



# Annual Report 2023/24

July 9, 2024

SVEN LEYFFER

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SUZANNE L. WEEKES

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\* Appointed in  
January 2024

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**Carol Woodward**, Lawrence Livermore Nat'l Laboratory\*



**\*Newly Elected/Re-Elected**

# SIAM Conferences



## How do bats use sonar?

- Frequency modulation: M. E. Bates et al., 2008. "Jamming avoidance response of brown bats in target detection." *Journal of Experimental Biology* 211(1), p. 106-113.
- Decreasing or increasing vocalizations: C. Chiu, W. Xian, and C. F. Moss, 2008. *PNAS* 105(35), pp. 13116-13121, Lin Y., Abaid N., Mueller R., 2016. *The Journal of the Acoustical Society of America*, 140(6), 4318-4325.

# SIAM Activity Group Conferences

- **Discrete Algorithms (SODA/SOSA/ALENEX/APOCS23)** - January 2024 – Alexandria, VA
- **Uncertainty Quantification (UQ24)** – Feb/Mar 2024 – Trieste, Italy
- **Parallel Processing (PP24)** – March 2024 – Baltimore, MD
  - + **International Meshing Roundtable (IMR24)**
- **Data Mining (SDM24)** - April 2024 – Houston, TX
- **Linear Algebra (LA24)** – May 2024 – Paris, France
- **Materials Science (MS24)** – May 2024 – Pittsburgh, PA
- **Imaging Science (IS24)** – May 2024 – Atlanta, GA
- **Mathematics of Planet Earth (MPE24)/Life Sciences (LS24)** – June 2024 – Portland, OR
- **Nonlinear Waves & Coherent Structures (NWCS24)** – June 2024 – Baltimore, MD
- **Discrete Mathematics (DM24)** – July 2024 – Spokane, WA
- **Applied Math Education (ED24)** – July 2024 – Spokane, WA
- **Annual Meeting (AN24)** – July 2024 – Spokane, WA

# SIAM Section Meetings



- **Central States Section Annual Meeting – Oct 2023**
- **Colombia Section Annual Meeting – Oct 2023**
- **Great Lakes Section Annual Meeting – Oct 2023**
- **New York-New Jersey-Pennsylvania Section Annual Meeting\* – Oct 2023**
- **Pacific Northwest Section Annual Meeting – Oct 2023**
- **Texas-Louisiana Section Annual Meeting – Oct 2023**
- **Mexico Section Annual Meeting – Nov 2023**
- **Bulgaria Section Annual Meeting – Dec 2023**
- **United Kingdom and Republic of Ireland Section Annual Meeting – March 2024**

➤ **SIAM Conferences received generous financial support from**

- the **US National Science Foundation** DMS 1757085, DMS 2244415, and DMS 2233032
  - *Workshop Celebrating Diversity* held at 2024 SIAM Annual Meeting
  - Travel support for invited presenters, students, early career researchers
  - Travel support for 100 U.S.-based students and researchers to attend **ICIAM 2023**
- the **US Department of Energy** DE-SC0006811
- **Conference sponsors!**



➤ **Student Travel Awards to SIAM Conferences**

- 2023: **282**                      2024 YTD: **254**

*with support from the **SIAM Student Travel Fund**.*

*Thank you to donors for their gifts and to SIAM book authors for their generosity!*

➤ **NSF Early Career Travel Awards to SIAM Conferences**

- 2023: **56**                      2024 YTD: **31**

➤ **Childcare Grants**

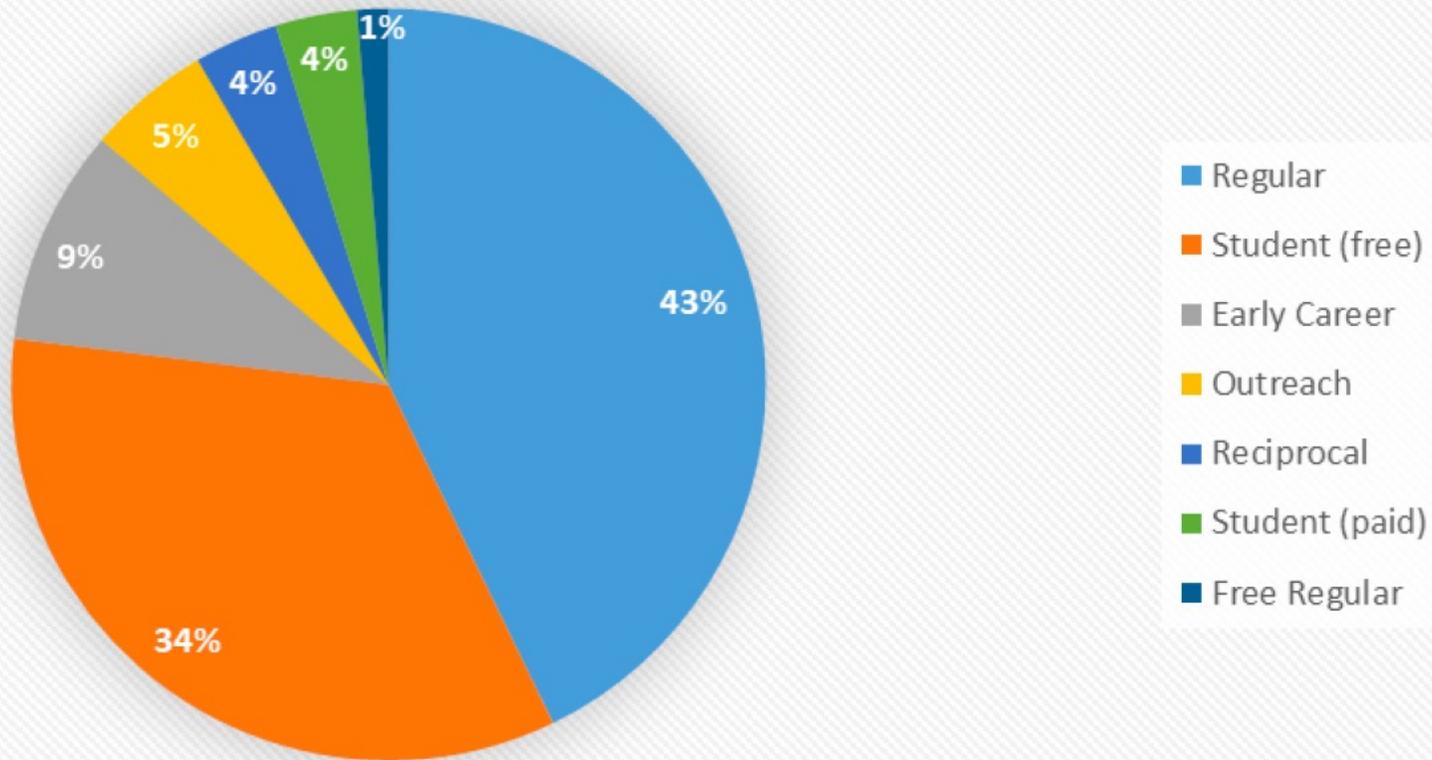


# Membership

[membership@siam.org](mailto:membership@siam.org)

