2026 SIAG/UQ

SIAM Conference on Uncertainty Quantification

Uncertainty Quantification Business Meeting

Tuesday, March 24th, 12:45-1:45pm CDT
Hyatt Regency Minneapolis
Minneapolis, Minnesota, U.S.

2026 SIAG/UQ BUSINESS MEETING

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SIAG/UQ Officers

Chair:
Karen Veroy-Grepl
*
Vice Chair:
Georg Stadler
*
Program Director:
Robert Scheichl
*
Secretary:
Teresa Portone

SIAG/UQ Announcements

- SIAM Engage:
  - https://engage.siam.org/communities/siag-uq-home?CommunityKey=cc2f5a14-a5c1-41e1-9fa8-0b71492544cb
- SIAG/UQ websites:
  - https://www.siam.org/membership/activity-groups/detail/uncertainty-quantification

    SIAM News: Story Ideas
- SIAM Blogs
- SIAG/UQ Leadership Suggestion Form:
  - https://www.siam.org/forms/siam-activity-group-leadership-form

SIAG/UQ Fellows

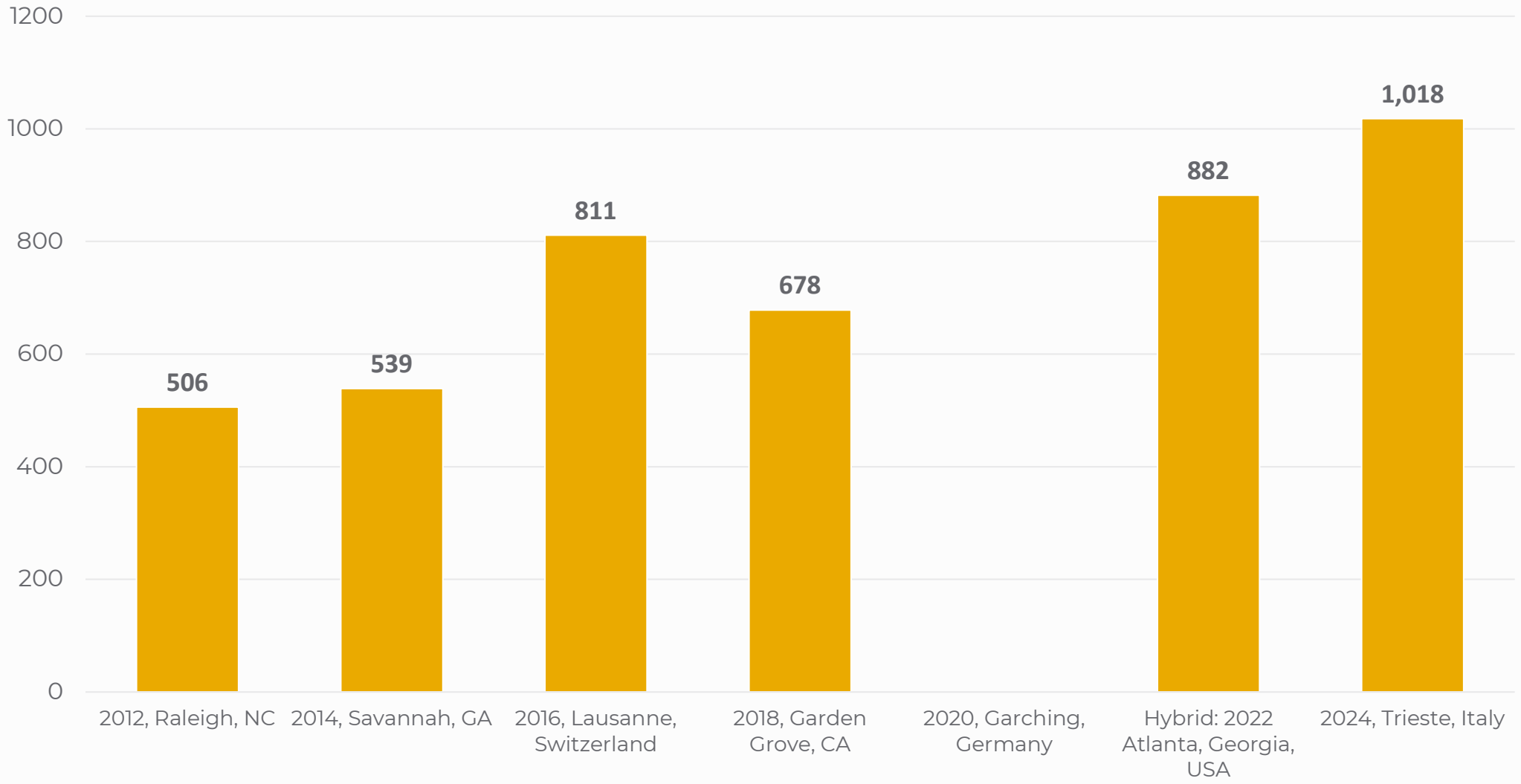
Class of 2024

Hans De Sterck

Class of 2025

Matthias Heinkenschloss
Lior Horesh
Steven Lee
Youssef Marzouk
Jonathan Mattingly
Gianluigi Rozza
Stefan Wild

SIAG/UQ Conference History



SIAG/UQ Conference 2026

Organizing Committee Co-Chairs

Robert Gramacy, Virginia Tech, U.S.
Robert Scheichl, Heidelberg University, Germany
Li Wang, University of Minnesota, U.S.

*

Organizing Committee

Maarten V. de Hoop, Rice University, U.S.
Mengyang Gu, University of California, Santa Barbara, U.S.
Dorit Hammerling, Colorado School of Mines, U.S.
John Jakeman, Sandia National Laboratories, U.S.
Annika Lang, Chalmers University of Technology, Sweden
Olga Mula, Eindhoven University of Technology, Netherlands
Houman Owhadi, California Institute of Technology, U.S.
Judith Rousseau, University of Oxford, United Kingdom
Elaine Spiller, Marquette University, U.S.
Panagiotis Tsilifis, GE Vernova, U.S.
Jonathan Weare, Courant Institute, New York University, U.S.
Karen Willcox, University of Texas at Austin, U.S.

SIAG/UQ Conference 2026

SIAG/UQ Early Career Prize

Surrogate Modeling for Stochastic Simulators: A Trajectory-based Spectral Approach

Monday, March 23rd, 11:45 AM - 12:30 PM

Room: Nicollet Ballroom – Main Level

Many computer models involve sources of uncertainty that cannot be meaningfully represented through uncertain input parameters alone. Examples include simulations driven by environmental variability, such as wind or earthquakes, as well as agent-based models whose randomness arises from internal decision processes. Such stochastic simulators produce inherently random responses, posing fundamental challenges to standard uncertainty quantification and surrogate modeling techniques.

