BASELINE ASSESSMENT OF DEMOGRAPHIC REPRESENTATION IN AAAS/Science FUNCTIONS

January 2021



Objective: Baseline Assessment

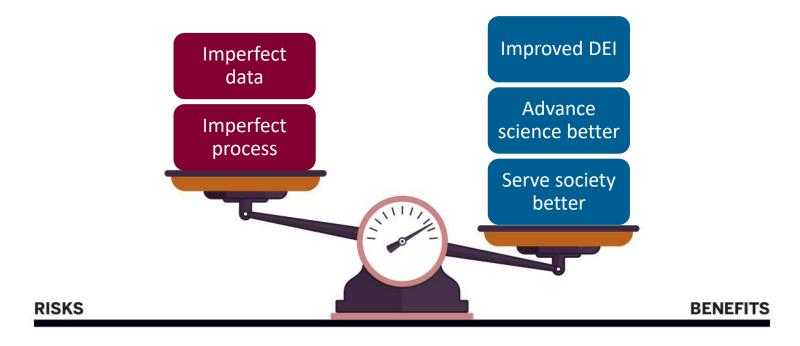


Examine the availability and quality of demographic data and present the current demographic representation for AAAS/Science Functions and Science Family Authors and Reviewers.



The Benefits Outweigh the Risks

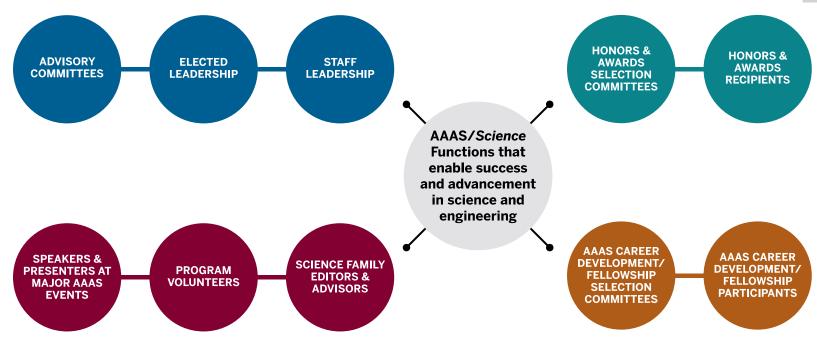






AAAS/Science Functions Included in This Report

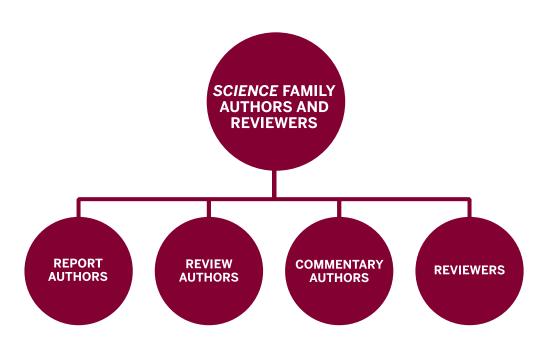




Notes: Based on Dr. Sudip Parikh's email and draft plan, 7/21/2020; refer to Appendix A for additional details.

Science Family Authors and Reviewers





Note: Report and Research Article Authors are referred to as Report Authors throughout this report.

Methodology: Overview

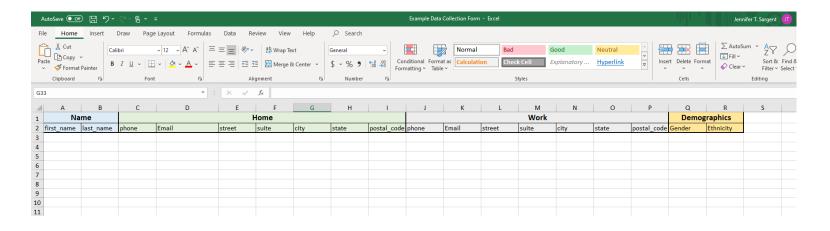


Data Collection and Analysis Process Overview	
1	Assemble data for all AAAS/Science Functions and Science Family Authors and Reviewers.
2	Assess for consistency of demographic data.
3	Estimate gender*.
4	Decide categories for gender and race/ethnicity.
5	Decide how to count individuals within and across functions.
6	Present results.

^{*}Lincoln Mullen (2018). Gender: Predict Gender from Names Using Historical Data. R package version 0.5.2.

Data Collection Form







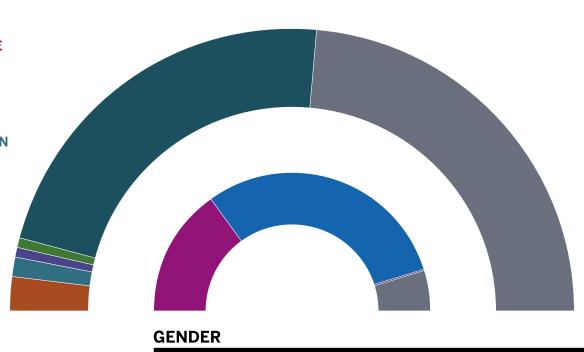
AAAS/Science Functions (N=13,480)



RACE/ETHNICITY

- 0.0% AMERICAN INDIAN OR ALASKA NATIVE
- 4.2% ASIAN OR PACIFIC ISLANDER
- 2.0% BLACK OR AFRICAN AMERICAN
- 1,2% HISPANIC OR LATINX
- 1.2% MULTI-RACIAL OR OTHER
- 44.5% WHITE (NON-HISPANIC)

46.9% NO DATA



FEMALE 30.3%

MALE 60.0%

NONBINARY/-SELF-IDENTIFY

0.1%

NO DATA



Science Family Authors and Reviewers (N=49,316)



RACE/ETHNICITY





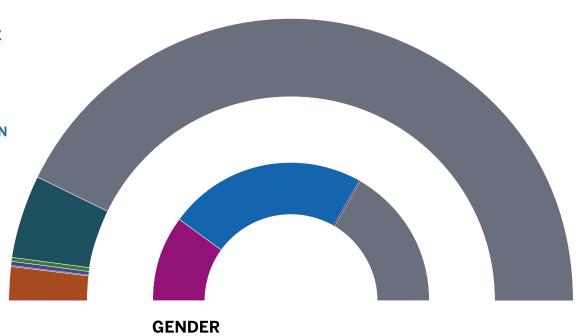
BLACK OR AFRICAN AMERICAN

HISPANIC OR LATINX

MULTI-RACIAL OR OTHER

WHITE (NON-HISPANIC)