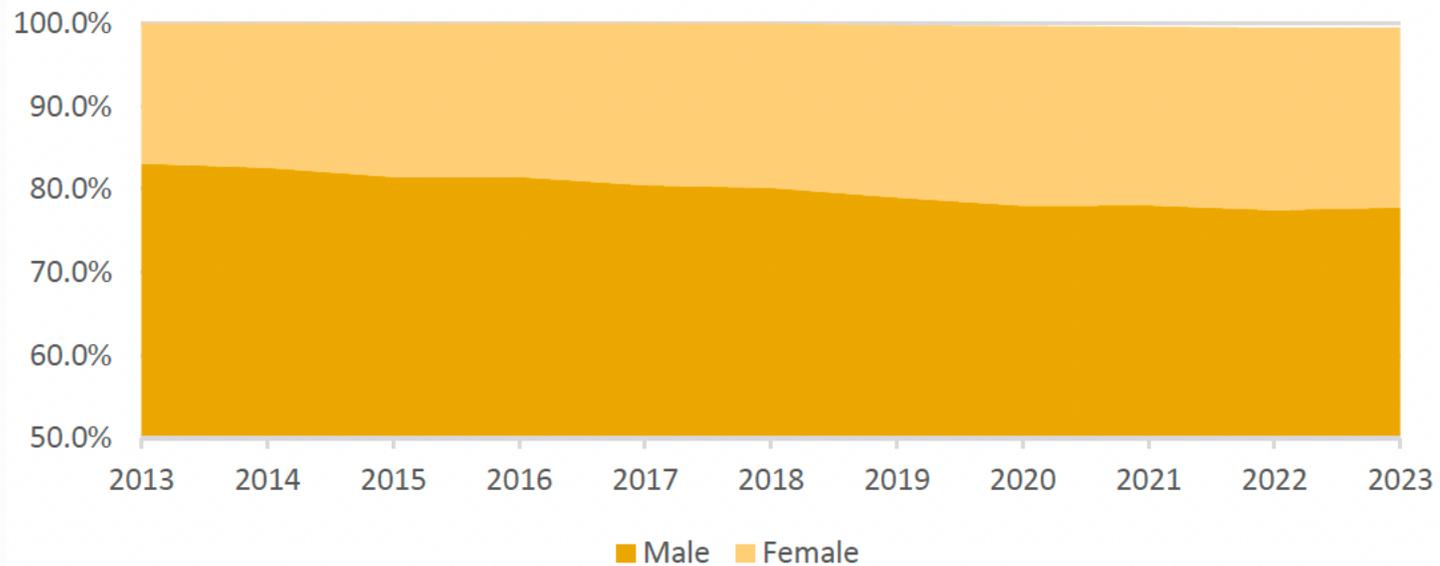


## 2023 Membership by Type

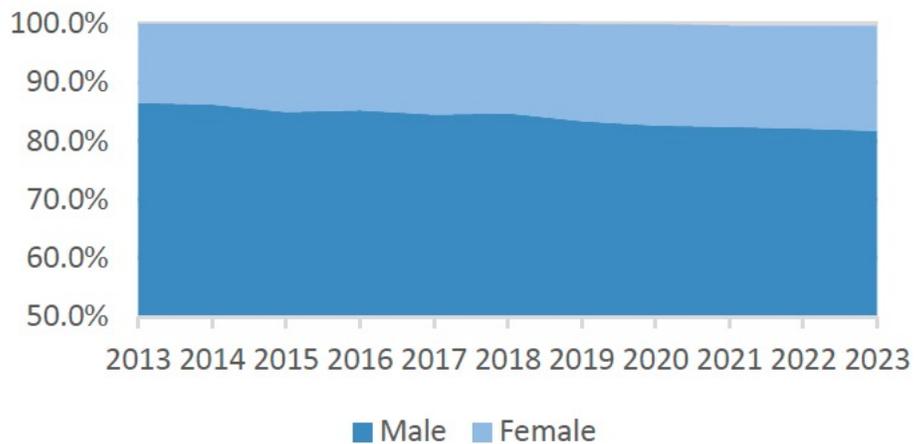


# SIAM Membership

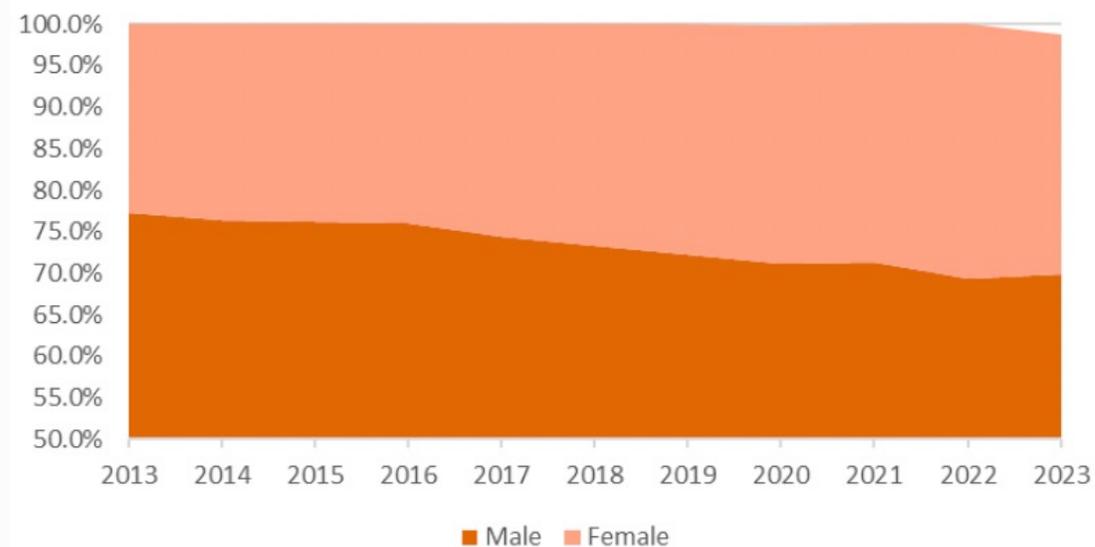
## Total Known Gender Breakdown



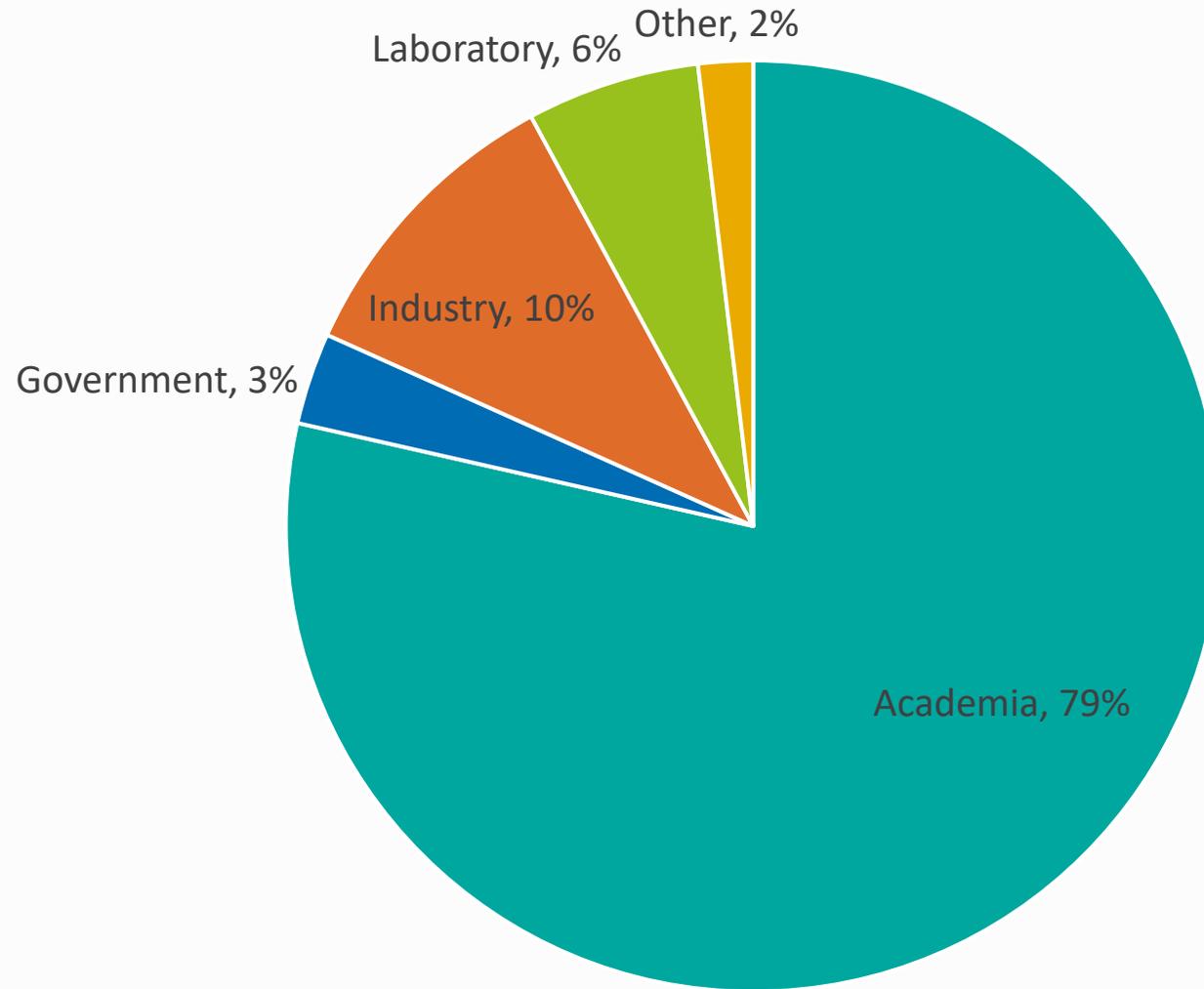
## Known Nonstudent Gender Breakdown



## Known Student Gender Breakdown



# Employer Type (Excluding Students)



# Thank you to the Section Officers and volunteers!

**AR-SIAM**

Argentina  
Section of SIAM