While surrogate modeling for deterministic simulators is well established, corresponding methods for stochastic simulators are far less mature. In this talk, we first provide a high-level overview of existing approaches and the different modeling paradigms they employ. We then introduce the key ideas behind our recently developed trajectory-based spectral approach, which treats entire stochastic responses as the object of approximation rather than modeling output distributions pointwise in parameter space. Finally, we show how interactions between inputs and stochastic effects reveal key structure in the simulator's behavior and naturally govern the complexity of the surrogate model. Overall, this trajectory-based framework produces surrogates for stochastic simulators that capture both parametric dependence and intrinsic stochastic behavior in an interpretable manner.

Nora Lüthen

ETH Zurich, Switzerland

siam 2026 | Annual Meeting

July 6th – 10th, 2026
Huntington Convention Center of Cleveland
Cleveland, Ohio, U.S.

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. Co-located with the **SIAM Conferences on the Life Sciences**, **Mathematics of Planet Earth**, and **Applied Mathematics Education.**

Organizing Committee Co-Chairs

Daniela Calvetti, Case Western Reserve University, U.S.
Charles Wampler, University of Notre Dame, U.S.

Gene Golub SIAM Summer School (G2S3)

Fault-Tolerant Algorithms in Quantum Computing
July 27 – August 7, 2026
Duke University in Durham, North Carolina, U.S.
Participant application deadline has now passed.

The call for Letters of Intent proposing topics and organizers for the **2028 Gene Golub SIAM Summer School (G2S3)** will be issued in the fall of 2026. Letters of Intent in all areas of applied and computational mathematics will be considered. A small number of those who submitted Letters of Intent will be invited to submit full proposals.

Deadline for Letter of Intent: January 31, 2027

The host of the 2027 Gene Golub SIAM Summer School will be announced in the late spring of 2026.

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

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- Spouse may join as Associate Member
- *SIAM Unwrapped*
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- Nominate SIAM Fellows
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- Eligible for Group Insurance
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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 19 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!

Check out our newest journal, the *SIAM Journal on Life Sciences (SIALS)*!

Future conferences?

LOCATION

DATES

THEMES

2026 SIAG/UQ

Membership Report

(data as of December 31, 2025)

