2025 SIAG/CSE

SIAM Conference on Computational Science and Engineering

Computational Science and Engineering Activity Group Business Meeting

Wednesday, March 5th, 6:15 - 7:00 pm
Sundance 3, Omni
Fort Worth Convention Center

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SIAG/CSE Officers

Chair:
Julianne Chung

*

Vice Chair:
Edmond Chow

*

Program Director:
Sarah Knepper

*

Secretary:
Benjamin Peherstorfer

SIAG/CSE Thank you to all 2023/2024 Officers

Chair:
Judith Hill

*

Vice Chair:
Philipp Birken

*

Program Director:
Edmond Chow

*

Secretary:
Sara Pollock

SIAG/CSE Announcements

- SIAM Engage:
  - https://engage.siam.org/communities/siag-cse-home?CommunityKey=2ae89a07-dad8-4ead-8cc6-bf67efd6a05c
- SIAG/CSE websites:
  - https://www.siam.org/membership/activity-groups/detail/computational-science-and-engineering
  - https://siagcse.github.io/
- SIAM News: Story Ideas
- SIAM Blogs
- SIAG/CSE Leadership Suggestion Form:
  - https://www.siam.org/get-involved/connect-with-a-community/activity-groups/activity-group-leadership-suggestion/
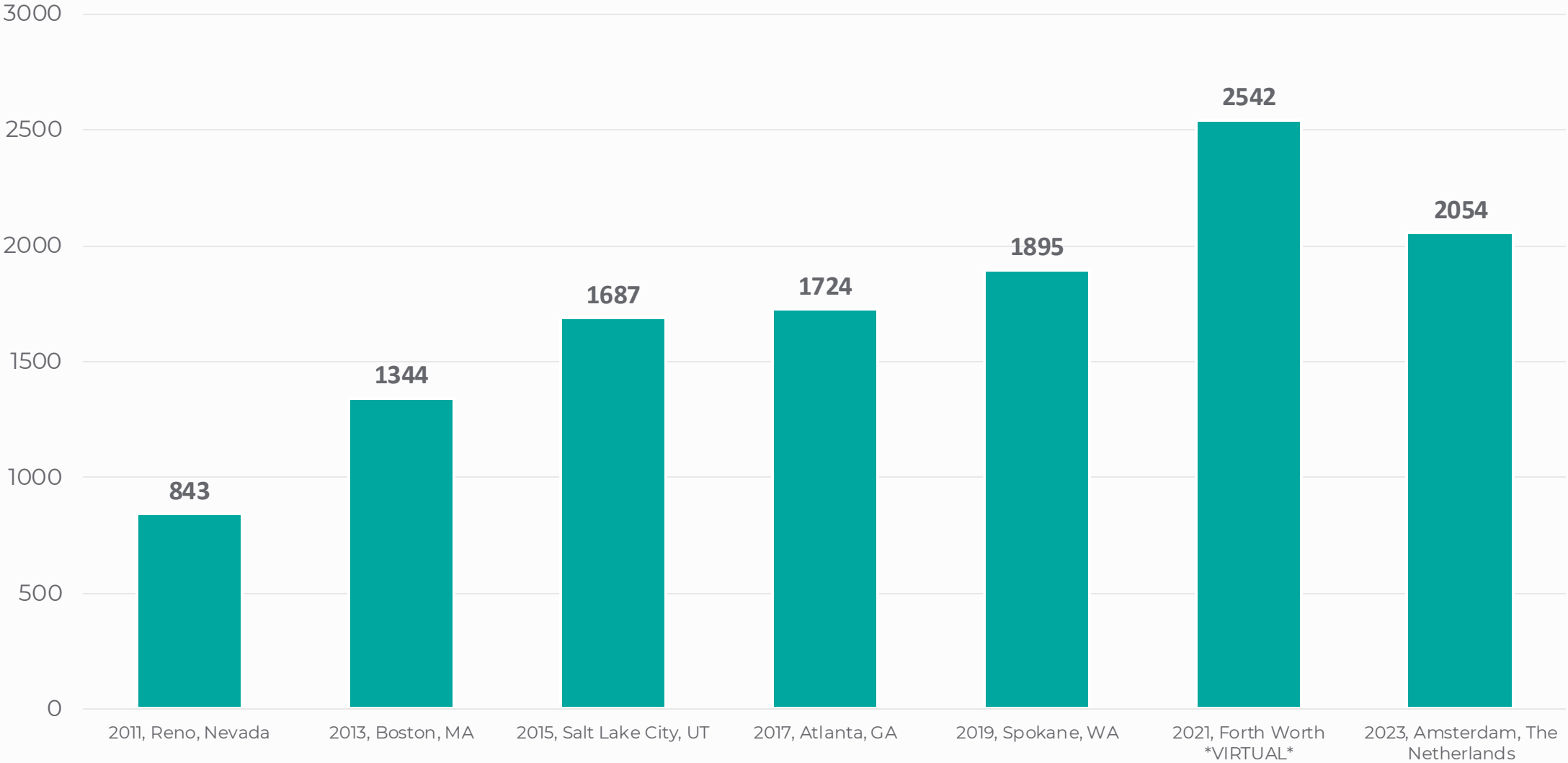
SIAG/CSE Fellows