NO DATA



FEMALE 20.3%

MALE 46.4%

NONBINARY/-SELF-IDENTIFY



NO DATA 33.2°







APPENDIX A: SUBGROUPS INCLUDED IN EACH FUNCTION



Staff Leadership:



- AAAS Senior Management: Leadership Advisory Council
- AAAS Senior Management: Leadership Team

Elected Leadership:



- Board of Directors
- AAAS Council
- Section Leadership: Steering Groups
- Section Leadership: Committee on Nominations
- Electorate Nominating Committee

Advisory Committees:



- National Conference on Lawyers and Scientists (NCLS)
- Committee on Scientific Freedom and Responsibility (CSFR)
- Committee on Science & Technology Engagement with the Public (CoSTEP)
- Committee on Science, Engineering, and Public Policy (COSEPP)
- Committee on Opportunities in Science (COOS)
- Annual Meeting Scientific Program Committee

Science Family Editors and Advisors:



- Professional Editors
- Academic Editors
- Advisors



Honors and Awards Recipients:



- Honorary Fellows, All Active Members
- Honorary Fellows, Class of 2019
- 2020 Award Winners (Award for Science Diplomacy; Award for Scientific Freedom and Responsibility; Early Career Award for Public Engagement with Science; Kavli Science Journalism Award; Mani L. Bhaumik Award for Engagement with Science; Mentor Awards; Newcomb Cleveland Prize; Philip Hauge Abelson Prize; AAAS/Subaru SB&F Prize for Excellence in Science Books)

Honors and Awards Selection Committees:



- Honorary Fellows Selection Committee
- Award for Science Diplomacy Selection Committee
- Award for Scientific Freedom and Responsibility Selection Committee
- Early Career Award for Public Engagement with Science Selection Committee
- Kavli Science Journalism Awards Selection Committee
- Mani L. Bhaumik Award for Public Engagement with Science Selection Committee
- Mentor Awards Selection Committee
- Newcomb Cleveland Prize Selection Committee
- Philip Hauge Abelson Prize Selection Committee
- AAAS/Subaru SB&F Prize for Excellence in Science Books Selection Committee

Career Development/Fellowship Program Participants:



- S&T Policy Fellows
- Mass Media Fellows
- Leshner Leadership Fellows
- News from Science Internships
- Diverse Voices
- If/THEN Ambassadors
- Catalyzing Advocacy in Science and Engineering (CASE) Workshop Participants
- Lemelson Invention Ambassadors
- L'Oreal USA for Women in Science Fellowships

Career Development/Fellowship Program Selection Committees:



- S&T Policy Fellows Selection Committee
- Mass Media Fellows Selection Committee
- Leshner Leadership Fellows Selection Committee
- If/THEN Ambassadors Selection Committee
- Lemelson Invention Ambassadors Selection Committee
- L'Oreal USA for Women in Science Fellowships Selection Committee

Speakers and Presenters at Major AAAS Events:



- Annual Meeting Speakers
- S&T Policy Forum Speakers
- ERN Speakers
- Noyce Summit Keynote Speakers

Volunteers:



- Scientists engaged by SciLine
- On-Call Scientists
- STEM Volunteers

Science Family Authors and Reviewers:



- Report Authors
- Review Authors
- Commentary Authors
- Reviewers





APPENDIX B: ADDITIONAL DATA COVERAGE INFORMATION



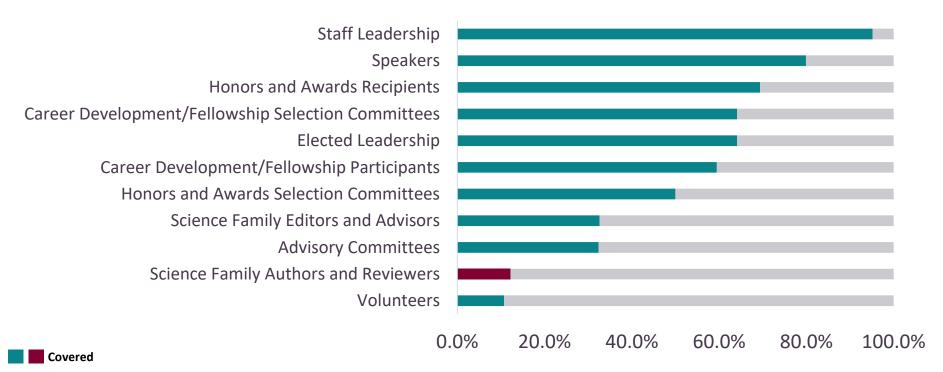
Data Coverage: Gender AAAS/Science Functions and Science Family Authors and Reviewers





Data Coverage: Race/Ethnicity AAAS/Science Functions and Science Family Authors and Reviewers







No Data



APPENDIX C: DEMOGRAPHIC REPRESENTATION IN EACH FUNCTION

AAAS Staff Leadership (N=21)



RACE/ETHNICITY

0.0% AMERICAN INDIAN OR ALASKA NATIVE

9.5% ASIAN OR PACIFIC ISLANDER

9.5% BLACK OR AFRICAN AMERICAN

0.0% HISPANIC OR LATINX

0.0% MULTI-RACIAL OR OTHER

76.2% WHITE (NON-HISPANIC)

4.8% NO DATA



FEMALE 57.1%

MALE 42.9%

NONBINARY/-SELF-IDENTIFY



NO DATA





AAAS Elected Leadership (N=404)



RACE/ETHNICITY





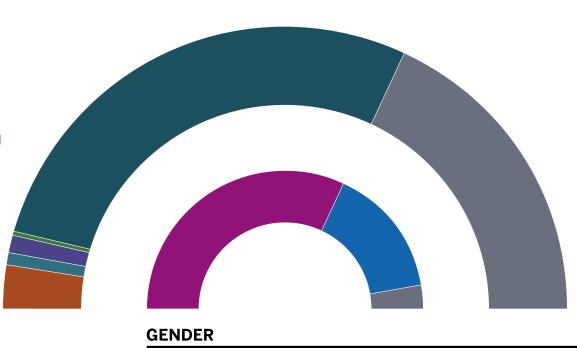
1.5% BLACK OR AFRICAN AMERICAN

2.0% HISPANIC OR LATINX

0.5% MULTI-RACIAL OR OTHER

54.7% WHITE (NON-HISPANIC)