2026 SIAG/UQ BUSINESS MEETING

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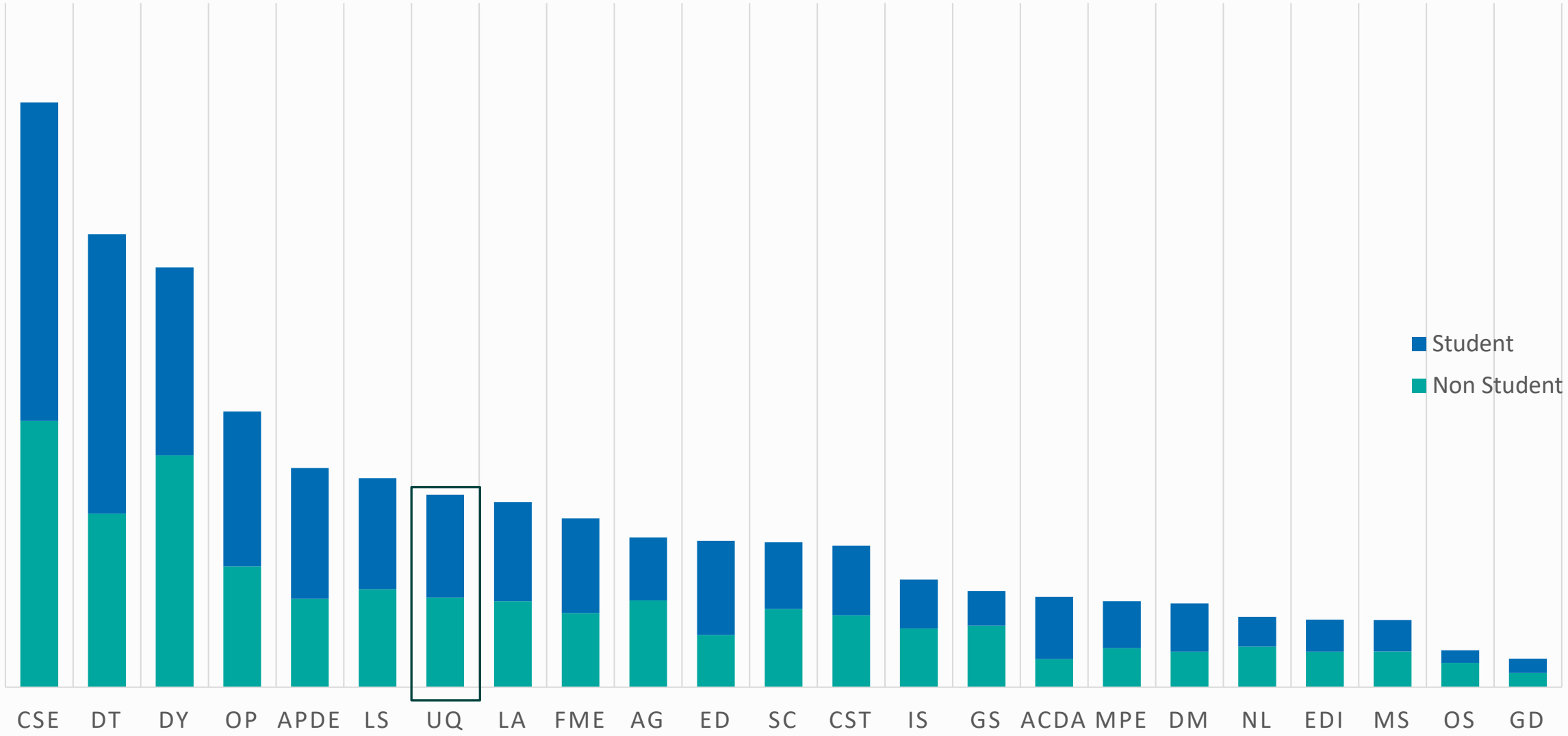
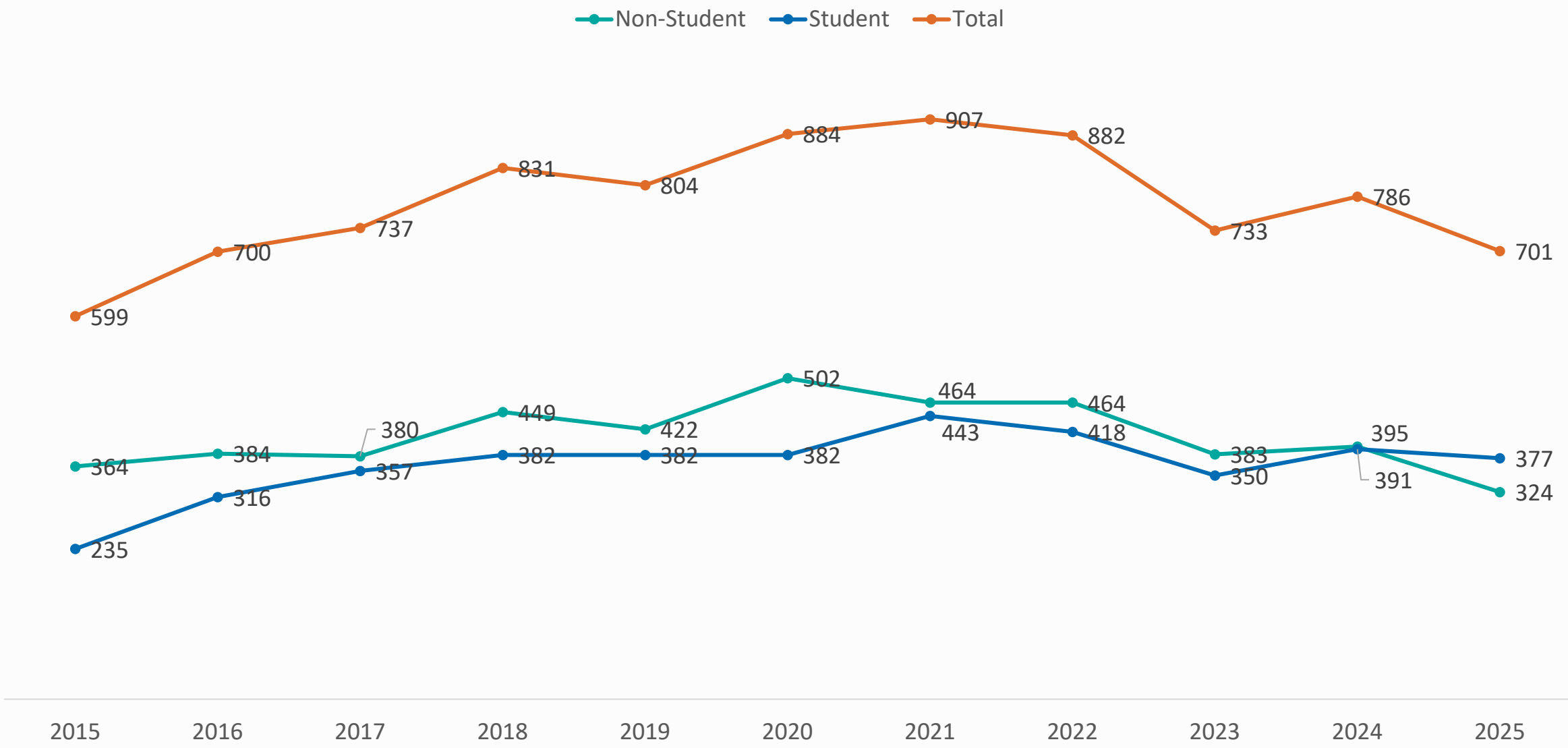
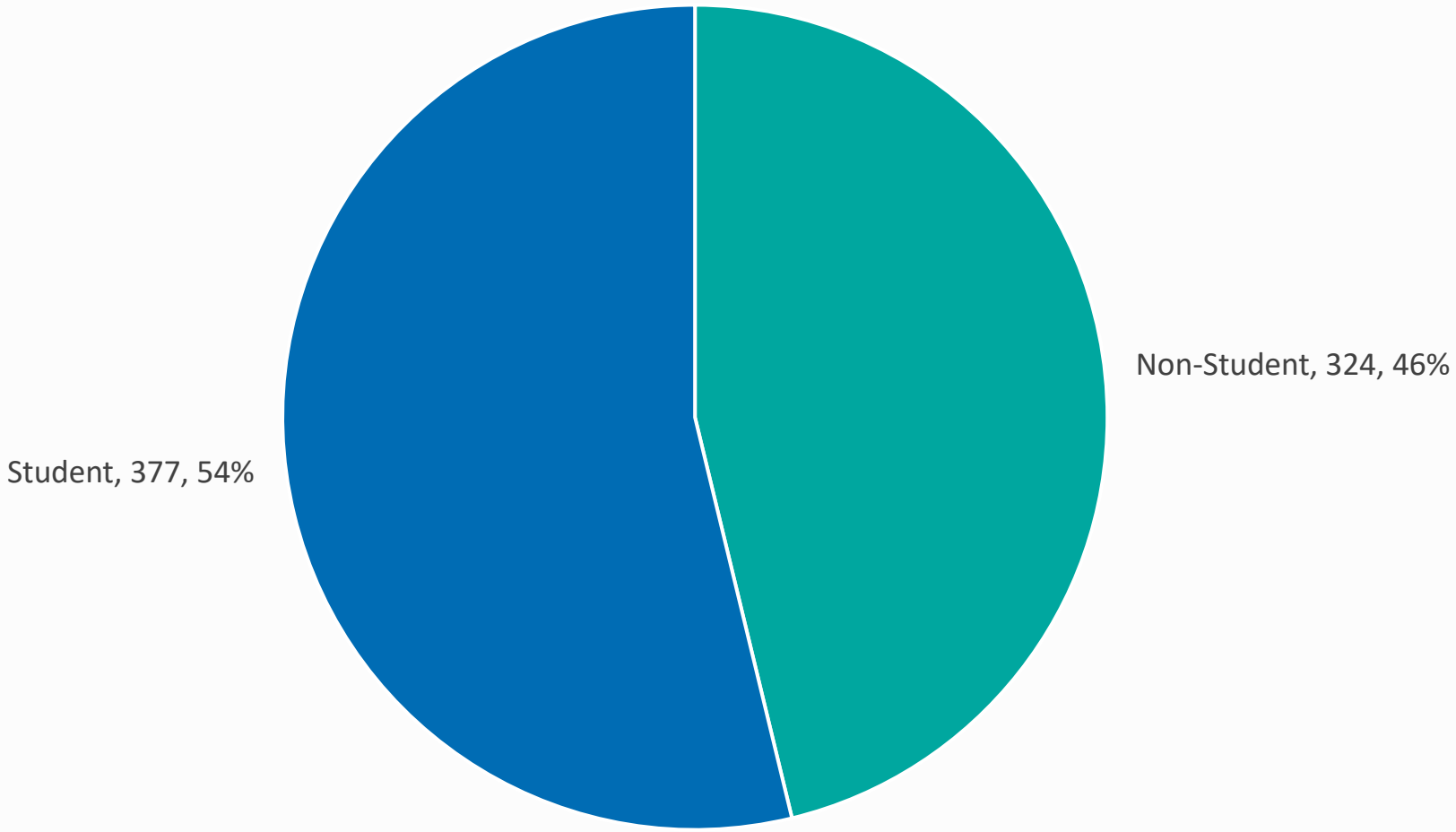
SIAG/UQ Overall Membership