Class of 2023

George Biros
Daniela Calvetti
Alina Chertock

Class of 2024

David Bindel
Hans de Sterck
Aaron Fogelson
Michael Friedlander
Carola-Bibiane
Schönlieb
Luis Nunes Vicente
Chao Yang
Ulrike Meier Yang

SIAG/CSE Conference History

Bar chart showing attendance numbers:
- 2011, Reno, Nevada: 843
- 2013, Boston, MA: 1344
- 2015, Salt Lake City, UT: 1687
- 2017, Atlanta, GA: 1724
- 2019, Spokane, WA: 1895
- 2021, Forth Worth *VIRTUAL*: 2542
- 2023, Amsterdam, The Netherlands: 2054

SIAG/CSE Conference 2025

Organizing Committee Co-Chairs

David Bindel, Cornell University, U.S.
Elizabeth Cherry, Georgia Institute of Technology, U.S.
Judith Hill, Lawrence Livermore National Laboratory, U.S.

Organizing Committee

Orly Alter, University of Utah, U.S.
Bubacarr Bah, African Institute for Mathematical Sciences, Gambia
Diego del Castillo-Negrete, Oak Ridge National Laboratory, U.S.
Amr El-Bakry, ExxonMobil Upstream Integrated Solutions, U.S.
Malena Espanol, Arizona State University, U.S.
Silke Glas, University of Twente, Netherlands
Jeff Hammond, NVIDIA, Finland
Boris Kramer, University of California San Diego, U.S.
Alicia Klinvex, US Naval Nuclear Laboratory, U.S.
Mary Ann Leung, Sustainable Horizons Institute, U.S.
Nicholas Malaya, AMD, U.S.
Christopher Marcotte, University of Durham, United Kingdom
Paulina Sepulveda Salas, Pontificia Universidad Catolica De Valparaiso, Chile
Cynthia Phillips, Sandia National Laboratories, U.S.
Tetsuya Sakurai, University of Tsukuba, Japan

SIAG/CSE Conference 2025

SIAG/CSE Best Paper Prize

Tensor-Tensor Algebra for Optimal Representation and Compression of Multiway Data
Monday, March 3rd, 1:10 PM – 1:40 PM
Room: Ballroom AB
Chair: Julianne Chung, *Emory University, U.S.*

From left to right: Haim Avron, Elizabeth Newman, and Lior Horesh

Misha E. Kilmer
Tufts University, U.S.

Lior Horesh
IBM Research, U.S.

Haim Avron
Tel Aviv University, Israel

Elizabeth Newman
Emory University, U.S.

Misha E. Kilmer

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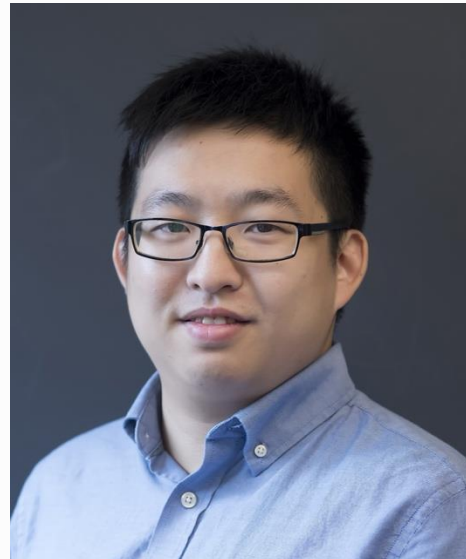
SIAG/CSE Conference 2025

SIAG/CSE Early Career Prize

Solving High-Dimensional Partial Differential Equations using Deep Learning: Original Insights and Recent Progress

Monday, March 3rd, 1:40 PM – 2:10 PM
Room: Ballroom AB
Chair: Julianne Chung, *Emory University, U.S.*

Jiequn Han
Flatiron Institute, U.S

SIAG/CSE Conference 2025

SIAM Travel Awards

SIAM Operating Funds & Donations from SIAM community.
Thank you to our donors!
https://siam.org/donate

> **74 Travel Award Recipients**
> - 48 U.S. Students
> - 13 Non-U.S. Students
> - 13 Early Career Researchers

SIAM is currently accepting travel award applications for 2025 conferences – **full-time students** and **U.S.-based early career researchers** are encouraged to apply!

Learn more: https://www.siam.org/conferences-events/conference-support/travel-and-registration-support/

July 28th – August 1st, 2025
Montréal Convention Center
Montréal, Québec, Canada

The Annual Meeting provides a broad view of the state of the art in applied mathematics, computational and data science, and their applications through invited presentations, prize lectures, minitutorials, minisymposia, contributed presentations, and posters.

Organizing Committee Co-Chairs

Sue Ann Campbell, University of Waterloo, Canada
Arvind K. Saibaba, North Carolina State University, U.S.

SIAM Conference on Computational Science and Engineering (CSE27)

February 22nd – 26th, 2027
Pittsburgh, Pennsylvania, U.S.