35.9% NO DATA



FEMALE 63.9%

MALE 30.9%

NONBINARY/-SELF-IDENTIFY



NO DATA





Elected Leadership Subgroup: Board of Directors (N=15)



RACE/ETHNICITY





20.0% BLACK OR AFRICAN AMERICAN

0.0% HISPANIC OR LATINX

0.0% MULTI-RACIAL OR OTHER

73.3% WHITE (NON-HISPANIC)

0.0% NO DATA















Advisory Committees (N=74)



RACE/ETHNICITY

0.0% AMERICAN INDIAN OR ALASKA NATIVE

1.4% ASIAN OR PACIFIC ISLANDER

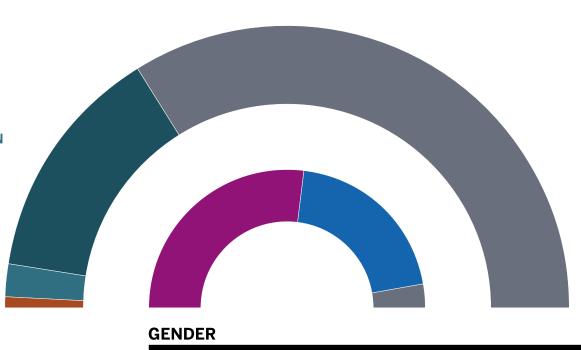
4.1% BLACK OR AFRICAN AMERICAN

0.0% HISPANIC OR LATINX

0.0% MULTI-RACIAL OR OTHER

27.0% WHITE (NON-HISPANIC)

67.6% NO DATA



FEMALE 54.1%

MALE 40.5%

NONBINARY/-SELF-IDENTIFY



NO DATA 5.4%



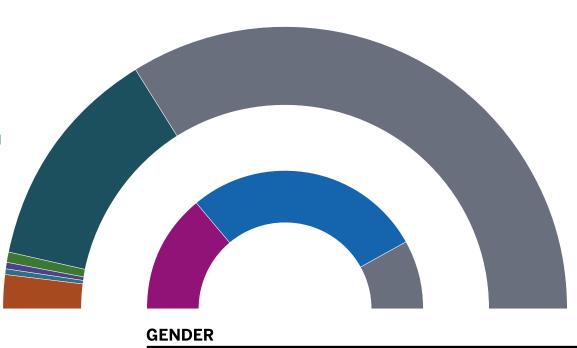
Science Family Editors and Advisors (N=720)



RACE/ETHNICITY

- **AMERICAN INDIAN OR ALASKA NATIVE**
- **ASIAN OR PACIFIC ISLANDER**
- **BLACK OR AFRICAN AMERICAN**
- **HISPANIC OR** LATINX
- **MULTI-RACIAL OR OTHER**
- WHITE (NON-HISPANIC)

NO DATA



FEMALE 28.1%

MALE 56.1%

NONBINARY/-SELF-IDENTIFY



NO DATA 15.8%





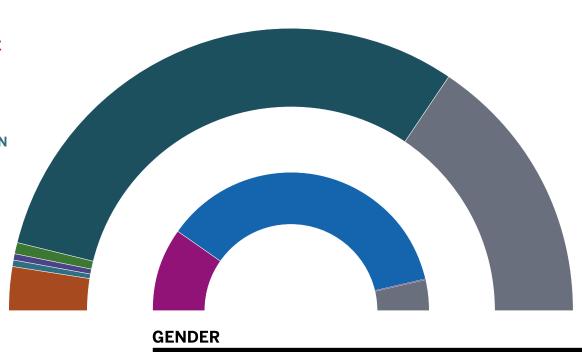
Honors and Awards Recipients (N=8,785)



RACE/ETHNICITY

- .0% AMERICAN INDIAN OR ALASKA NATIVE
- 5.3% ASIAN OR PACIFIC ISLANDER
- 0.8% BLACK OR AFRICAN AMERICAN
- 0.8% HISPANIC OR LATINX
- 1.4% MULTI-RACIAL OR OTHER
- 61.1% WHITE (NON-HISPANIC)

30.6% NO DATA



FEMALE 19.7%

MALE 73.3%

NONBINARY/-SELF-IDENTIFY

< 0.1%

NO DATA



Honors and Awards Recipients Subgroup: Honorary Fellows, All Active Members (N=8,734)



RACE/ETHNICITY **AMERICAN INDIAN OR ALASKA NATIVE ASIAN OR PACIFIC ISLANDER BLACK OR AFRICAN AMERICAN HISPANIC OR FEMALE** 19.6% LATINX **MULTI-RACIAL** MALE 73.4° **OR OTHER NONBINARY/-**WHITE **SELF-IDENTIFY** (NON-HISPANIC) NO DATA **NO DATA** GENDER

Honors and Awards Recipients Subgroup: Honorary Fellows, Class of 2019 (N=435)



RACE/ETHNICITY AMERICAN INDIAN OR ALASKA NATIVE ASIAN OR PACIFIC ISLANDER BLACK OR AFRICAN AMERICAN HISPANIC OR FEMALE 32.0% LATINX **MULTI-RACIAL** MALE 58.9% **OR OTHER NONBINARY/-**WHITE **SELF-IDENTIFY** (NON-HISPANIC) NO DATA **NO DATA GENDER**

Honors and Awards Selection Committees (N=102)