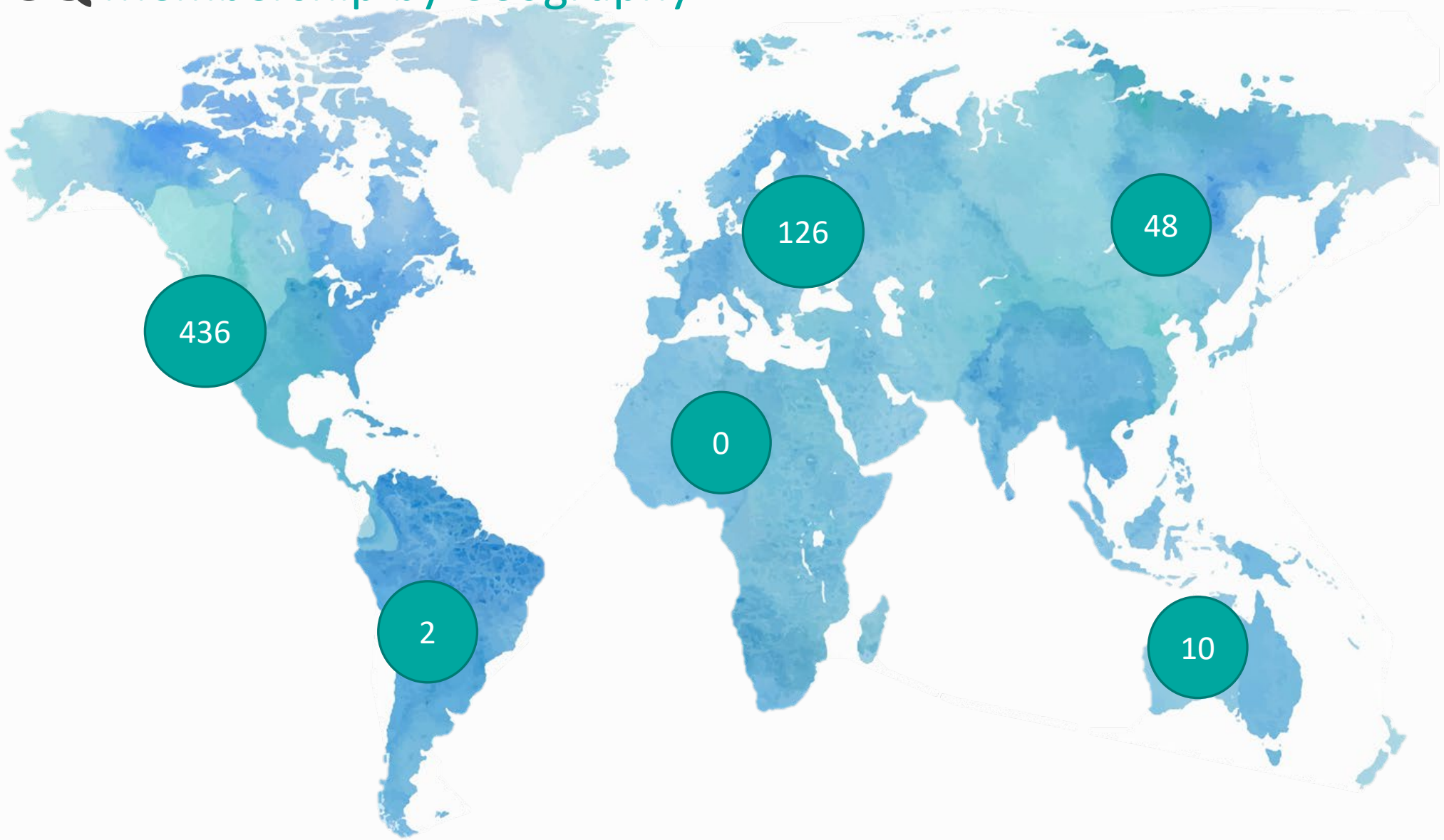
SIAG/UQ Membership Demographics



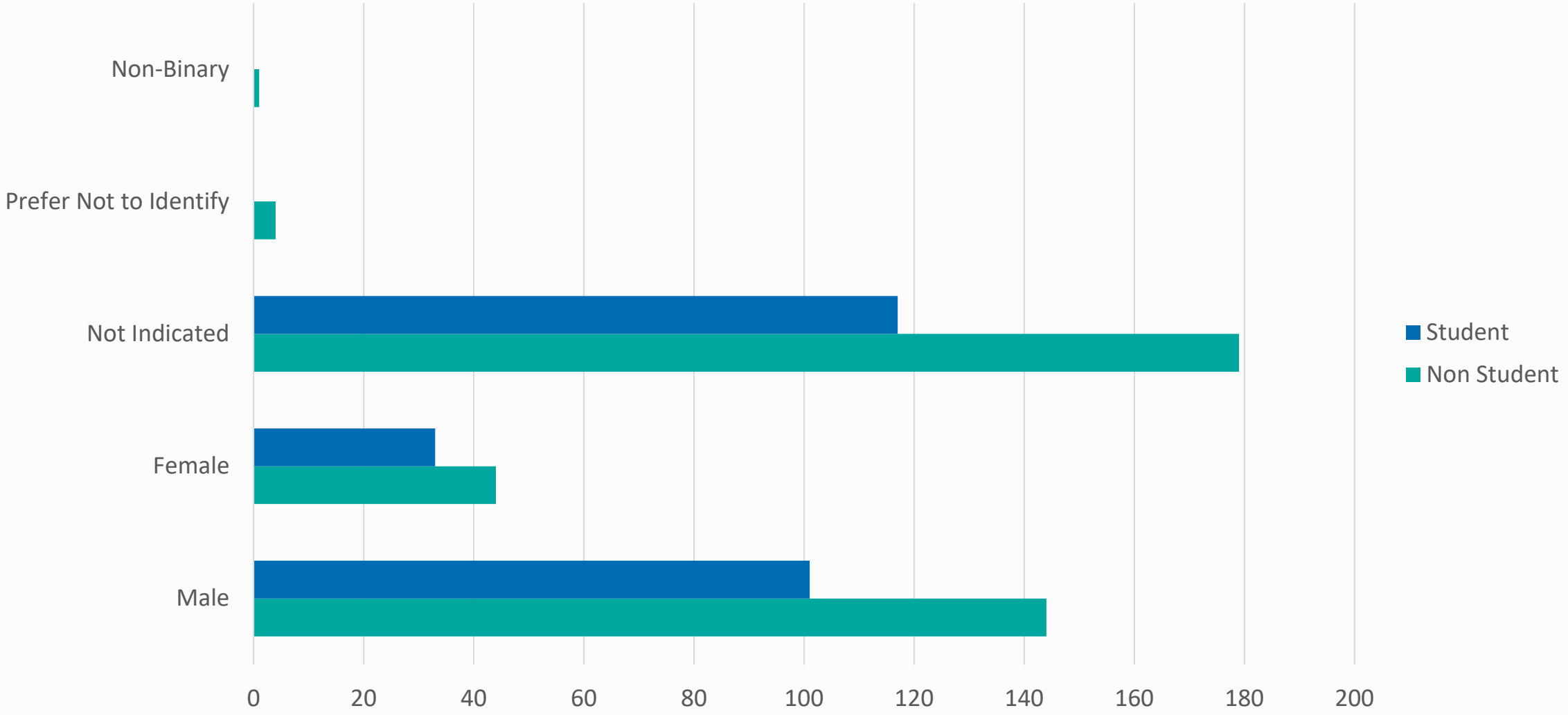
SIAG/UQ Membership Demographics



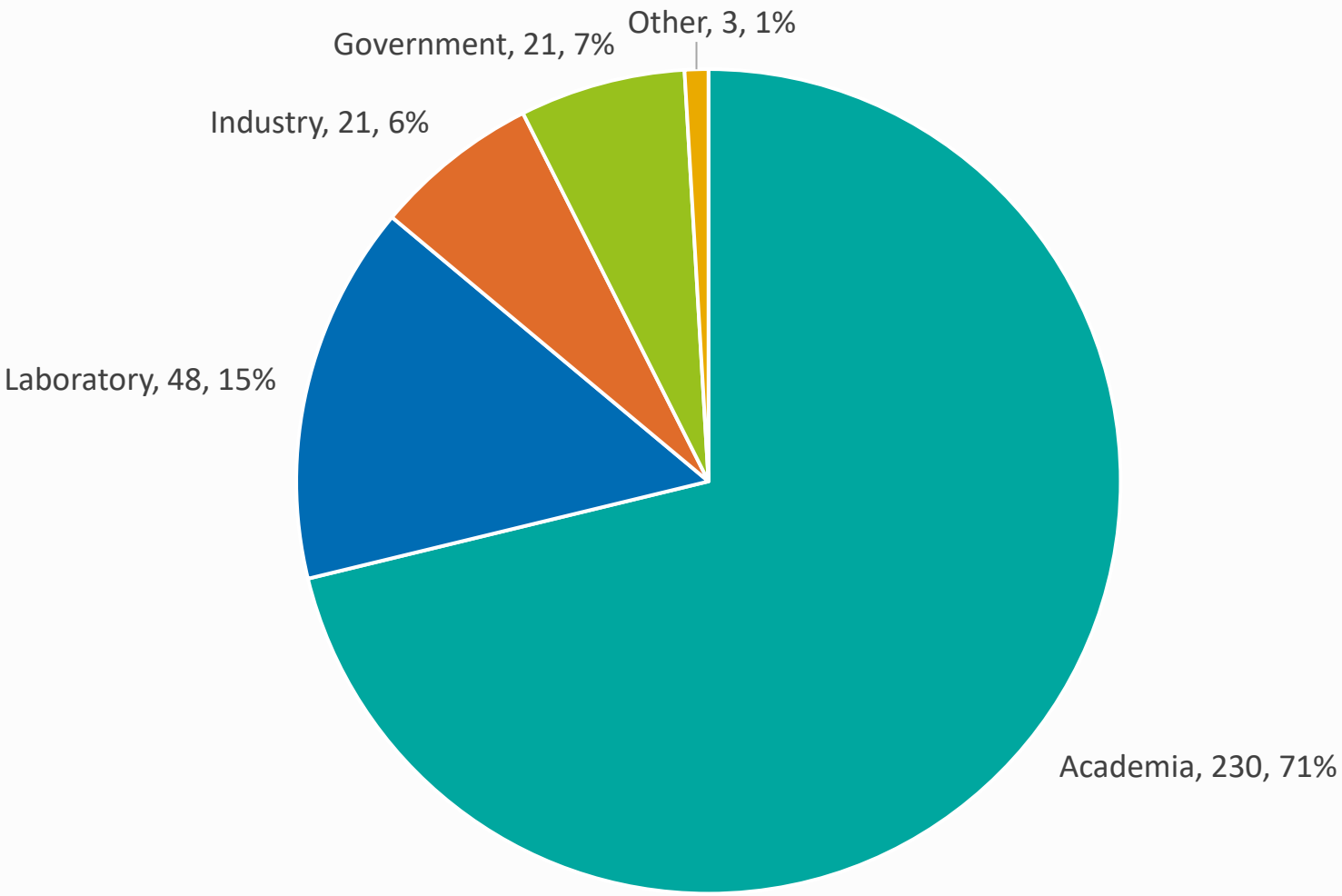