The Call for Participation is scheduled to be posted **April 2026**

Gene Golub SIAM Summer School (G2S3)

Frontiers in multi-dimensional pattern formation

August 4th - 15th, 2025

Concordia University, Montreal, Quebec, CA

This summer school will study the current frontiers of research in the mathematical study of patterns, with a particular emphasis on the study of patterns in multiple space dimensions. Planned courses will highlight the important aspects of the known theory (mainly focusing on developments in the past 20 years), while providing a springboard for students to begin work in the frontiers of the field.

SIAM will be accepting proposals for the 2027 school in the fall

For more information visit: https://www.siam.org/students-education/programs-initiatives/gene-golub-siam-summer-school

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Benefits of SIAM Membership Include………

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- *SIAM News* (Print)
- 30% Off SIAM Books
- $15 / Activity Group Membership
- 20% - 30% Off Registrations
- 80% Off Journals (up to 4)
- 95% Off e-Access to Journals
- Spouse may join as Associate Member
- *SIAM Unwrapped*

- Vote in SIAM Elections
- Eligible to Hold Office
- Eligible for Committee Appointments
- Nominate SIAM Fellows
- Be Nominated as a SIAM Fellow
- Eligible for Group Insurance
- Nominate 2 Students for Free Membership
- Qualifying Student Members can join 2 SIAGs for *free*!
- SIAG membership FREE for one year

Already a member?

Nominate student members!

SIAM nonstudent members in good standing can nominate up to **two students per year** for **free membership** in SIAM.

SIAM student members can join **two activity groups** for free, **publish** in *SIAM Undergraduate Research Online* (SIURO), get **career advice** in *SIAM News,* win **student prizes** to award excellence, attend **career workshops** such as resume building sessions, and apply for student **travel awards** to SIAM conferences.

To nominate students, scan the QR code or visit:
https://www.siam.org/membership/nominate-a-student-for-complimentary-siam-membership/
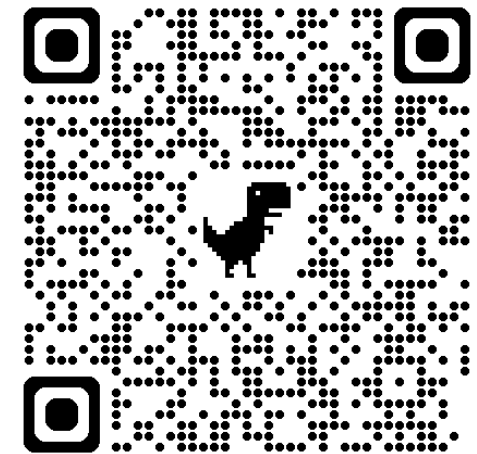
SIAM Journals

SIAM's 18 journals are all available for download on SIAM's virtual library, epubs.siam.org. SIAM's virtual library is the definitive source for the final, peer-reviewed version of every published article, so be sure to utilize it!

Questions about using epubls.siam.org? Contact sales@siam.org for a user guide and personal assistance!
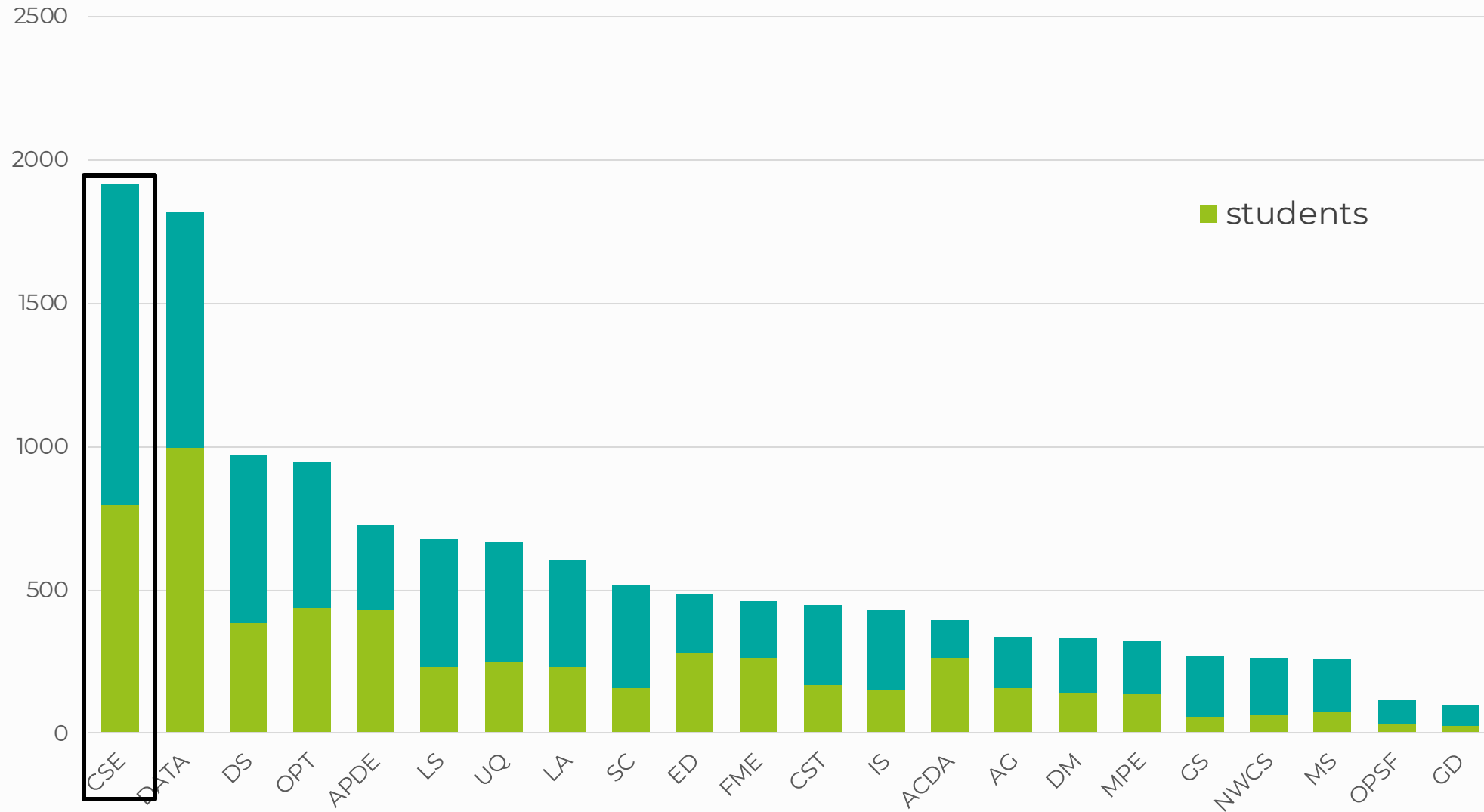
Future conferences?

