS TO GAIN ADMISSION TO AND COMPLETE HIGHLY COMPETITIVE DOCTORAL PROGRAMS IN ECONOMICS BY PROVIDING STUDENT SUPPORT, HIGH-VALUE SUMMER RESEARCH EXPERIENCES, AND POSTBACCALAUREATE PROGRAMS	1,109,244.
UNIVERSITY OF MARYLAND, BALTIMORE COUNTY 1000 HILLTOP CIRCLE BALTIMORE, MD 21250	NONE GOV	TO SUPPORT THE RESEARCH AND WRITING OF THE BOOK "HOW TO BUILD THE UNIVERSE USING ONLY NUMBERS," PUBLISHED BY W.W. NORTON	17,000.
UNIVERSITY OF MARYLAND, COLLEGE PARK 3112 LEE BLDG., 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	TO INFORM THE DESIGN OF QUESTIONS TO LEARN ABOUT ALTERNATIVE WORK ARRANGEMENTS AMONG THE POPULATION AGE 50 PLUS AND PROVIDE NEW EVIDENCE ON THE ROLE OF THESE ARRANGEMENTS IN OLDER ADULTS' WORK LIVES	30,860.

ATTACHMENT 21

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF MARYLAND, COLLEGE PARK 3112 LEE BLDG., 7809 REGENTS DRIVE COLLEGE PARK, MD 20742	NONE GOV	TO UNDERTAKE A MULTIDISCIPLINARY STUDY TO ASSESS THE COSTS AND BENEFITS OF INSTALLING ELECTRIC HEAT PUMPS	100,000.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	TO SUPPORT RESEARCH ON THE ECONOMICS OF SCIENCE THAT USES NEW DATA FROM UNIVERSITIES ABOUT ACADEMIC FUNDING, SPENDING, AND TRAINING	188,418.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	TO ESTABLISH A COLLABORATION OF 11 LARGE R-1 UNIVERSITIES THAT WILL ACCELERATE AND ENHANCE EFFORTS TO IMPROVE FOUNDATIONAL COURSES IN STEM THROUGH LEARNING ANALYTICS RESEARCH INTO, AND DEVELOPMENT OF, EQUITABLE AND INCLUSIVE STEM CURRICULA AND TEACHING PRACTICES	661,264.
UNIVERSITY OF MICHIGAN 930 N. UNIVERSITY AVE ANN ARBOR, MI 48109	NONE PC	TO USE AIRBORNE AND SATELLITE MEASUREMENTS TO MONITOR OFFSHORE ENERGY PRODUCTION AND NATURAL GAS FLARING	922,772.
UNIVERSITY OF MINNESOTA 207 PLEASANT ST. SE MINNEAPOLIS, MN 55455	NONE GOV	TO LAUNCH AND EXPAND A CROSS-INSTITUTIONAL STAFFING MODEL FOR CURATING DISCIPLINARY RESEARCH DATA	175,936.
UNIVERSITY OF MINNESOTA 207 PLEASANT ST. SE MINNEAPOLIS, MN 55455	NONE GOV	TO QUANTIFY THE IMPACT OF DIFFERENTIAL PRIVACY ON THE UTILITY AND ACCURACY OF DECENNIAL CENSUS DATA FOR SOCIAL SCIENCE RESEARCH	124,767.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL 104 AIRPORT DRIVE CHAPEL HILL, NC 27599-3250	NONE PC	TO IMPROVE THE ABILITY TO CURATE AND VERIFY REPLICATION DATASETS WITHIN THE DATAVERSE DATA ARCHIVING PLATFORM BY INTEGRATING COMPUTATIONAL NOTEBOOKS AND SOFTWARE CONTAINERIZATION WITH DATA CURATION WORKFLOWS	92,529.
UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL 104 AIRPORT DRIVE CHAPEL HILL, NC 27599-3250	NONE PC	TO EXPAND PARTNERSHIP BETWEEN THE MOREHEAD PLANETARIUM AND SCIENCE CENTER AND ELIZABETH CITY STATE UNIVERSITY FOCUSING ON UNDERSERVED RURAL UPPER ELEMENTARY STUDENTS AS A MEANS TO CREATE EQUITY IN ACCESS TO STEM LEARNING RESOURCES AND CAREER PATHWAYS	50,000.
UNIVERSITY OF NOTRE DAME 400 MAIN BUILDING NOTRE DAME, IN 46556	NONE PC	TO IMPROVE METADATA STANDARDS AND DATA MANAGEMENT TOOLS FOR USE BY RESEARCHERS CAPTURING DATA VIA SMALL UNMANNED AIRCRAFT FLIGHTS	190,462.
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	TO ESTABLISH THE MACRO FINANCE SOCIETY AS A CATALYST, FORUM, AND DISSEMINATOR FOR RESEARCH BY MACRO AND FINANCIAL ECONOMISTS	132,457.
UNIVERSITY OF PENNSYLVANIA 3451 WALNUT STREET PHILADELPHIA, PA 19104-6205	NONE PC	TO RESEARCH HOW LAST-MILE DELIVERY DRIVERS EXPERIENCE, UNDERSTAND, AND RESPOND TO TECHNOLOGY-ENABLED OUTSOURCING	223,545.
UNIVERSITY OF PITTSBURGH 3700 O'HARA STREET PITTSBURGH, PA 15261	NONE PC	TO DEVELOP SOFTWARE AND SERVICES FOR TRANSFORMING MATHEMATICAL RESULTS AS THEY APPEAR IN JOURNAL ARTICLE ABSTRACTS INTO FORMALLY STRUCTURED DATA THAT MACHINES CAN READ, PROCESS, SEARCH, CHECK, COMPUTE WITH, AND LEARN FROM AS LOGICAL STATEMENTS	281,791.