SIAG/UQ Membership by Geography



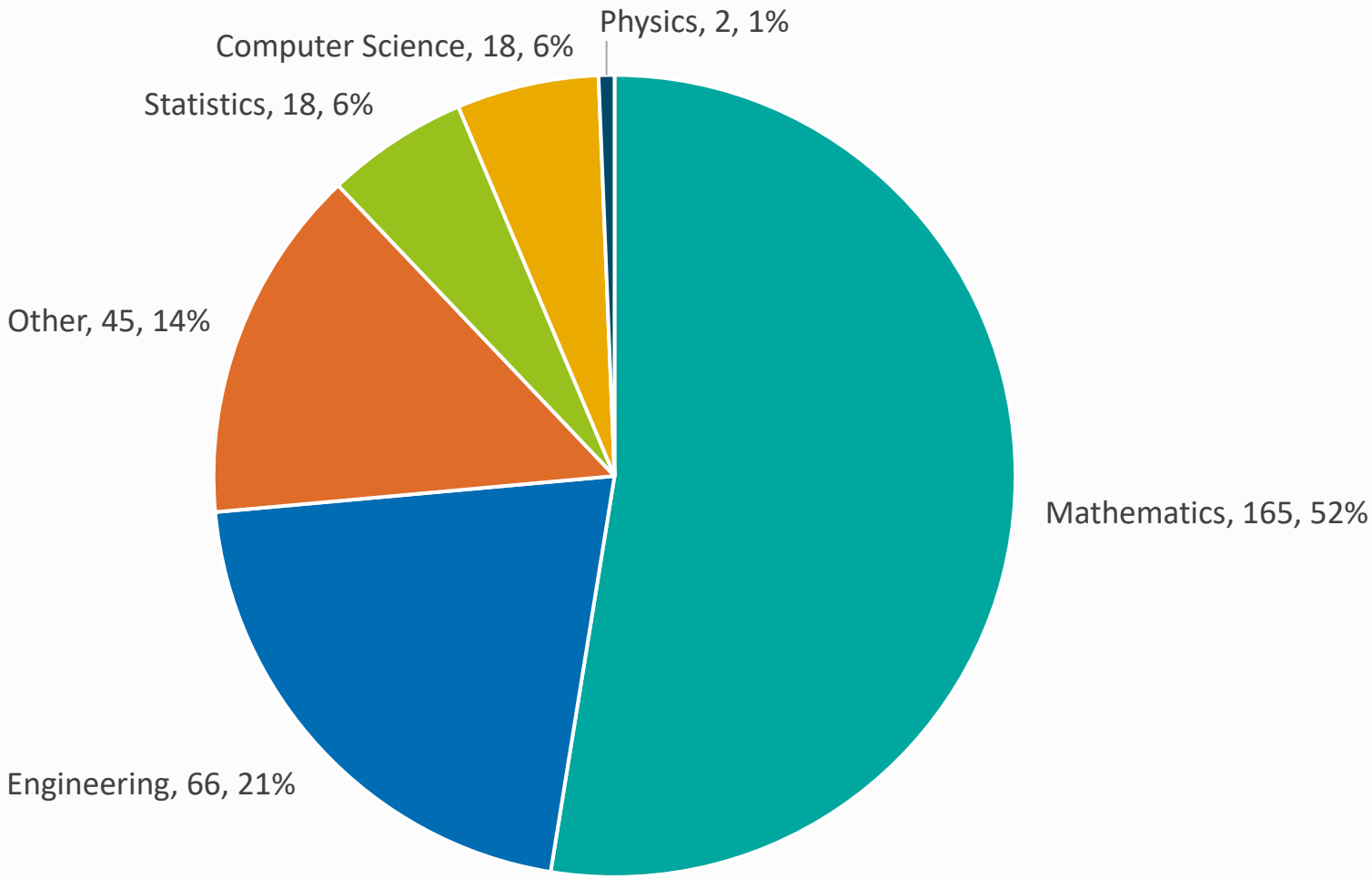
SIAG/UQ Membership by Gender



SIAG/UQ Membership by Employer Type



SIAG/UQ Membership by Department Type



2026 SIAG/UQ