LOCATION

DATES

THEMES

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2025 SIAG/CSE

Membership Report
(data as of December 31, 2024)

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SIAG/CSE Overall Membership

■ students

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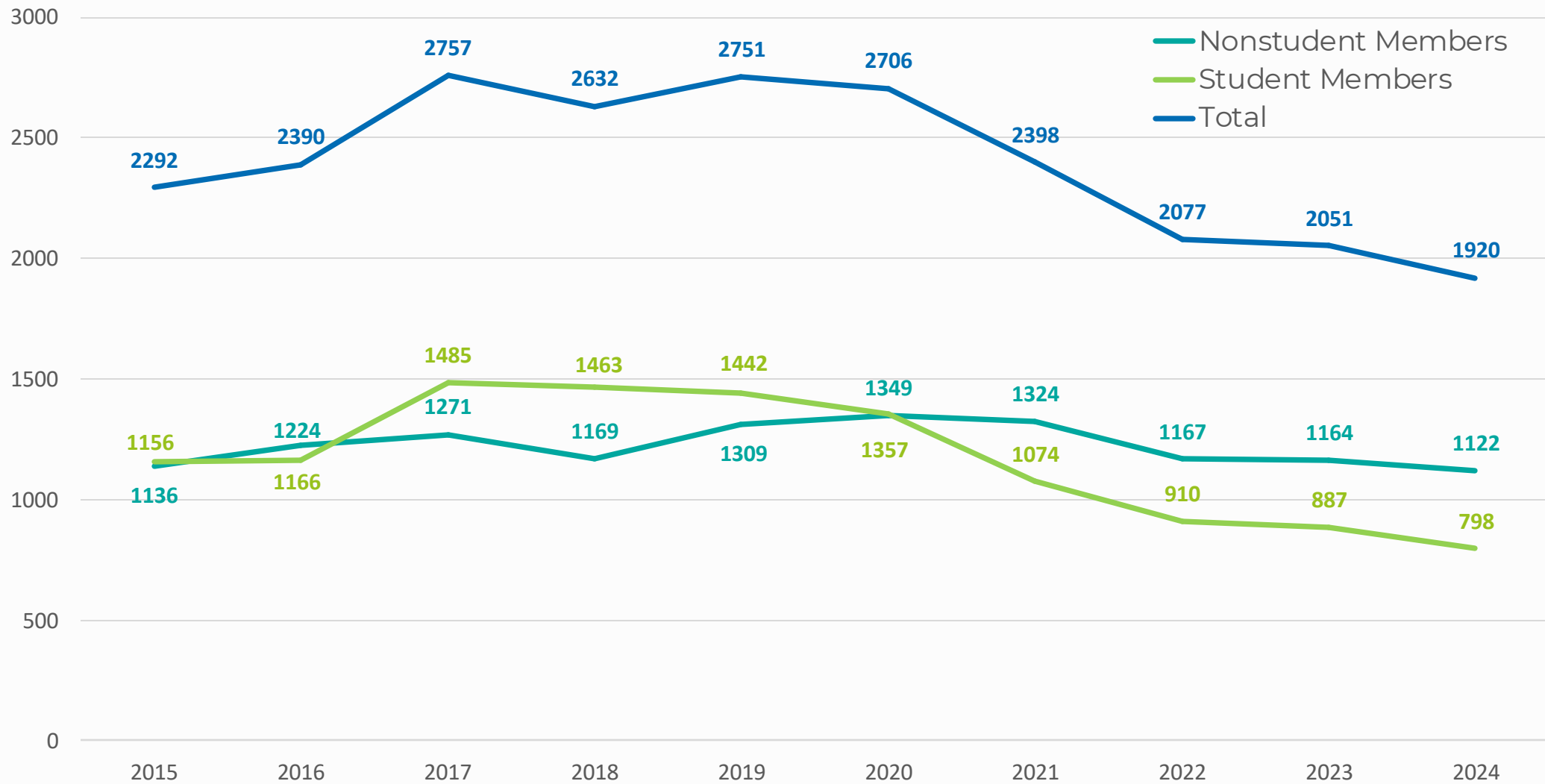
SIAG/CSE Membership Demographics