**BGSIAM**

Bulgaria Section  
of SIAM



**COSIAM**

Colombia  
Section of SIAM



**EASIAM**

East Asia  
Section of SIAM



**SIAM  
UKIE**

United Kingdom  
and Republic of  
Ireland Section  
of SIAM



**SIAM-  
CSS**

SIAM Central  
States Section



**GL-  
SIAM**

Great Lakes  
Section of SIAM



**MEX-  
SIAM**

Mexico Section  
of SIAM



**NCC-  
SIAM**

Northern and  
Central  
California

**SIAM-  
NNP**

SIAM NY-NJ-PA  
Section



**SIAM-  
NSS**

SIAM Northern  
States Section



**SIAM-  
PNW**

SIAM Pacific  
Northwest  
Section



**SIAM-  
SEAS**

SIAM  
Southeastern  
Atlantic Section



**SIAM-  
SOCAL**

SIAM Southern  
California  
Section



**SIAM-  
TXLA**

SIAM Texas-  
Louisiana  
Section



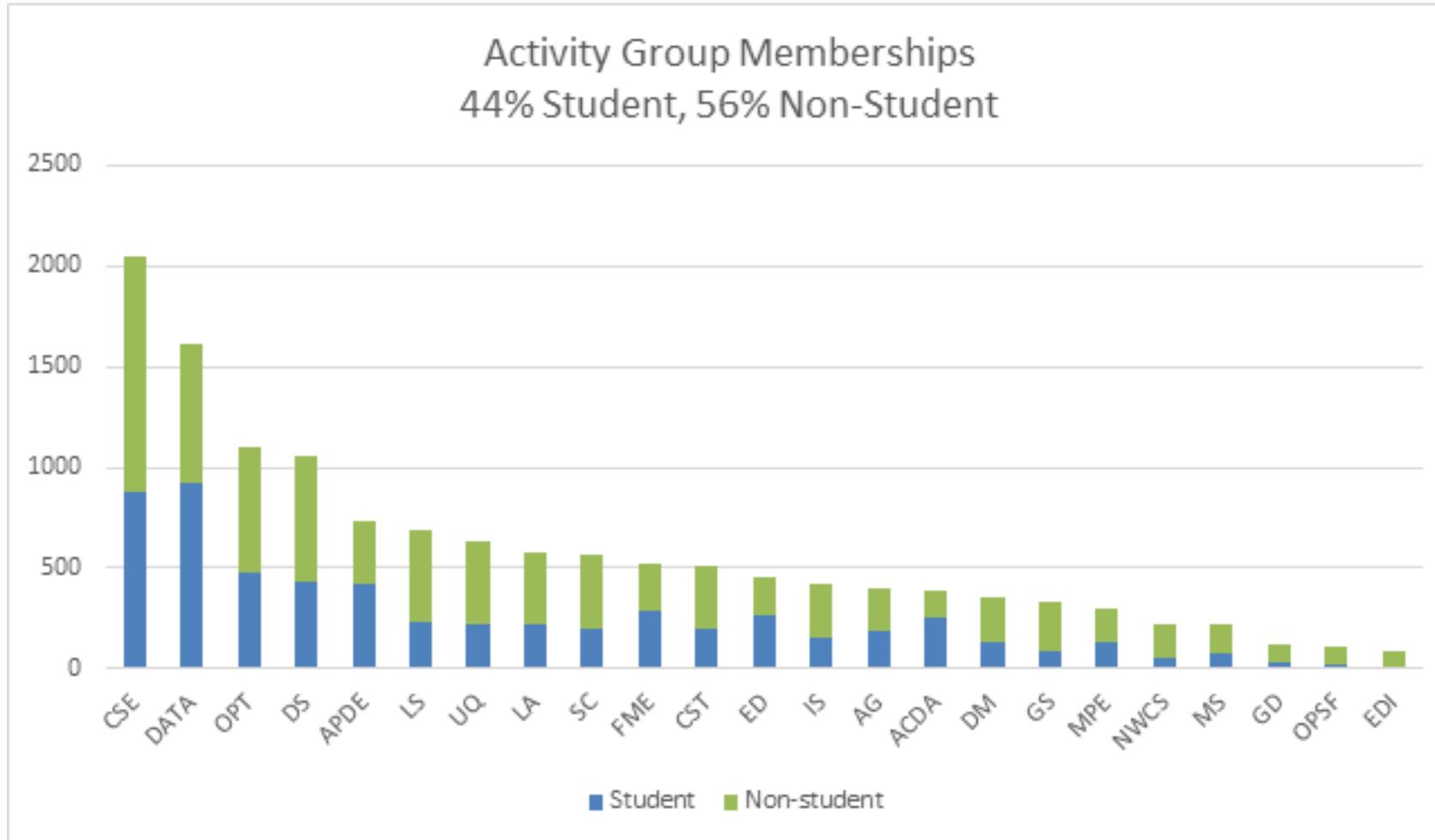
**SIAM DC-  
Balt**

SIAM  
Washington,  
D.C.-Baltimore  
Section



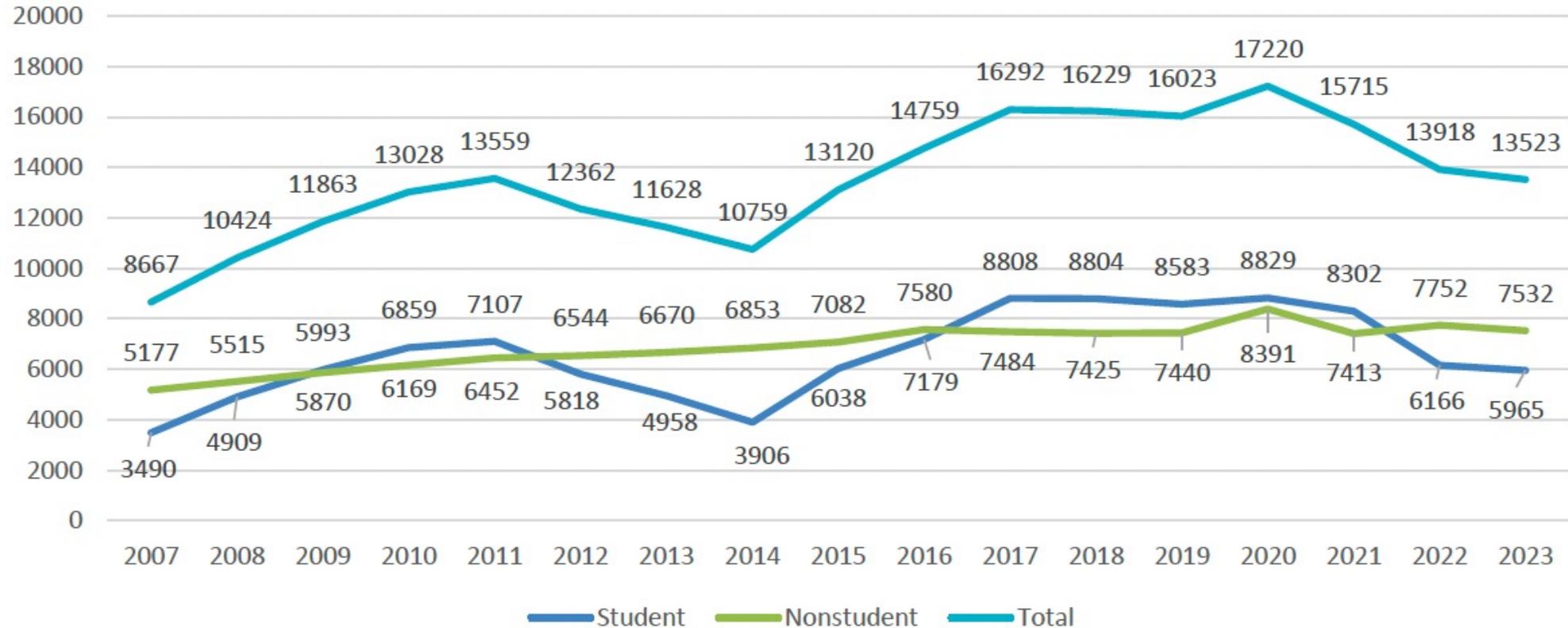
# SIAM ACTIVITY GROUPS

Thank you to the SIAG Officers and volunteers!