RACE/ETHNICITY





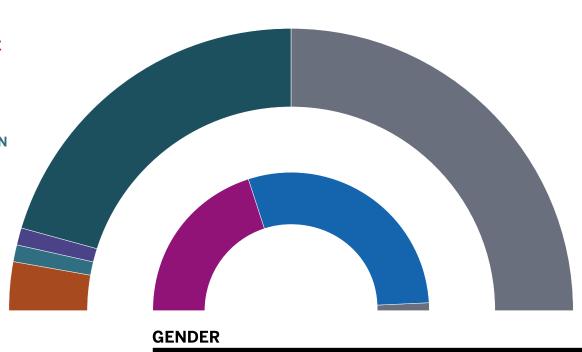
2.0% BLACK OR AFRICAN AMERICAN

2.0% HISPANIC OR LATINX

0.0% MULTI-RACIAL OR OTHER

40.2% WHITE (NON-HISPANIC)

50.0% NO DATA



FEMALE 40.2%

MALE 58.8%

NONBINARY/-SELF-IDENTIFY



NO DATA



Career Development/Fellowship Participants (N=667)

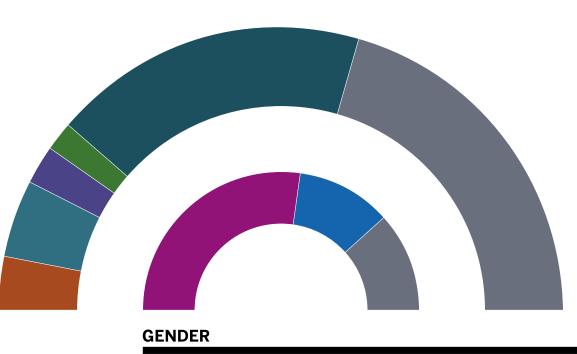


RACE/ETHNICITY



- 6.6% ASIAN OR PACIFIC ISLANDER
- 8.7% BLACK OR AFRICAN AMERICAN
- 4.6% HISPANIC OR LATINX
- 3.1% MULTI-RACIAL OR OTHER
- 36.4% WHITE (NON-HISPANIC)

40.5% NO DATA



FEMALE 54.7%

MALE 22.0%

NONBINARY/-SELF-IDENTIFY



NO DATA 23.2°



Career Development/Fellowship Participants Subgroup: S&T Policy Fellows (N=281)



RACE/ETHNICITY **AMERICAN INDIAN OR ALASKA NATIVE ASIAN OR PACIFIC ISLANDER BLACK OR AFRICAN AMERICAN HISPANIC OR** FEMALE 64.4 LATINX **MULTI-RACIAL** MALE 35.2% **OR OTHER NONBINARY/-**WHITE **SELF-IDENTIFY** (NON-HISPANIC) NO DATA **NO DATA GENDER**

Career Development/Fellowship Selection Committees (N=259)



RACE/ETHNICITY **AMERICAN INDIAN OR ALASKA NATIVE ASIAN OR PACIFIC ISLANDER BLACK OR AFRICAN AMERICAN HISPANIC OR FEMALE 68.0%** LATINX **MULTI-RACIAL** MALE 29.0% **OR OTHER NONBINARY/-**WHITE **SELF-IDENTIFY** (NON-HISPANIC) NO DATA **NO DATA GENDER**

Speakers and Presenters at Major AAAS Events (N=844)



RACE/ETHNICITY





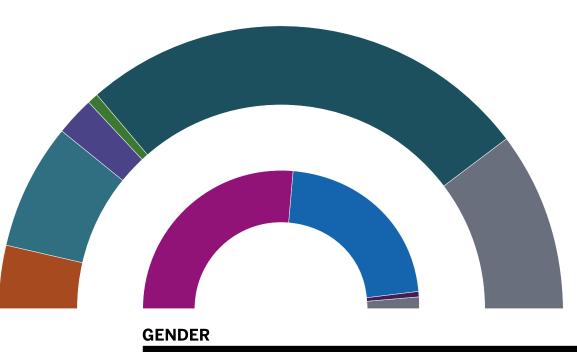
14.1% BLACK OR AFRICAN AMERICAN

4.6% HISPANIC OR LATINX

1.4% MULTI-RACIAL OR OTHER

52.1³⁶ WHITE (NON-HISPANIC)

20.1% NO DATA



FEMALE 53.3%

MALE 44.1%

NONBINARY/-SELF-IDENTIFY



NO DATA



1/25/2021

AAAS Program Volunteers (N=3,676)



RACE/ETHNICITY

AMERICAN INDIAN OR ALASKA NATIVE

ASIAN OR PACIFIC ISLANDER

BLACK OR AFRICAN AMERICAN

HISPANIC OR LATINX

MULTI-RACIAL OR OTHER

WHITE (NON-HISPANIC)

NO DATA



FEMALE 39.8%

MALE 45.7%

NONBINARY/-SELF-IDENTIFY



NO DATA 14.5°

1/25/2021



Science Family Authors and Reviewers Subgroup: Report Authors (N=33,453)



RACE/ETHNICITY **AMERICAN INDIAN OR ALASKA NATIVE ASIAN OR PACIFIC ISLANDER BLACK OR AFRICAN AMERICAN HISPANIC OR FEMALE 20.0%** LATINX **MULTI-RACIAL** MALE **OR OTHER NONBINARY/-**WHITE **SELF-IDENTIFY** (NON-HISPANIC) NO DATA 38.5 **NO DATA GENDER**

Science Family Authors and Reviewers Subgroup: Review Authors (N=518)



RACE/ETHNICITY **AMERICAN INDIAN OR ALASKA NATIVE ASIAN OR PACIFIC ISLANDER BLACK OR AFRICAN AMERICAN HISPANIC OR FEMALE** 27.4% LATINX **MULTI-RACIAL** MALE 54.2° **OR OTHER NONBINARY/-**WHITE **SELF-IDENTIFY** (NON-HISPANIC) **NO DATA 18.3 NO DATA GENDER**

Science Family Authors and Reviewers Subgroup: Commentary Authors (N=1,133)



RACE/ETHNICITY **AMERICAN INDIAN OR ALASKA NATIVE ASIAN OR PACIFIC ISLANDER BLACK OR AFRICAN AMERICAN HISPANIC OR FEMALE 28.2**% LATINX **MULTI-RACIAL** MALE 55.1% **OR OTHER NONBINARY/-**WHITE **SELF-IDENTIFY** (NON-HISPANIC) NO DATA **NO DATA** GENDER

Science Family Authors and Reviewers Subgroup: Reviewers (N=16,734)