SIAG/CSE Membership Demographics

Student
798
41.6%

Nonstudent
1122
58.4%

Society for Industrial and Applied Mathematics
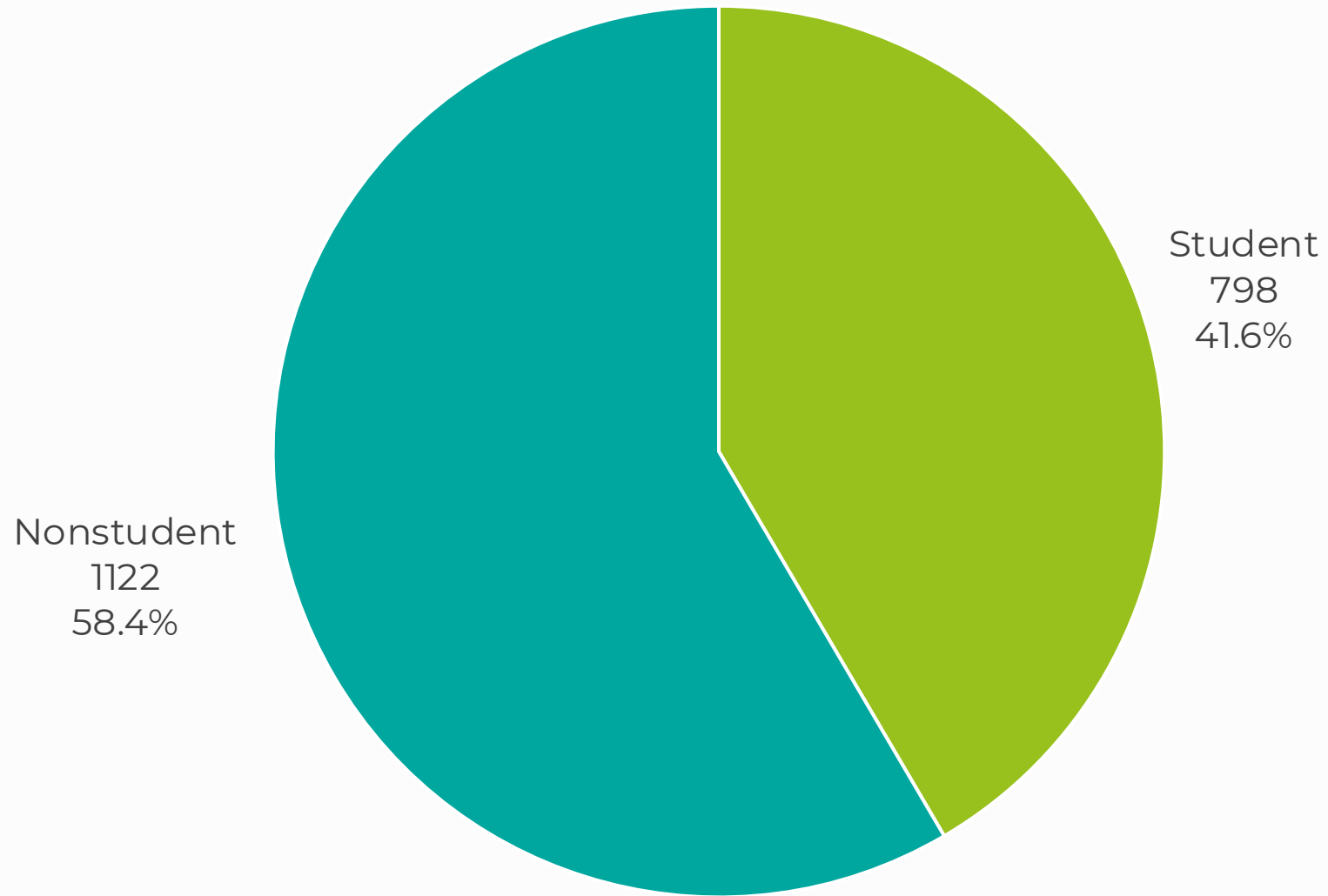
SIAG/CSE Membership by Geography
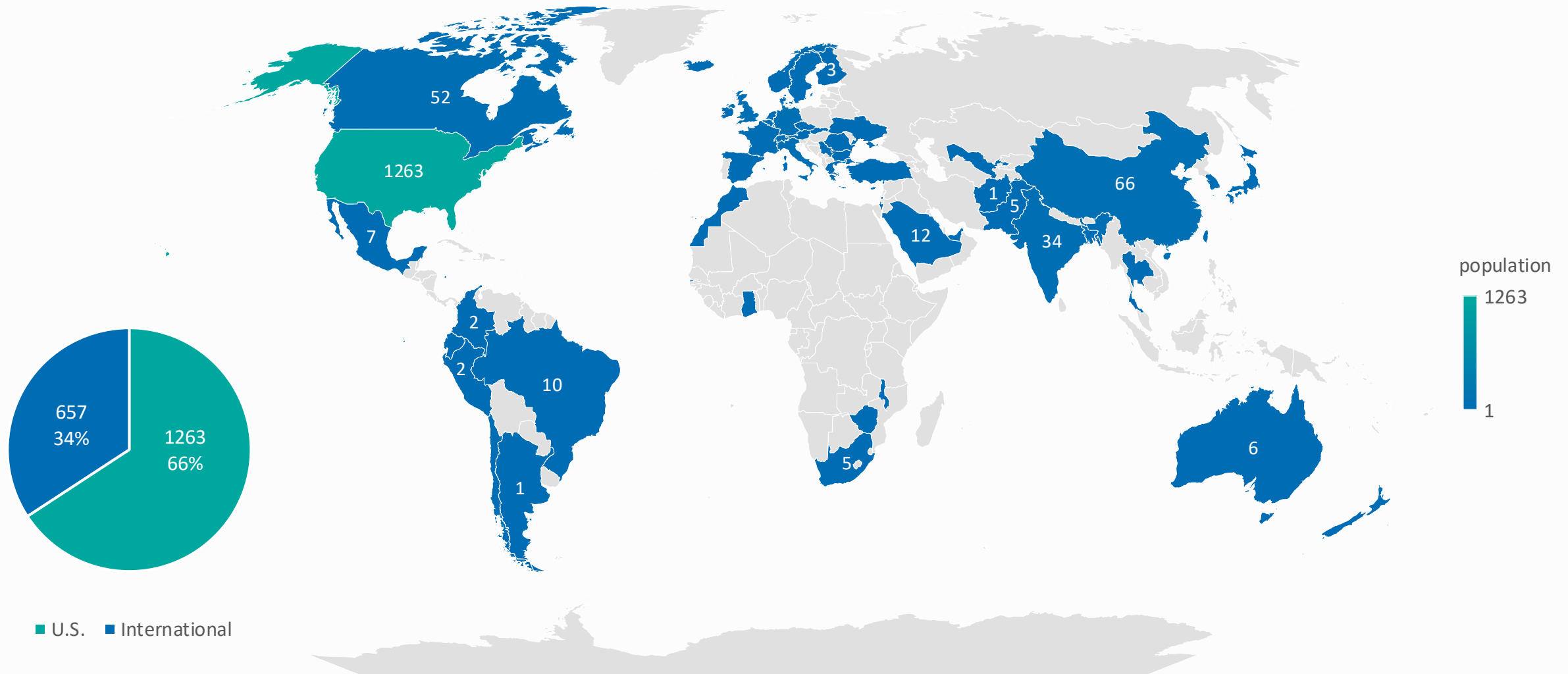
2025 SIAG/CSE BUSINESS MEETING