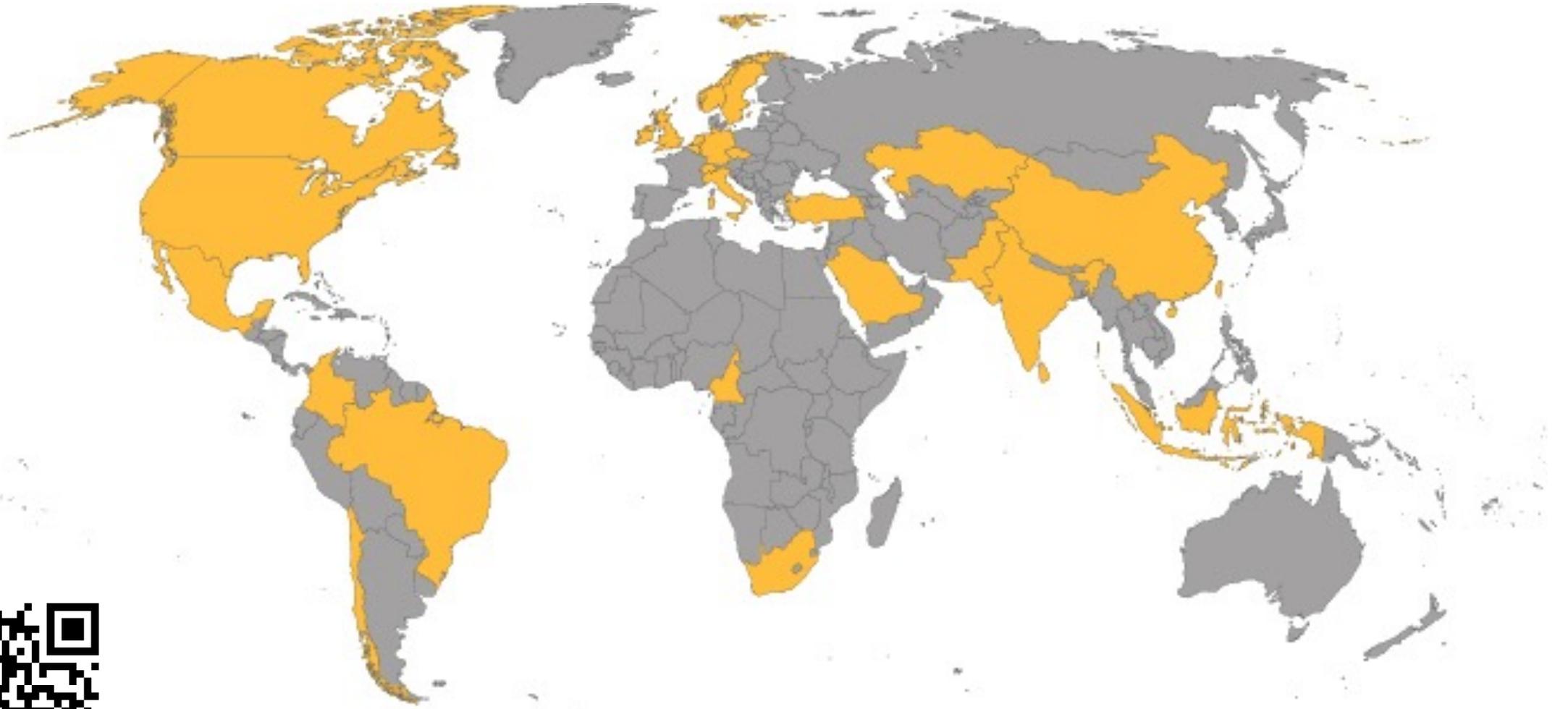


# SIAM ACTIVITY GROUPS

## SIAG Membership History



# 222 SIAM Student Chapters in 29 Countries

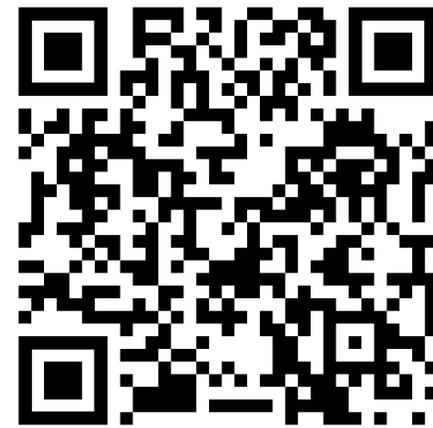


*Nominate two SIAM Student members for **free membership!***  
<https://www.siam.org/forms/nominate-a-student>



# SIAM VOLUNTEERS

Thank you to all SIAM volunteers!



## *SIAM Volunteers*

- SIAM owes you a big THANK YOU!
- 800+ editors serving SIAM Journals & Books
- 25 committees with 100+ members running:  
prizes, membership, conferences, JEDIs, oversight, pubs
- Please volunteer / nominate member  
<https://www.siam.org/forms/leadership-suggestions>
- Vote in our election this fall!  
... SIAM membership-driven professional society



# Publications

Thank you to the 800+ SIAM journals editorial board members and to our reviewers!

## 2023 SIAM Editors-in-Chief

JUQ – Peter Challenor, Sebastian Reich

MMS – Liliana Borcea

SIADS – Evelyn Sander

SIAGA – Jan Draisma

SIAP – Qiang Du

SICOMP – Robert Krauthgamer

SICON – George Yin

SIDMA – [Stanislav Zivny](#)

SIFIN – Mete Soner

SIIMS – Gabriele Steidl

SIMA – Robert Lipton

SIMAX – Michele Benzi

SIMODS – Tamara Kolda

SINUM – Mark Ainsworth

SIOPT – Jong-Shi Pang

SIREV – [Carola-Bibiane Schoenlieb](#)

SISC – Hans De Sterck

SIURO – Joanna Wares

Thank you to the 800+ SIAM journals editorial board members and to our reviewers!