Membership survey

2026 SIAG/UQ BUSINESS MEETING

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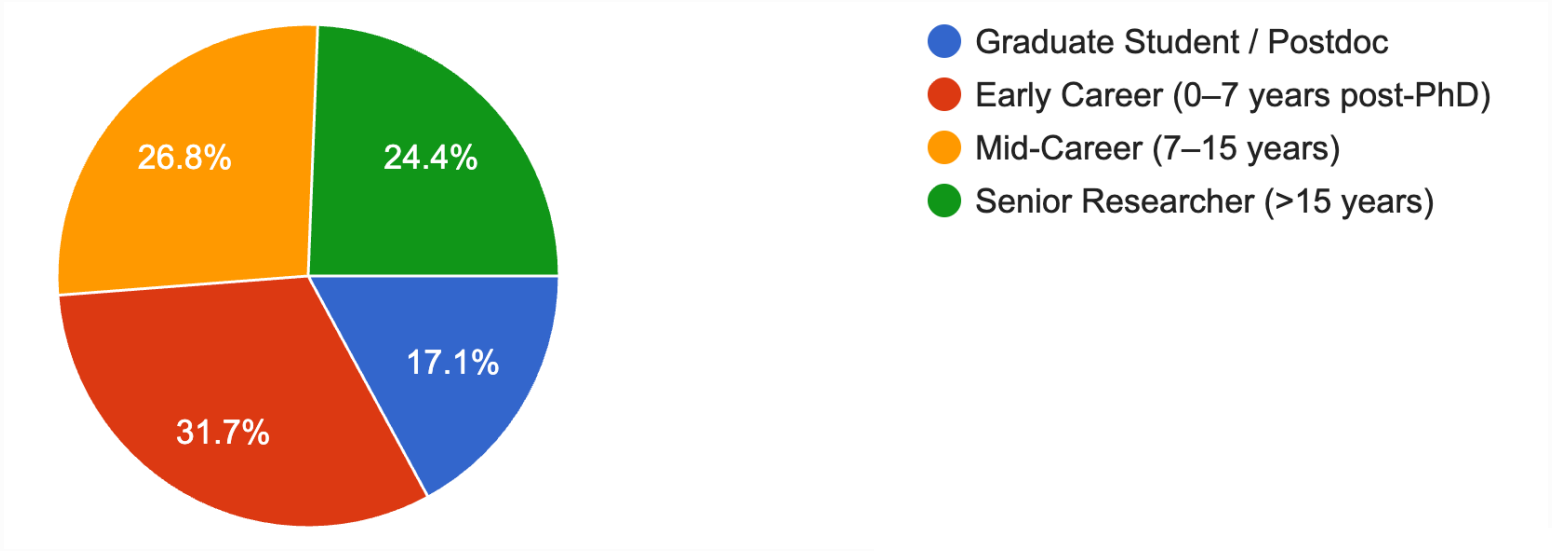
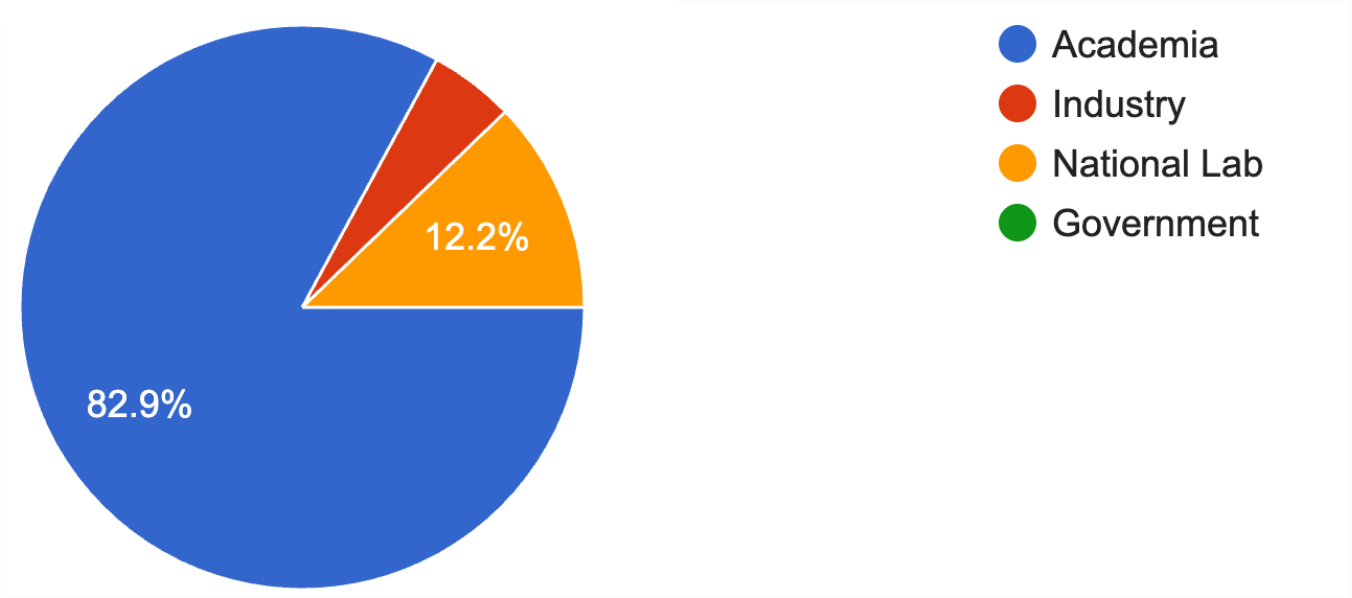
SIAG/UQ Survey Results