RACE/ETHNICITY AMERICAN INDIAN OR ALASKA NATIVE ASIAN OR PACIFIC ISLANDER BLACK OR AFRICAN AMERICAN HISPANIC OR FEMALE 19.7% LATINX **MULTI-RACIAL** MALE **OR OTHER NONBINARY/-**WHITE **SELF-IDENTIFY** (NON-HISPANIC) NO DATA 22.89 **NO DATA GENDER**



APPENDIX D: GENDER ESTIMATES



AAAS/Science Functions (N=13,480)

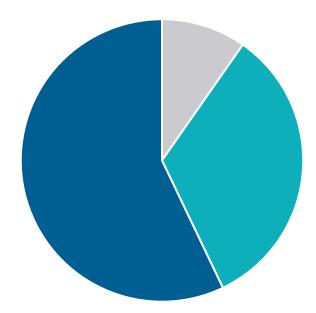


Gender Coverage and Estimates:

No Data: 9.7%

Estimated: 33.2%

Self-report: 57.1%



Staff Leadership (N=21)

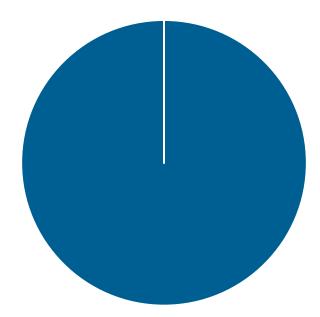


Gender Coverage and Estimates:

No Data: 0.0%

Estimated: 0.0%

Self-report: 100%



Elected Leadership (N=404)

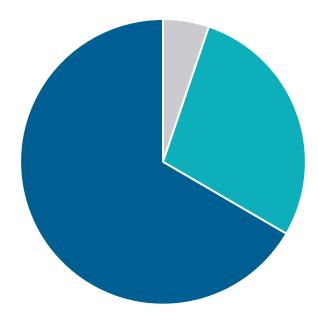


Gender Coverage and Estimates:

No Data: 5.2%

Estimated: 28.2%

Self-report: 66.6%



Elected Leaders Subgroup: Board of Directors (N=15)

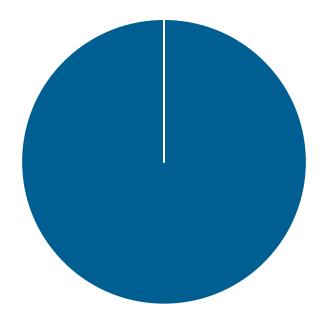


Gender Coverage and Estimates:

No Data: 0.0%

Estimated: 0.0%

Self-report: 100%



Advisory Committees (N=74)

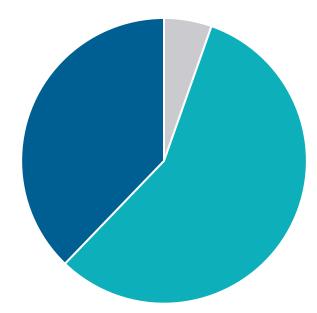


Gender Coverage and Estimates:

No Data: 5.4%

Estimated: 56.8%

Self-report: 37.8%



Science Editors and Advisors (N=720)

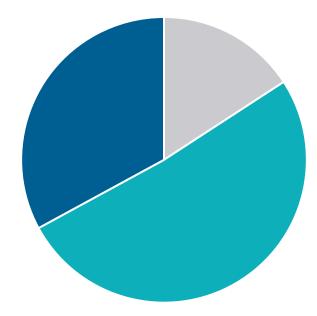


Gender Coverage and Estimates:

No Data: 15.8%

Estimated: 51.2%

Self-report: 32.9%



Honors and Awards Recipients (N=8,875)

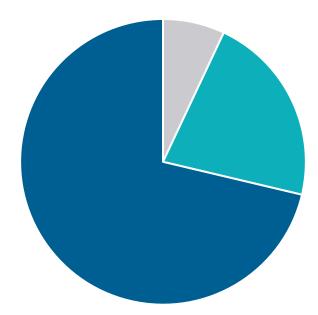


Gender Coverage and Estimates:

No Data: 7.0%

Estimated: 21.7%

Self-report: 71.3%





Honors and Awards Recipients Subgroup: Honorary Fellows, All Active Members (N=8,734)

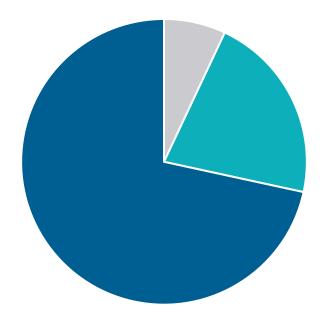


Gender Coverage and Estimates:

No Data: 7.0%

Estimated: 21.4%

Self-report: 71.6%



Honors and Awards Recipients Subgroup: Honorary Fellows, Class of 2019 (N=435)

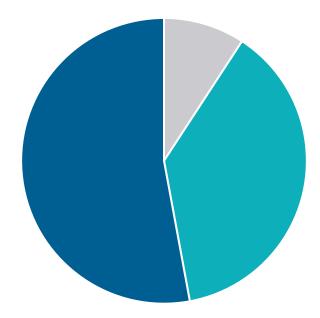


Gender Coverage and Estimates:

No Data: 9.2%

Estimated: 37.9%

Self-report: 52.9%



Honors and Award Selection Committees (N=102)

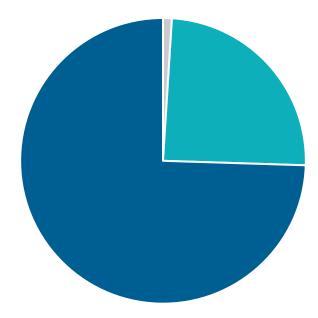


Gender Coverage and Estimates:

No Data: 1.0%

Estimated: 24.5%

Self-report: 74.5%



Career/Development Fellowship Participants (N=667)

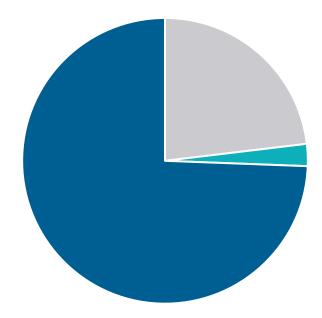


Gender Coverage and Estimates:

No Data: 23.1%

Estimated: 2.5%

Self-report: 74.4%



1/25/2021

Career Development/Fellowship Participants Subgroup: S&T Policy Fellows (N=281)

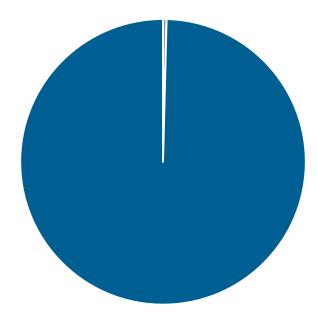


Gender Coverage and Estimates:

No Data: 0.4%

Estimated: 0.0%

Self-report: 99.6%



Career/Development Fellowship Selection Committees (N=259)

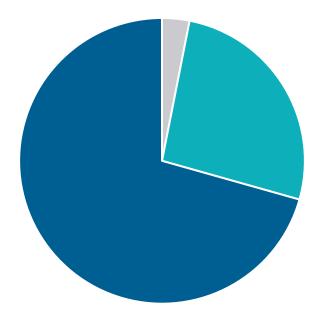


Gender Coverage and Estimates:

No Data: 3.1%

Estimated: 26.3%

Self-report: 70.7%



Speakers and Presenters at Major AAAS Events (N=844)

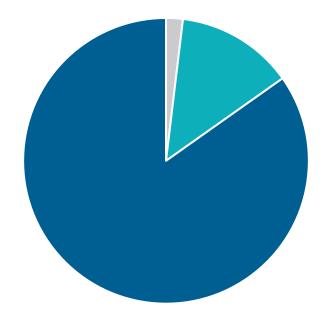


Gender Coverage and Estimates:

No Data: 1.9%

Estimated: 13.3%

Self-report: 84.8%



Volunteers (N=3,676)

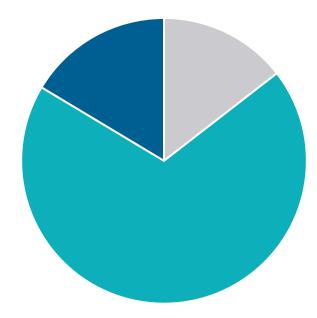


Gender Coverage and Estimates:

No Data: 14.5%

Estimated: 69.1%

Self-report: 16.4%



Science Family Authors and Reviewers (N=49,316)

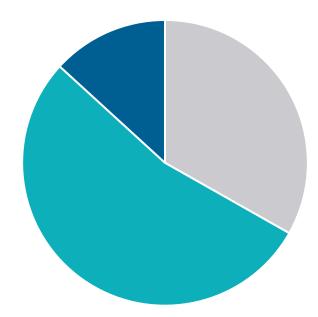


Gender Coverage and Estimates:

No Data: 33.2%

Estimated: 53.6%

Self-report: 13.2%



Science Family Authors and Reviewers Subgroup: Report Authors (N=33,453)

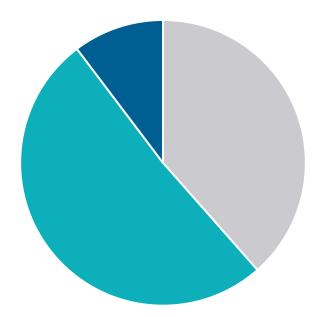


Gender Coverage and Estimates:

No Data: 38.5%

Estimated: 51.2%

Self-report: 10.3%



Science Family Authors and Reviewers Subgroup: Review Authors (N=518)

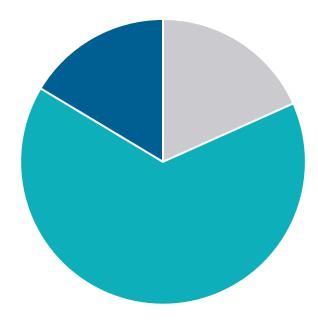


Gender Coverage and Estimates:

No Data: 18.3%

Estimated: 65.3%

Self-report: 16.4%



Science Family Authors and Reviewers Subgroup: Commentary Authors (N=1,133)

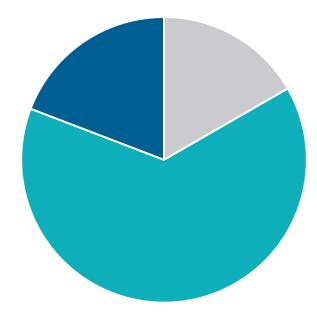


Gender Coverage and Estimates:

No Data: 16.7%

Estimated: 64.2%

Self-report: 19.2%



Science Family Authors and Reviewers Subgroup: Reviewers (N=16,734)

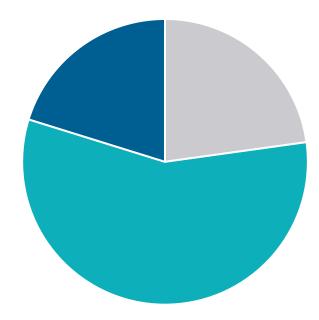


Gender Coverage and Estimates:

No Data: 22.8%

Estimated: 57.0%

Self-report: 20.2%





APPENDIX D: METHODOLOGY DETAILS



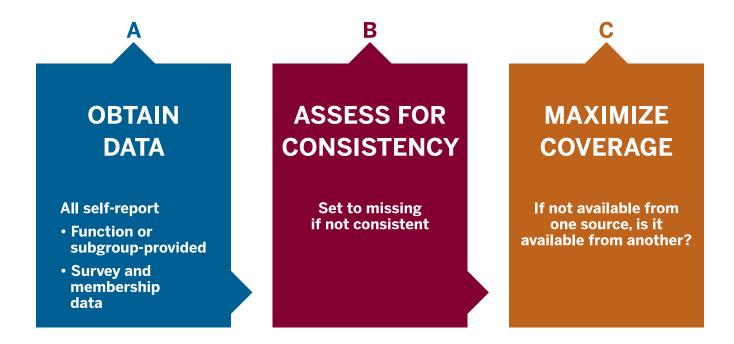
Step 1. Assemble Data for All AAAS/Science Functions and **Science** Family Authors and Reviewers



- Focus on AAAS and *Science* Family Functions that enable success and advancement in science and engineering.
- Obtained data for the "most recent" or "present" class of each AAAS and Science Family Function. For example:
 - 2020 Board of Directors.
 - 2020/21 class of S&T Policy Fellows.
 - 2019 class of Honorary Fellows.
 - Science Family Authors and Reviewers September 2019 through August 2020.