## 2024 SIAM Editors-in-Chief

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SINUM – Mark Ainsworth

SIOPT – Jong-Shi Pang

SIREV – Carola-Bibiane Schoenlieb

SISC – Hans De Sterck

SIURO – Joanna Wares



**Journals** ▶

**Books** ▶

**Proceedings** ▶

**LATEST ARTICLES**

**LATEST BOOKS**

**LATEST PROCEEDINGS**

### Two Variable Logic with Ultimately Periodic Counting

Michael Benedikt , Egor V. Kostylev, and Tony Tan

SIAM Journal on Computing

### Gradient Descent in the Absence of Global Lipschitz Continuity of the Gradients

Vivak Patel  and Albert S. Berahas

SIAM Journal on Mathematics of Data Science

### Partial Hedging in Rough Volatility Models

Edouard Motte and Donatien Hainaut

SIAM Journal on Financial Mathematics

### Globally Analytical Solutions of the Compressible Oldroyd-B Model Without Retardation

Xinghong Pan 

SIAM Journal on Mathematical Analysis

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**Tiered pricing for institutional journal subscriptions launching in 2025.**

**The new model will be phased in over three years (2025-2027).**

Tiered pricing achieves a **fair distribution of costs** among large research institutions, small undergraduate institutions, and those in between. Tiered pricing is an evenhanded model as it best aligns pricing with usage and need, using institution size and research output.

**SIAM will be better able to sustain our independence.** We ask for your support so that we can continue to remain independent and offer pricing that remains favorable as compared to commercial publishers.

SIAM authors must adhere to the following rules on the use of artificial intelligence and large language models (LLMs), such as ChatGPT –

1. Listed authors must be human beings, rather than AI tools, as authors must be able to be accountable for the work, disclose conflicts of interest, as well as hold and assign copyright.
2. Every co-author assumes full responsibility for the integrity, accuracy, originality, and copyright of any submitted content. This includes the abstracts/summaries of the work, discussions of related work, theorems and proofs, algorithm statements, computational implementations, and analysis/discussion/presentation of numerical experiments.
3. Authors are permitted to use AI tools to edit or polish the authors' written text for spelling, grammar, or general style, with a simple acknowledgement in the Acknowledgements section of the work.
4. Any other use of artificial intelligence, LLMs, or similar technologies must be fully documented in the Acknowledgements section of the submitted work, with
  - a. As many details of the specific model/tool and version used as available, e.g., Tool = GPT-4, Date used: Sept 1, 2023
  - b. the exact method used, e.g. The following prompt was entered into GPT-4...
  - c. the specific content changed or generated by AI, including text, citations, images, figures, videos, or similar, e.g. The following text was entirely generated by GPT-4 and included in the article...
  - d. where possible, the code or data that a reader needs to reproduce the results
5. The SIAM journal or book editor(s) has final decision on whether the use of the AI tool is appropriate or permitted
6. Egregious misrepresentations, including those due to use of AI in the writing or analysis, will lead to an investigation and may have consequences including rejection of the submission, limits on future submissions to SIAM publications, notification of the authors' institutions, and addendum to or retraction of an already published article.

## SIAM Referees

SIAM referees are not permitted to upload papers under review to ChatGPT or similar LLM models as this compromises the confidentiality of material provided by the author during the peer review process.

# SIAM Books Program

SIAM welcomes potential authors and suggestions for new book topics!

Contact Elizabeth Greenspan: [greenspan@siam.org](mailto:greenspan@siam.org)

## Published in 2023:

- Golubitsky/Stewart *Dynamics and Bifurcation in Networks*
- Meyer *Matrix Analysis and Applied Linear Algebra, 2e*
- Meyer *Matrix Analysis and Applied Linear Algebra, 2e: Study and Solutions Guide*
- Haddad et al. *Network Information Systems: A Dynamical Systems Approach*
- Calogero *A First Course in Options Pricing Theory*
- Wilkinson *Rounding Errors in Algebraic Processes*
- Nie *Moment and Polynomial Optimization*
- Beck *Introduction to Nonlinear Optimization, 2e*
- Serov *Classical Analysis of Real-Valued Functions*
- Helfgott *Calculus for the Natural Sciences*
- Demkowicz *Moment and Polynomial Optimization*
- Calkin et al *Computational Discovery on Jupyter*
- Pinar/Akkaya *Problems and Solutions for Integer and Combinatorial Optimization*
- Bayer, et al. *Rough Volatility*
- Bauschke *An Introduction to Convexity, Optimization, and Algorithms*

# SIAM Books Program

**SIAM welcomes potential authors and suggestions for new topics!**

Contact Elizabeth Greenspan: [greenspan@siam.org](mailto:greenspan@siam.org)

## **Published in 2024 thus far:**

- Estep et al., A Ramble Through Probability
- Meurant / Tichy, Error Norm Estimation in the Conjugate Gradient Algorithm
- Bohn et al., Algorithmic Mathematics in Machine Learning
- Schellhorn/Kong, Machine Learning for Asset Management and Pricing

## ***New Mathematical Neuroscience book series***

New SIAM book series on mathematical neuroscience headed by editors-in-chief Daniele Avitabile, Mathieu Descroches, and Serafim Rodrigues. The series will publish tutorials, monographs, and textbooks that address mathematically grounded work on neural models at all scales.

# An Introduction to Quantum Computing Applied Mathematics

By David Hyde and Alex Pothen

Over the last decade, quantum computing has steadily become a global research priority. In 2018, the U.S. federal government created the \$1.2-billion **National Quantum Initiative Act** to spur quantum research and development. And in 2023, the U.S. **National Institute of Standards and Technology** identified quantum information technologies as a **critical and emerging technology** for prioritization (alongside domains like artificial intelligence and machine learning, clean energy generation, and semiconductors). The current emphasis on quantum computing (see Figure 1) has inspired multiple new funding opportunities in science, technology, engineering, and mathematics. It is important to recognize the deep connections between quantum computing and other fields.