SIAG/CSE Membership by Gender
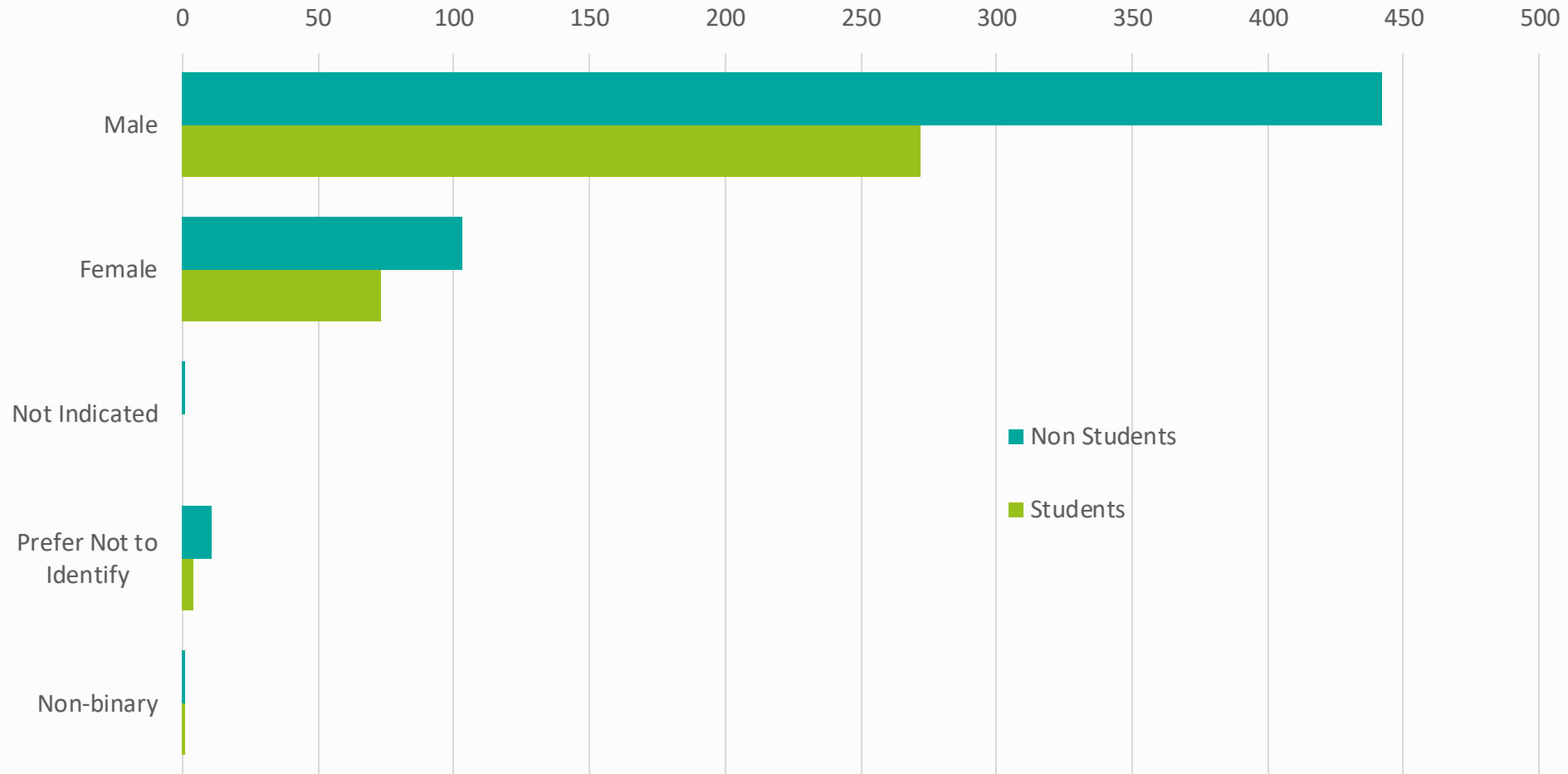
SIAG/CSE Membership by Employer Type