ATTACHMENT 21

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF PUERTO RICO, MAYAGUEZ CALL BOX 9000 MAYAGÜEZ, PR 00681	NONE GOV	TO ENHANCE THE RESEARCH SKILLS AND PRODUCTIVITY OF PH.D. CANDIDATES IN 8 STEM FIELDS AT UPR-MAYAGUEZ TO COMPENSATE FOR CAMPUS DAMAGE DURING HURRICANE MARIA (2017)	98,065.
UNIVERSITY OF SASKATCHEWAN 110 SCIENCE PLACE, SASKATOON SASKATCHEWAN CANADA S7N 5C9	NONE PC	TO EXAMINE PHOTON FLUXES, OXIDANTS, AND OXIDANT PRECURSORS IN INDOOR ENVIRONMENTS	202,302.
UNIVERSITY OF SOUTHERN CALIFORNIA 1050 CHILD WAY, RRI 201 (MCB) LOS ANGELES, CA 90089	NONE PC	TO SUPPORT THE DEVELOPMENT AND PRODUCTION OF SCIENCE AND TECHNOLOGY FILMS, TELEVISION, AND NEW MEDIA PROJECTS BY TOP FILM STUDENTS	277,103.
UNIVERSITY OF TENNESSEE 1 CIRCLE PARK KNOXVILLE, TN 37996	NONE GOV	TO UNDERSTAND THE RELATIONSHIP BETWEEN CUSTOMER INCENTIVES TO INVEST IN DISTRIBUTED SOLAR GENERATION AND UTILITY INCENTIVES TO INVEST IN NEW RESOURCE AND TRANSMISSION ASSETS	37,415.
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W, TORONTO ONTARIO CANADA M5S 1S8	NONE PC	TO STUDY THE BEHAVIORAL WELFARE ECONOMICS OF HOW NUDGES AFFECT FINANCIAL DECISION MAKING	161,369.
UNIVERSITY OF TORONTO 12 QUEENS PK CRESCENT W, TORONTO ONTARIO CANADA M5S 1S8	NONE PC	TO PROVIDE RENEWED SUPPORT TO STUDY MULTIPHASE CHEMISTRY IN INDOOR ENVIRONMENTS	343,361.