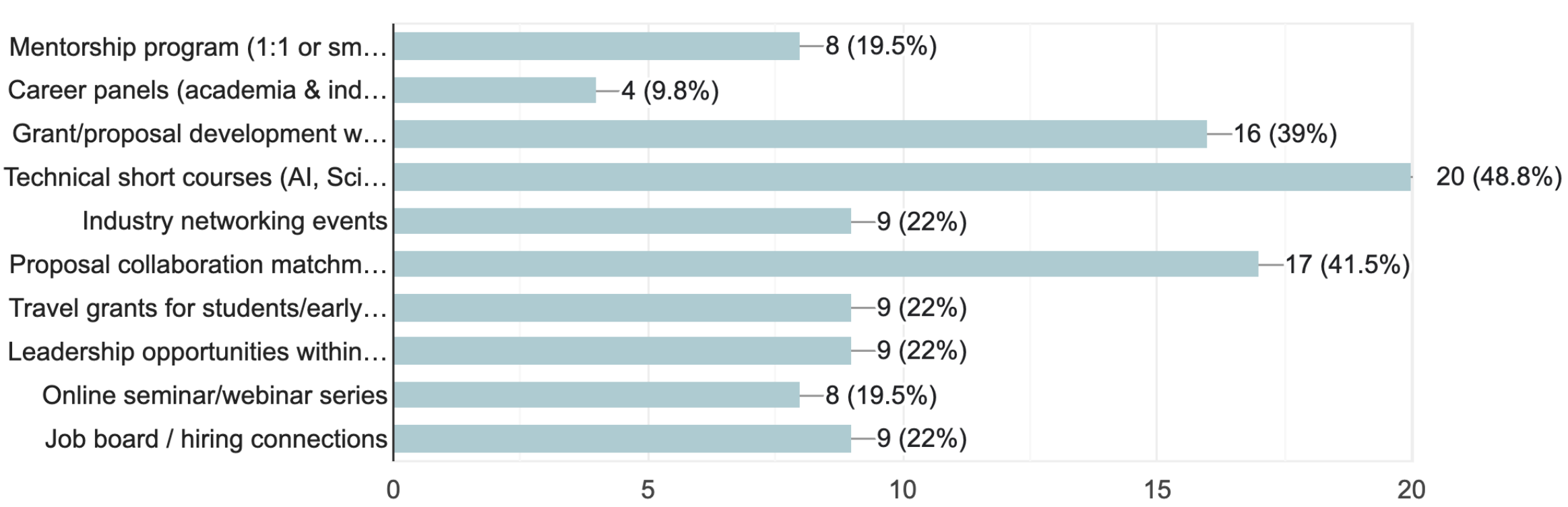




SIAG/UQ Survey Results

What three activities would help you most right now?