Government
59
4%

Industry/Business
119
8%

Laboratory
163
11%

Other
28
2%

Academia
1105
75%
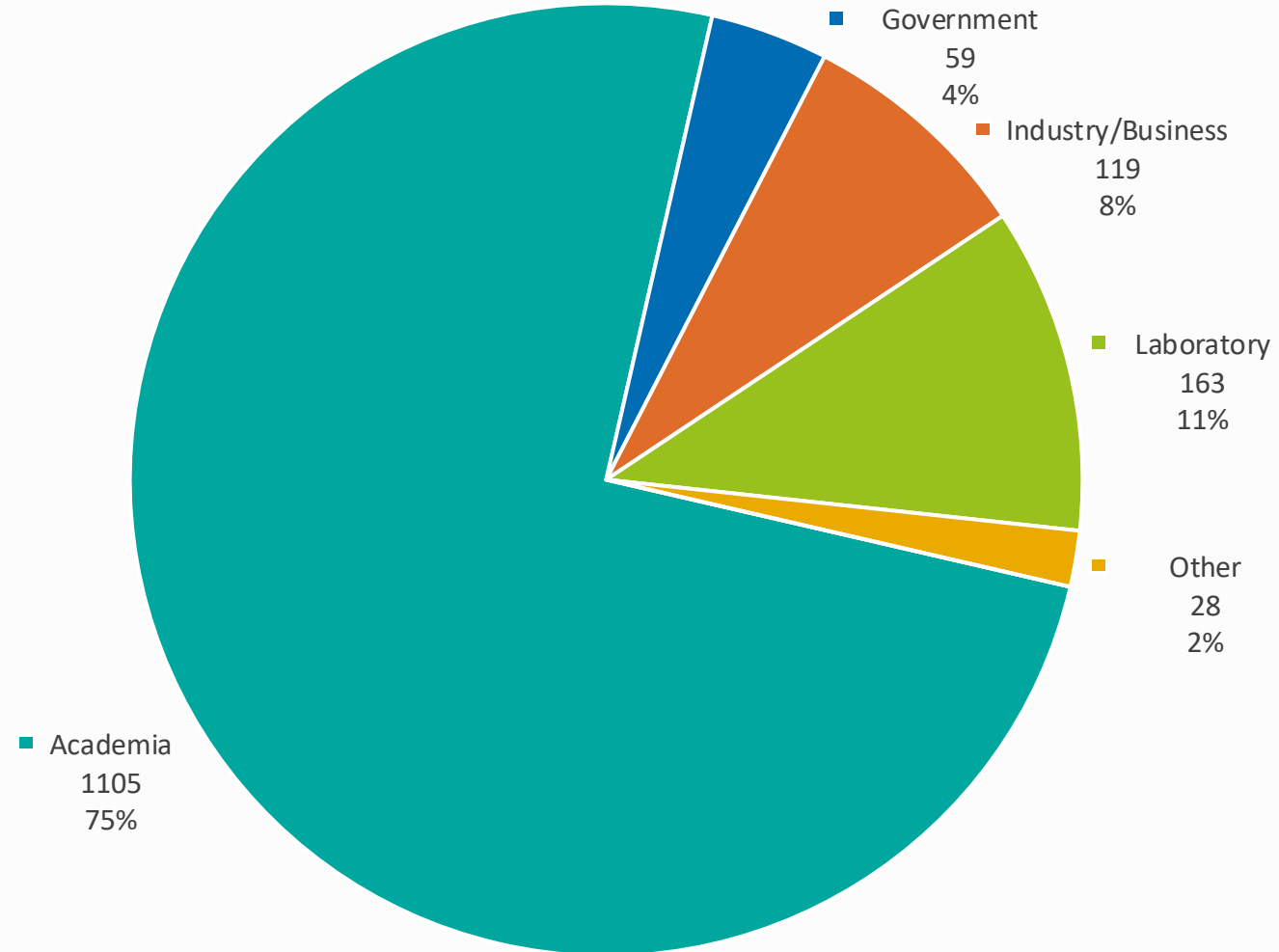
SIAG/CSE Membership by Department Type
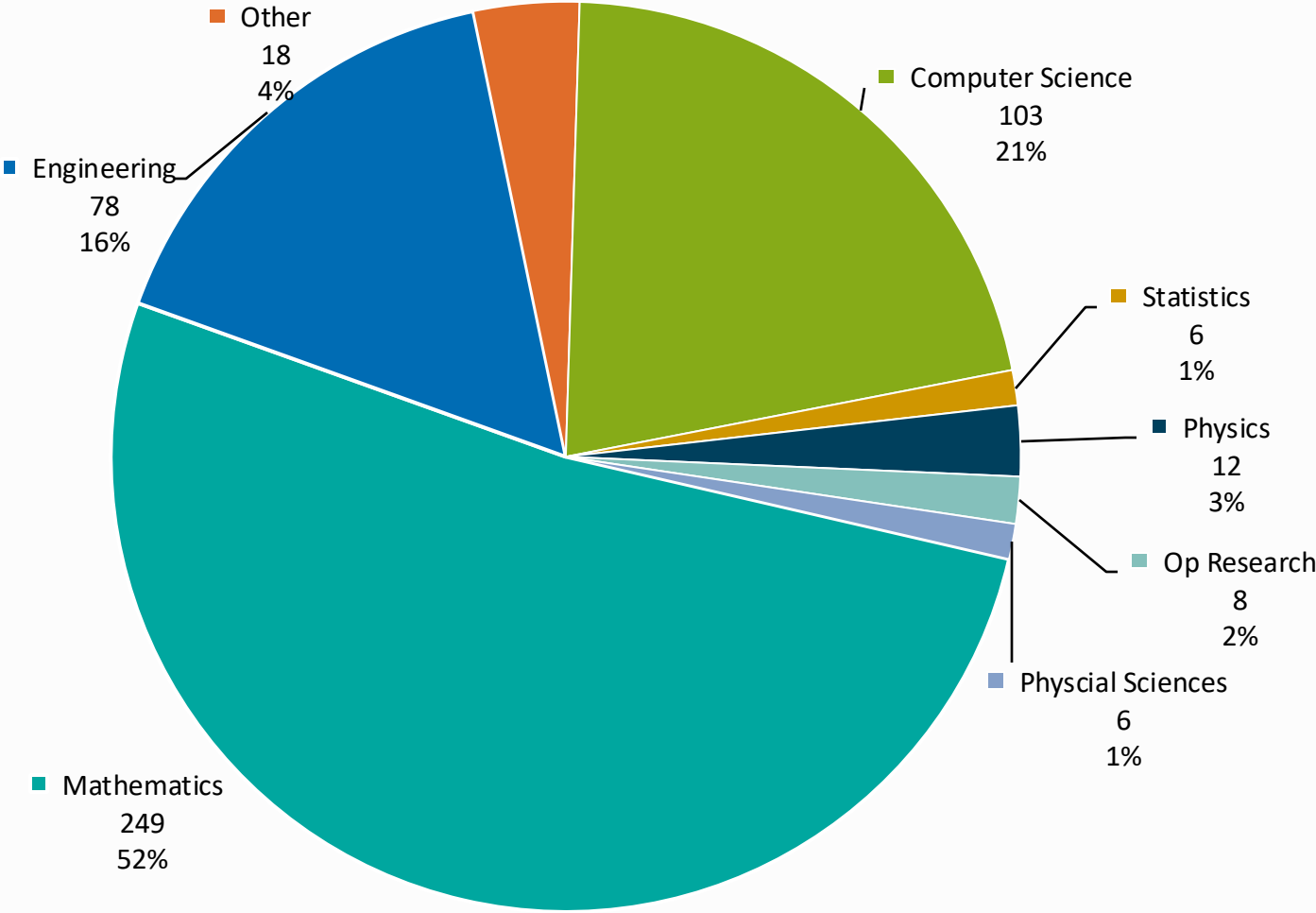
Other Business

Contacts

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	sarah.knepper@intel.com
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	pehersto@cims.nyu.edu

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