ATTACHMENT 21

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF VERMONT 85 S PROSPECT ST BURLINGTON, VT 05405	NONE PC	TO LOWER BARRIERS TO LARGE-SCALE RESEARCH COMPUTING THROUGH THE DEVELOPMENT OF A DISTRIBUTED, VOLUNTEER, IN-BROWSER SYSTEM FOR ELASTIC COMPUTING RESOURCES	254,451.
UNIVERSITY OF VIRGINIA P.O. BOX 400325 CHARLOTTESVILLE, VA 22904-4325	NONE PC	TO SUPPORT DEVELOPMENT ON SCHOLIA, A SOFTWARE TOOL TO FACILITATE THE EXPLORATION AND CURATION OF THE RESEARCH LITERATURE	197,646.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	TO ASSESS HOW THE PRIVACY AND ACCURACY OF SOCIAL SCIENCE RESEARCH WILL BE AFFECTED BY NEW DISCLOSURE-AVOIDANCE ALGORITHMS GOVERNING THE RELEASE OF 2020 CENSUS DATA	249,836.
UPJOHN INSTITUTE FOR EMPLOYMENT RESEARCH 300 SOUTH WESTNEDGE AVENUE KALAMAZOO, MI 49007	NONE PC	TO INCREASE THE IMPACT OF THE NEW PROGRAM ON THE IMPACT OF OUTSOURCING, THROUGH THE CREATION OF A TOPICAL RESEARCH NETWORK	124,991.
URBAN INSTITUTE 500 L'ENFANT PLAZA SW WASHINGTON, DC 20024	NONE PC	TO PROVIDE FEDERAL AND STATE POLICYMAKERS WITH THE NECESSARY INFORMATION TO INFORM SOUND POLICIES THAT ELIMINATE WORK DISINCENTIVES AT OLDER AGES, FACILITATE PAID EMPLOYMENT FOR OLDER ADULTS, AND IMPROVE OLDER ADULTS' FINANCIAL SECURITY	403,665.
WASHINGTON CENTER FOR EQUITABLE GROWTH 1156 15TH STREET NW, SUITE 700 WASHINGTON, DC 20005	NONE PC	TO FUND AN RFP FOCUSED ON ADVANCING RESEARCH ON OUTSOURCING AND ITS IMPACT ON U.S. WORKERS	235,993.

ATTACHMENT 21



FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WGBH EDUCATIONAL FOUNDATION ONE GUEST STREET BOSTON, MA 02135	NONE PC	FOR A TWO-HOUR NOVA SPECIAL, BEYOND THE ELEMENTS, THAT INVESTIGATES THE SUBSTANCES COMPOSED OF THE ELEMENTS IN THE PERIODIC TABLE AND ACCOMPANYING EDUCATIONAL OUTREACH AND MARKETING	350,000.
WGBH EDUCATIONAL FOUNDATION ONE GUEST STREET BOSTON, MA 02135	NONE PC	TO SUPPORT THE PRODUCTION AND ASSOCIATED MARKETING AND PROMOTION OF FOUR PRIME TIME AMERICAN EXPERIENCE DOCUMENTARY FILMS ABOUT THE ROLE OF SCIENCE AND TECHNOLOGY IN HISTORY	1,000,000.
WGBH EDUCATIONAL FOUNDATION ONE GUEST STREET BOSTON, MA 02135	NONE PC	TO SUPPORT A ONE-HOUR NOVA SPECIAL ABOUT THE SCIENTIFIC, TECHNOLOGICAL, SOCIAL, AND CRIMINAL JUSTICE IMPLICATIONS OF PERSONAL DNA TESTING	150,000.
WIKIMEDIA FOUNDATION 1 MONTGOMERY STREET, SUITE 1600 SAN FRANCISCO, CA 94104	NONE PC	TO SUPPORT THREE YEARS OF WORKSHOPS, HACKATHONS, AND OUTREACH AT THE INTERSECTION OF ACADEMIC CITATION, BIBLIOGRAPHIC METADATA, AND WIKIPEDIA	66,666.
WOMEN MAKE MOVIES, INC. 115 W 29TH ST., SUITE 1200 NEW YORK, NY 10001-5059	NONE PC	TO SUPPORT THE PRODUCTION OF "THE EYES TO SEE," DOCUMENTARY FILM ABOUT BIAS AND DISCRIMINATION AGAINST WOMEN IN SCIENCE	100,000.
WOMEN MAKE MOVIES, INC. 115 W 29TH ST., SUITE 1200 NEW YORK, NY 10001-5059	NONE PC	TO SUPPORT THE PRODUCTION OF A FEATURE-LENGTH DOCUMENTARY ON NEUROLOGIST PHIL KENNEDY, A PIONEER IN BRAIN-COMPUTER INTERFACING, AND HOW TECHNOLOGY IS AFFECTING OUR BRAINS	35,700.