# Optimization in Machine Learning and Data Science

By Stephen J. Wright



Figure 1. The ImageNet dataset contains more than a million photos of one thousand objects. Figure courtesy of the ImageNet database at Princeton University and Stanford University.

1. This quantum computer at Lawrence Berkeley National Laboratory is exploring quantum's potential to enable groundbreaking computational power. Figure courtesy of the University of California, Lawrence Berkeley National Laboratory.

# A Practical Introduction to Quantum Computing

By Casey Dowdle and James Whitfield

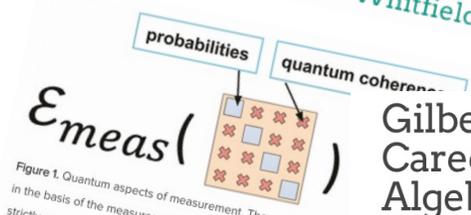


Figure 1. Quantum aspects of measurement. The quantum channel is in the basis of the measurement. From there, the realization of an outcome is strictly within the domain of ordinary probability theory. Figure courtesy of Casey Dowdle and James Whitfield.

# Gilbert Strang Reflects on His Rich Academic Career and Lifelong Friendship with Linear Algebra and SIAM

By Lina Sorg

Longtime SIAM member Gilbert (Gil) Strang recently retired from his position as a professor of mathematics at the Massachusetts Institute of Technology (MIT), delivering his **final lecture** to a standing ovation on May 15, 2023. Strang—who spent a collective 66 years at MIT as a student, instructor, and faculty member—is especially well-known within the applied mathematics community for his popular undergraduate linear algebra course; since 2001, he has **publicly hosted videos of each lecture** on MIT's **OpenCourseWare platform**. His lectures have been viewed more than 20 million times and are renowned among mathematicians and non-mathematicians alike for their engaging and clear delivery.

In addition to his robust career in academia, Strang has written 20 books — including six editions of the famed *Introduction to Linear Algebra*. Since 1986, he has self-published all of these texts through **Wellesley-Cambridge Press**. Strang has also remained an active member of SIAM over the years. He served as Vice President for Education from 1991 to 1996, was SIAM President in 1999 and 2000, and chaired the **SIAM Committee on Science Policy** from 2001 to 2002. Strang maintains a strong connection to SIAM's Publications Department and has served as an editor for the *SIAM Journal on Numerical Analysis*, *SIAM Journal on Matrix Analysis and Applications*, and *SIAM Review*; much of his published research



In May 2023, Gilbert (Gil) Strang retired from his position as a professor of mathematics at the Massachusetts Institute of Technology, where he spent a collective 66 years as both an undergraduate student and then a long-term faculty member. Photo courtesy of Gil Strang.

# SIAM NEWS

<https://sinews.siam.org>

Suggestions for articles?  
 Interested in writing for **SIAM News**?  
 Email [sinews@siam.org](mailto:sinews@siam.org)

2024 SIAM BUSINESS MEETING



# Activities & Programs

# SIAM Task Force on the Future of Computational Science



Advances in AI, powerful new computing platforms, and an increasingly complex landscape for future computing hardware represent both new opportunities and new challenges.

SIAM commissioned a task force to assess this complex landscape and to craft a strategic vision for the field in the United States for the next 15 years.

The overarching finding of the SIAM Task Force on the Future of Computational Science is that computational science is essential and plays a crucial role in scientific discovery, the economy, and national security, and that investments that ensure the continued leadership of the U.S. should be a high national priority.



M3 Challenge is an entirely internet-based math modeling competition with no registration or participation fees. High school students in the U.S., England, and Wales are eligible to compete.

Teams of three to five students choose a continuous 14-hour window over Challenge weekend to tackle an open-ended, real-world modeling question.

Ph.D. level judges determine the top solutions. Over \$1.95 million in scholarships have been awarded through 2024.

## In 2024:



**Registered**  
**3,596** students  
on **815** teams;  
**131** registered teams  
from the UK



**Participating**  
**2,948** students in  
**650** teams, and 516  
unique participating  
coaches;  
**107** participating teams  
from the UK

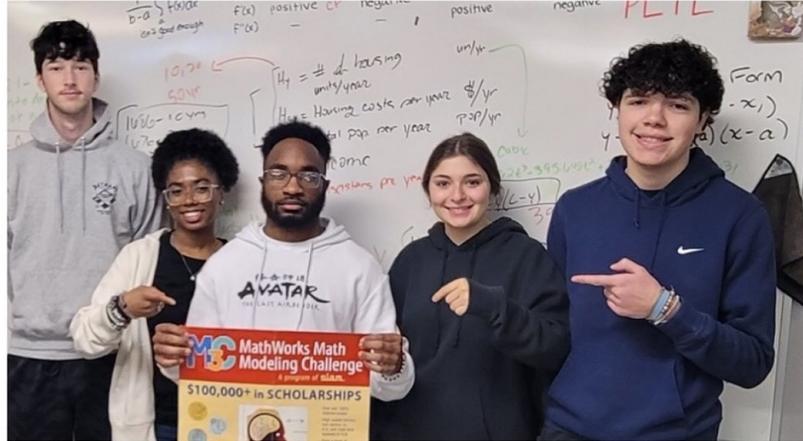


**Scholarships**  
\$100,500 in  
scholarships awarded  
to 37 teams and  
teachers at six schools



# M3 MathWorks Math Modeling Challenge

A program of SIAM.



Finalist teams travelled to NYC to present their solutions in front of a panel of five SIAM judges.



This year's question was about the interrelated issues of homelessness and the affordable housing crisis .



The 2024 Champion team is Philips Academy from Andover, Massachusetts.

# SIAM-Simons Undergraduate Summer Research Program

*Funded via award 1036702 from the Simons Foundation.*

Each summer, SIAM establishes five sites across the US, each with two undergrads working under a faculty mentor on an applied math, computational science, and/or data science project.

- In addition to research, participants:
  - engage in community-building activities,
  - learn about career options,
  - learn about and grad school, and
  - present their work.
- This program targets students who are currently underrepresented in our disciplines.