Step 2. Assess Assembled Demographic Data for Consistency Across Sources





Step 3. Estimate Gender





^{*}Lincoln Mullen (2018). Gender: Predict Gender from Names Using Historical Data. R package version 0.5.2.

Strengths and Weaknesses of "Gender R Package Version 0.5.2"



Strengths	Weaknesses
Has at least 98% accuracy rate for our population.	Can only infer gender likely to have been assigned at birth based on the name.
The name dictionary on which the packages relies is diverse and multiethnic.	Less accurate without birth-year data because some names change gender association over time, although this is minimized by selecting only those estimates with >95% confidence.

For additional information: https://docs.ropensci.org/gender/

Step 4. Decide Categories for Gender and Race/Ethnicity



Issue	Decision
Inconsistent use of "decline to answer" for ethnicity and/or gender across functions and subgroups.	Included "no data" category.
Some groups have race and ethnicity broken out into two questions where ethnicity identifies "Hispanic or Latinx" and race does not include this as an option; most have one race/ethnicity question where Hispanic/Latinx and "Two or more races/ethnicities" are options.	In cases where race and ethnicity are asked separately, If Hispanic or Latinx is selected, this designation supersedes the response to the second race question.

Step 5. Decide How to Count Individuals Within and Across Functions



Issue	Example	Decision
Individuals show up multiple times within a function.	In Staff Leadership, all Advisory Council members are also on the Leadership Team.	Counted once within the function
Individuals show up multiple times across functions.	An Elected Leader also is part of an award selection committee.	Counted in each function
Overall presentation of results.	Individuals show up in multiple functions and multiple subgroups.	Counted once for overall results

Step 6. Present Results



RACE/ETHNICITY

- 0.0% AMERICAN INDIAN OR ALASKA NATIVE
- 4.2% ASIAN OR PACIFIC ISLANDER
- 2.0% BLACK OR AFRICAN AMERICAN
- 1.2% HISPANIC OR LATINX
- 1.2% MULTI-RACIAL OR OTHER
- 44.5% WHITE (NON-HISPANIC)
- 46.9% NO DATA







NO DATA 9.7%

GENDER



APPENDIX E: LIMITATIONS





LIMITATIONS AND CONCERNS



Limitations and Concerns





DATA COVERAGE



DATA CONSISTENCY



ESTIMATED GENDER DATA



CONFIDENTIALITY



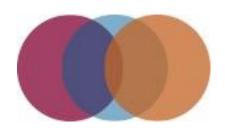
ETHICAL CONCERNS

Assessment of Limitations and Concerns









EXPOSING DATA ISSUES
NOW WILL LIKELY LEAD
TO IMPROVED DATA
OVER TIME.

THIS WILL BE AN IMPERFECT PROCESS.

TRANSPARENCY IS KEY.



APPENDIX F: RESULTS, SUMMARY, NEXT STEPS





RESULTS



Order of Results



- Reminder on Functions
- Executive Summary
- Data Coverage
- Results Overview
- Summary and Next Steps



RESULTS: REMINDER ON FUNCTIONS AND SUBGROUPS



Reminder on AAAS/Science Functions



Functions are not limited to AAAS staff members but include elected leadership, award winners, program participants, award and program selection committees, etc.; *Science* Family Authors and Reviewers are examined separately.

Note: Refer to slides 5-7 and Appendix A for details.





RESULTS: EXECUTIVE SUMMARY



Executive Summary: Coverage of Demographic Variables





Data coverage (usable data available, including estimated data) for gender is high for AAAS/Science Functions and moderate for Science Family Authors and Reviewers.

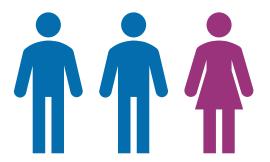
Race/ethnicity coverage is moderate for AAAS/Science Functions and low for Science Family Authors and Reviewers.



Note: High coverage: ≥ 80%; moderate coverage: 50-79%; low coverage: <50%

Executive Summary: Gender Representation





AAAS has some functions in which the ratio of males to females is balanced or favors females, but overall, males outnumber females 2:1.

Science Family Authors and Reviewers' ratio of males to females is 2:1 in favor of males.

Note: These ratios exclude missing data.

Executive Summary: Race/Ethnicity Representation



[12:1]

People who are White (non-Hispanic) outnumber people of all other ethnicities 12:1 for Honors and Awards Recipients, a nomination-based AAAS/Science Function.

5:1

People who are White (non-Hispanic) outnumber people of all other ethnicities 5:1 for Career Development/Fellowship Participants, an application-based AAAS/Science Function.

2:1

It is difficult to assess ethnicity representation for *Science* Family Authors and Reviewers due to missing data, but what we have indicates that White (non-Hispanic) people outnumber people of all other ethnicities by at least 2:1.

Note: These ratios exclude missing data.

Executive Summary: Next Steps, Improve Data & Processes



Improve/develop
systems for collecting
demographic data for
all AAAS/Science
Functions and Science
Family Authors and
Reviewers

Develop system for linking data

AAAS/Science
Functions and Science
Family Authors and
Reviewers

ethical methods for estimating race/ethnicity



Improve coverage with self-report data

Improve consistency and facilitate analyses

Improve coverage





RESULTS: DATA COVERAGE

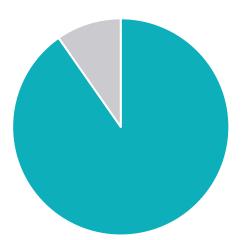


Data Coverage: Overall Gender



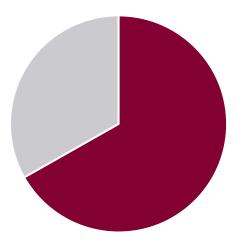
AAAS/Science Functions (N=13,480)

No Data: 9.7%
Covered: 90.3%



Science Family Authors and Reviewers (N=49,316)

No Data: 33.2%
Covered: 66.8%



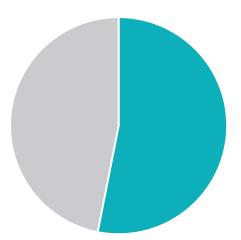
Note: "Covered" means usable gender data (including estimated data) are available; "no data" means gender data are missing.