FORM 990PF, PART XV - CONTRIBUTIONS APPROVED FOR FUTURE PAYMENTATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WOODROW WILSON INTERNATIONAL CENTER FOR SCHOLARS ONE WOODROW WILSON PLAZA 1300 PENNSYLVANIA AVENUE, N.W. WASHINGTON, DC 20004-3027	NONE PC	TO UNDERSTAND THE CURRENT CAPACITY AND FUTURE POTENTIAL FOR LOW-COST HARDWARE TO ACCELERATE SCIENCE AND BROADEN PARTICIPATION IN SCIENTIFIC RESEARCH	320,975.
WRITERS ROOM INC. 740 BROADWAY, 12TH FLOOR NEW YORK, NY 10003	NONE PC	TO SUPPORT AN ALFRED P. SLOAN DESK FOR ONE SCIENCE OR TECHNOLOGY WRITER PER YEAR OVER THREE YEARS	50,000.
YALE UNIVERSITY 300 GEORGE STREET, SUITE 901 NEW HAVEN, CT 06511	NONE PC	TO SEARCH FOR NEW FUNDAMENTAL PARTICLES BY USING COLD THORIUM OXIDE MOLECULES TO MEASURE WHETHER AN ELECTRON HAS AN ASYMMETRIC DISTRIBUTION OF CHARGE	1,329,631.
YARN LABS 245 MAIN STREET, 3RD FLOOR CAMBRIDGE, MA 02142	NONE PC	TO ENABLE RESEARCH ON THE INNOVATION PROCESS, FROM INITIAL FUNDING THROUGH ECONOMIC IMPACTS, BY COMPILING, LINKING, AND DOCUMENTING COMPREHENSIVE DATASETS ABOUT PATENTS AND PATENTING	852,531.
YORK UNIVERSITY 4700 KEELE ST. KANEFF TWR, 5TH FL TORONTO ONTARIO CANADA M3J 1P3	NONE PC	TO EVALUATE THE FEASIBILITY OF USING POLAR MOLECULES TRAPPED IN CRYOGENIC SOLID ARGON FOR AN ULTRAPRECISE ELECTRON ELECTRIC DIPOLE MOMENT MEASUREMENT	681,000.
TOTAL CONTRIBUTIONS APPROVED			<u>76,913,133.</u>

FORM 990-PF, PART XVI-A - ANALYSIS OF OTHER REVENUEATTACHMENT 22

<u>DESCRIPTION</u>	<u>BUSINESS CODE</u>	<u>AMOUNT</u>	<u>EXCLUSION CODE</u>	<u>AMOUNT</u>	<u>RELATED OR EXEMPT FUNCTION INCOME</u>
RECV'D WITH GRANT TRANSFERS			01	900,994.	
REFUNDED GRANTS			01	520,050.	
MISCELLANEOUS			01	1,133.	
TOTALS				<u>1,422,177.</u>	