# SIAM-Simons Undergraduate Summer Research Program



**Mentor:** Sooie-Hoe Loke

Central Washington  
University



**Mentor:** Alexandria Volkening

Purdue University



**Mentor:** Henry Boateng

San Francisco State  
University



**Mentor:** John R. Jungck

University of  
Delaware



**Mentor:** Dr. Vazquez Landrove

Simpson University

*Funded via award 1036702 from the Simons Foundation.*

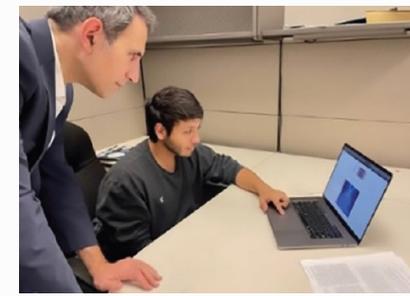
# SIAM Postdoctoral Support Program

*This program is made possible by gifts to the SIAM Postdoctoral Support Fund by Dr. Martin Golubitsky and Dr. Barbara Keyfitz with additional support from Dr. Sam Gubins and Eleanor Gubins.*

The program provides up to \$15,000 in financial support for postdoctoral researchers to work with a mentor from a different institution to foster direct research experience and professional development.

Three postdoc-mentor pairs started working together in 2023  
Four postdoc-mentor pairs have been selected for 2024/2025

Applications for the next round of support will open in September.



L: Gabriela Kováčová & Igor Cialenco  
R: Jimmie Adriaola & Panos Kevrekidis

## 2024 SIAM Postdoctoral Support Recipients



**Nicolás Barnafi**  
Center for Mathematical Modeling  
(Santiago, Chile)  
Mentor: Massimiliano Lupo Pasini  
Oak Ridge National Laboratory



**Julia Lindberg**  
University of Texas - Austin  
Mentor: Guido Montufar  
University of California - Los Angeles



**Mattia Manucci**  
University of Stuttgart  
Mentor: Serkan Gugercin  
Virginia Tech



**Abba Ramadan**  
University of Alabama  
Mentor: Keith Promislow  
Michigan State University

# SIAM Career Fairs

October 11, 2023 – virtual career fair

- 245 fully registered job seekers
- 10 employer booths

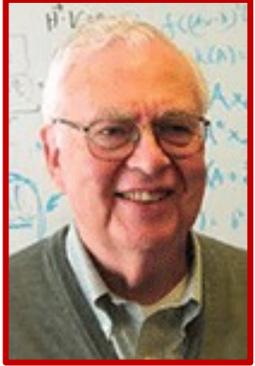
Wed Oct 23, 2024 in-person career fair  
at SIAM Conference on Mathematics of Data Science

We are seeking companies to participate in the Oct  
2024 career fair.

Email [sponsorship@siam.org](mailto:sponsorship@siam.org) with suggestions &  
contacts!



# SIAM Programs



## Gene Golub SIAM Summer School

*Funded from the generous bequest of former SIAM President Gene Golub*

- 2023: **Quantum Computing and Optimization**, Lehigh University, July 31 – Aug 11  
Organizers: Tamás Terlaky, Luis Zuluaga,, Arielle Carr, Xiu Yang
- 2024: *coming up ...* **Iterative & Randomized Methods for Large-Scale Inverse Problems**, Quito, Ecuador, July 22 – Aug 2

## SIAM Activity Group Webinar Series

- Imaging & Inverse Problems (IMAGINE) OneWorld SIAM-Imaging Science Virtual Seminar Series Seminar In the Analysis and Methods of PDE (SIAM PDE)
- SIAM SAGA - Seminar on Applied Geometry and Algebra
- SIAM Activity Group on FME Virtual Talk Series
- Activity Group on Geosciences Virtual Talk Series
- SIAG/ACDA Online Seminar Series
- SIAG/MPE Community Meetings
- SIAM Activity Group on Linear Algebra Virtual Talk Series

# SIAM Partner Programs

## Graduate Student Math Modeling Camp

Univ of Delaware, June 20-23, 2024

## Mathematical Problems in Industry Workshop

University of Vermont, June 25-29, 2024



Vironix Health



RTX

Funding for these programs come from the *SIAM Jim Crowley Fund for Student Support* and from the industries

*Thank you to our donors!*



## MAA-SIAM PIC Math Program

funded by NSF grant DMS-1722275



# SIAM Partner Programs

## Graduate Student Math Modeling Camp

Univ of Delaware, June 7 – 10, 2023

## Mathematical Problems in Industry Workshop

University of Vermont, June 25-29, 2024

Support from NSF and *from SIAM through donations to the  
**SIAM Jim Crowley Fund for Student Support.***

*Thank you to our donors!*

## MAA-SIAM PIC Math Program

funded by NSF grant DMS-1722275





# Awards & Fellowships

# SIAM Honors and Awards

SIAM has 18 major awards/lectures, 36 activity group prizes, 3 student prizes, and 9 joint prizes, for a total of 66 prizes.

**New major award, the SIAM Industry Prize, approved by Board & Council in 2023.**

*The SIAM Industry Prize will be awarded every year to an individual researcher or team (referred to as “awardee”) who has had outstanding contributions to the effective application of mathematical sciences to industry. This work and its impact may be documented in letters that convey the significance and importance of the work, and/or peer reviewed papers, conference proceedings and/or patents.*

***Thank you to the donors who are making this prize possible!***

**Please nominate colleagues who deserve to be recognized for their achievements!**

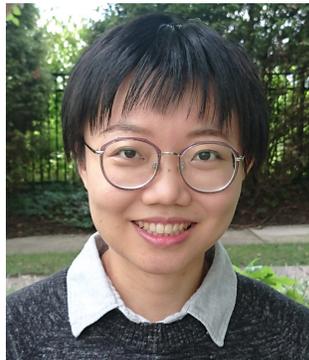
**Questions? Contact [prizeadmin@siam.org](mailto:prizeadmin@siam.org)**

Visit also <https://www.siam.org/deadline-calendar>

# MGB-SIAM Early Career Fellows



**Daniel Alejandro Cruz**  
University of Florida



**Chrisy Xiyu Du**  
University of Hawai'i at  
Mānoa



**Emmanuel Fleurantin**  
George Mason  
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**Sarafa Adewale Iyaniwura**  
Los Alamos National  
Laboratory



**Kristin Kurianski**  
California State  
University, Fullerton



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