Top pick: technical short courses

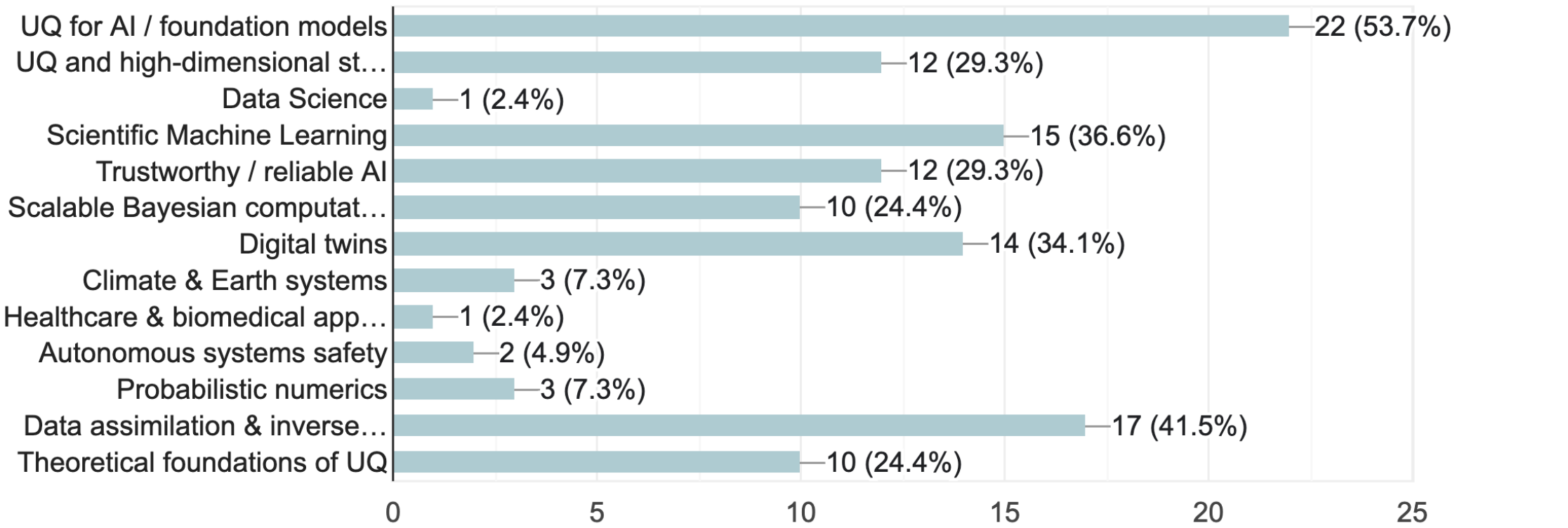


41 respondents

SIAG/UQ Survey Results

Top scientific priorities for UQ in the next 5 years

Top pick: technical short courses

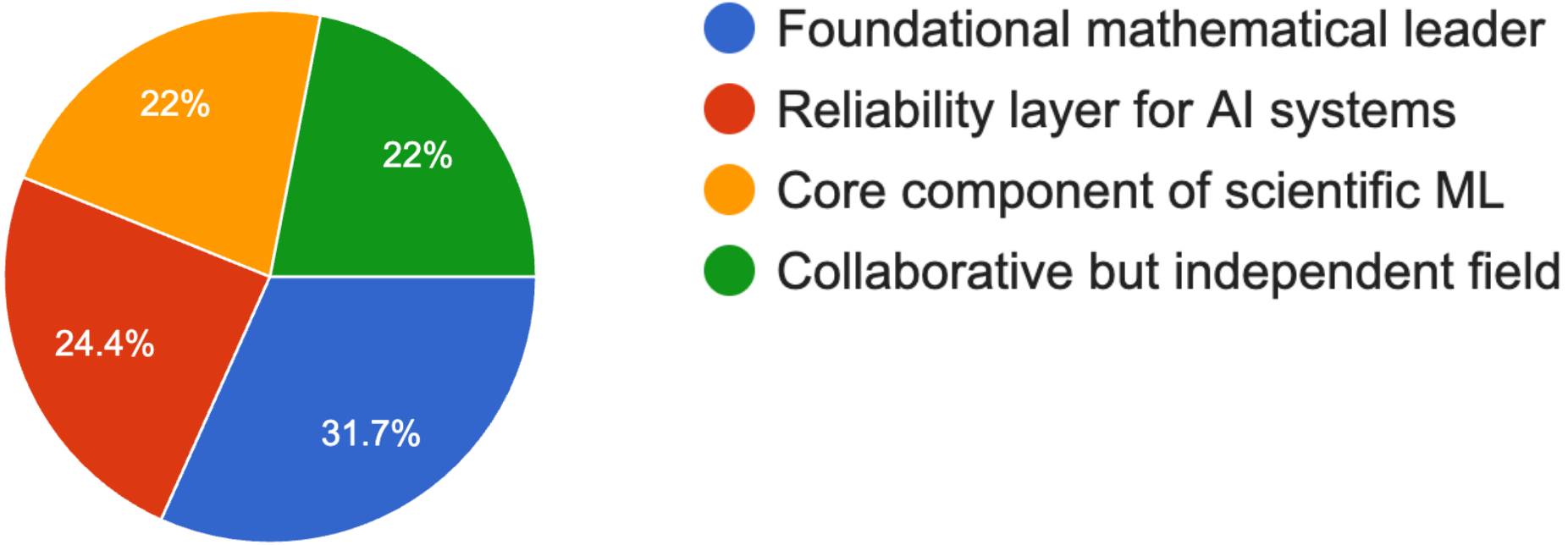


Pick up to 3

SIAG/UQ Survey Results

What is the most important way SIAG UQ can position itself relative to AI? (Choose one)

41 responses

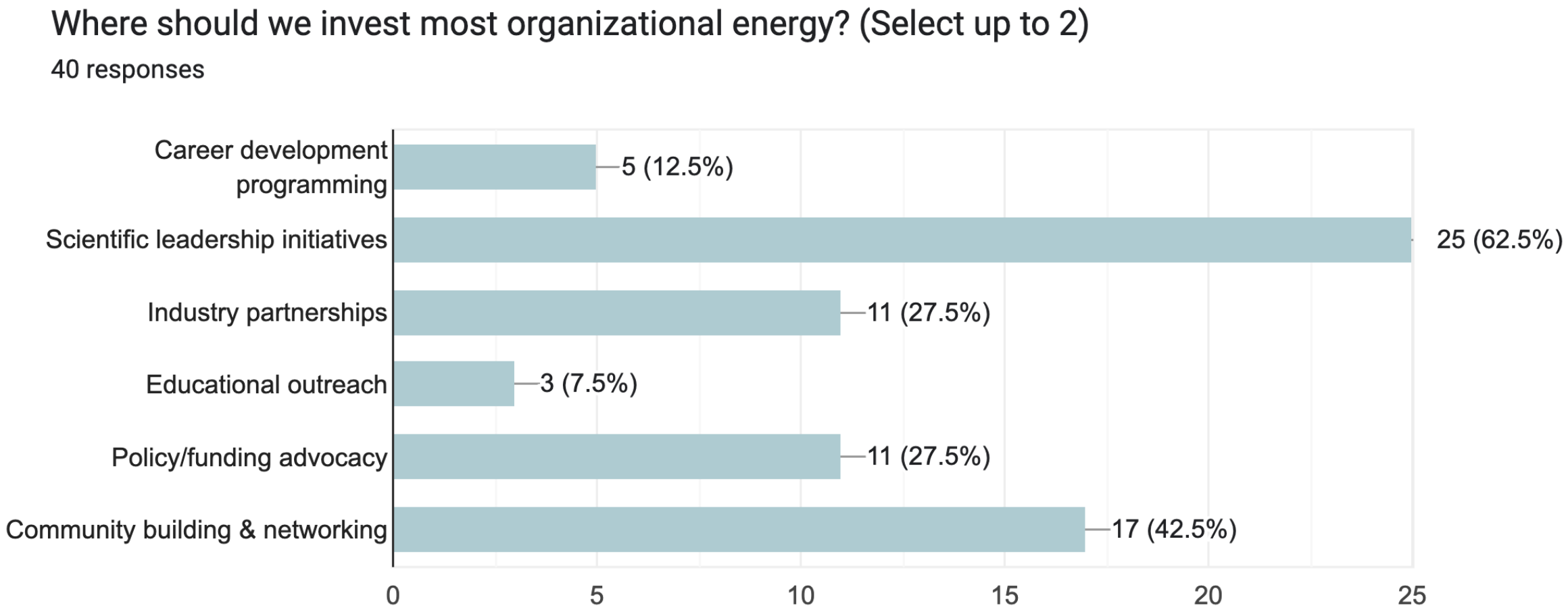


SIAG/UQ Survey Results

Proposals for SIAG UQ Initiatives over next 3-5 years

- Position UQ as essential piece of foundation models
- Benchmark suites
- White paper workshop laying out roadmap for UQ over next 10 years
- Ensuring broader presence in AI community inclusive conferences, industrial collaborations, state/federal government
- Innovation/startup events
- Mentoring early career researchers
- UQ education through books, interactive notebooks, tutorials

SIAG/UQ Survey Results



Summary of questions we asked

Other Business

SIAG/UQ Conference Budget Summary

Conference Budget
SIAM Conference on Uncertainty Quantification
March 22-25, 2026
Minneapolis, Minnesota

Expected Paid Attendance	630

Revenue	
Registration Income	$305,855
Sponsorship and Exhibitor Income	$14,202
Grant Income	$34,296

Expenses			
Printing	$900		
Organizing Committee	$4,225		
Invited Speakers	$11,850		
Food and Beverage	$97,540		
Equipment Rental	$56,850		
Room Rental	$13,628		
Advertising	$2,000		
Conference Labor (including benefits)	$23,420		
Other (supplies, staff travel, freight, misc.)	$19,650		
Other SIAM Services	$3,700		
Total Indirect Expenses	$93,505		
Administrative		*$19,636*	*21%*
Accounting/Distribution & Shipping		*$14,026*	*15%*
Information Systems		*$24,311*	*26%*
Customer Service		*$9,351*	*10%*
Marketing		*$14,961*	*16%*
Corporate Engagement		*$7,480*	*8%*
Office Space (Building)		*$3,740*	*4%*

Total Revenue	$354,353
Total Expenses	$327,268
Net Conference Revenue	$27,085
Estimated Support for Travel Awards:	$29,400
Support Provided by SIAM	$2,315

Contacts

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Vice Chair	Georg Stadler stadler@cims.nyu.edu
Program Director	Robert Scheichl r.scheichl@uni-heidelberg.de
Secretary	Teresa Portone tportone@sandia.gov