Data Coverage: Overall Race/Ethnicity



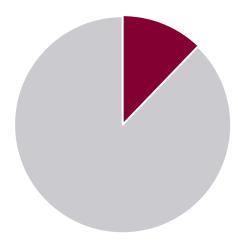
AAAS/Science Functions (N=13,480)

No Data: 46.9%
Covered: 53.1%



Science Family Authors and Reviewers (N=49,316)

No Data: 87.8%
Covered: 12.2%



Note: "Covered" means usable race/ethnicity data are available; "no data" means race/ethnicity data are missing.



RESULTS: OVERVIEW



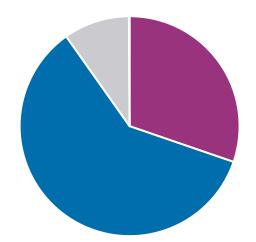
1/25/2021

Overview: Gender Representation



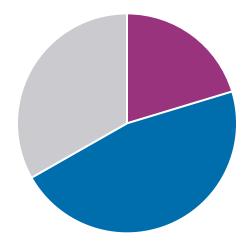
AAAS/Science Functions (N=13,480)

- No Data: 9.7% Female: 30.3%
- Male: 60.0%
- Non-binary/Self-identify: 0.1%



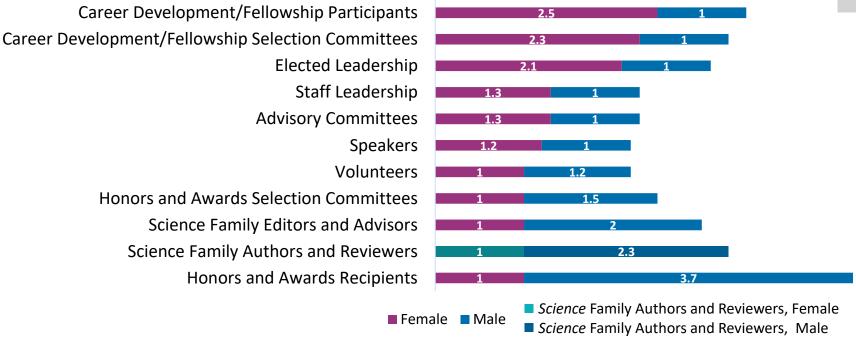
Science Family Authors and Reviewers (N=49,316)

- No Data: 33.2%
- Female: 20.3%
- Male: 46.4%
- Non-binary/Self-identify: < 0.1%



Overview: Gender Ratios



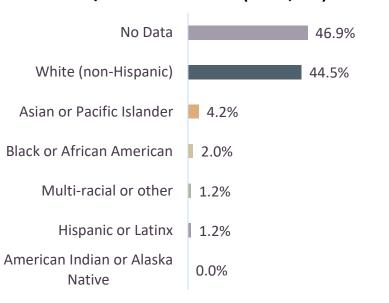


Note: Each bar presents the ratio of males to females, excluding missing data. For example, the top bar shows that females outnumber males by nearly 3:1 among Career Development/Fellowship Participants. The bottom bar shows that males outnumber females nearly 4:1 among Honors and Awards Recipients.

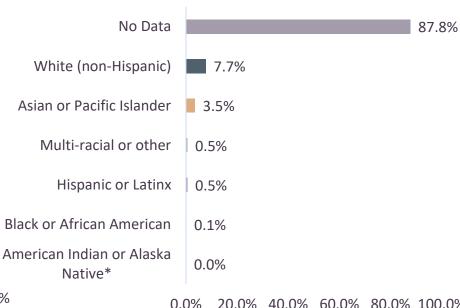
Overview: Race/Ethnicity Representation



AAAS/Science Functions (N=13,480)



Science Family Authors and Reviewers (N=49,316)

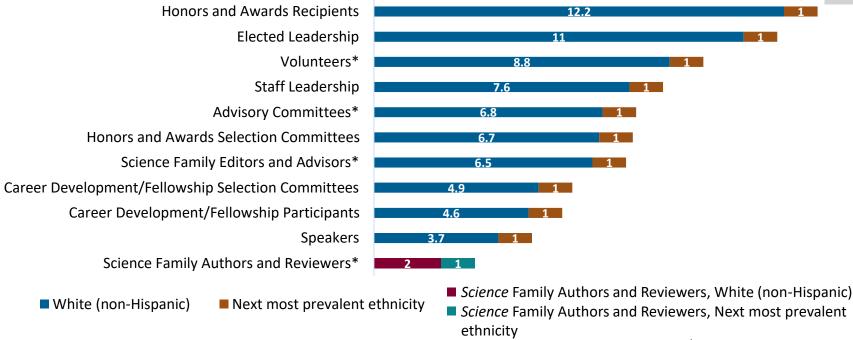


0.0% 20.0% 40.0% 60.0% 80.0% 100.0%

0.0% 20.0% 40.0% 60.0% 80.0% 100.0% *Indicates<0.1%

Overview: Race/Ethnicity Ratios





Notes: Each bar presents the ratio of White (non-Hispanic) function members to the next most prominent race/ethnicity, excluding missing data. For example, the top bar shows that White (non-Hispanic) members outnumber any other race/ethnicity by at least 12:1 among Honors and Awards Recipients. *Interpret with caution; coverage for ethnicity was <50 percent.



SUMMARY AND NEXT STEPS



Summary



Data coverage for both gender and ethnicity has room for improvement.

Males outnumber females 2:1 across all AAAS/Science Functions (total) and Science Family Authors and Reviewers.

All AAAS/Science Functions and Science Family Authors and Reviewers are predominately White (non-Hispanic).

Nomination-based functions and subgroups are more lopsided toward males and White (non-Hispanic) people than application-based functions and subgroups.

Next Steps: AAAS will improve...



Data for future reports of AAAS' demographics

Data collection processes and storage systems

Coverage of demographic variables