



# Annual Report 2022/23

July 24, 2023

SVEN LEYFFER

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SUZANNE L. WEEKES

SIAM CHIEF EXECUTIVE OFFICER

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\*Newly Elected/Re-Elected



# 2023 SIAM Officers

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\* Appointed in  
January 2023

# 2023 SIAM Council

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**Natalia Alexandrov**, NASA Langley Research Center

**Sharon Arroyo**, Boeing Company

**Inga Berre**, University of Bergen

**Susanne C. Brenner**, Louisiana State University

**Ron Buckmire**, Occidental College

**Elizabeth Cherry**, Georgia Institute of Technology

**Hans De Sterck**, University of Waterloo

**Alicia Dickenstein**, Universidad de Buenos Aires\*

**Howard Elman**, University of Maryland

**Heike Fassbender**, Technische Universität Braunschweig\*

**Laura Grigori**, Inria

**Samuel Gubins**, Annual Reviews

**Johnny Guzmán**, Brown University

**Kathleen Kavanagh**, Clarkson University

**Gitta Kutyniok**, LMU Munich

**Sven Leyffer**, Argonne National Laboratory

**Lois Curfman McInnes**, Argonne National Laboratory

**Susan Minkoff**, University of Texas, Dallas

**James Nagy**, Emory University

**Evelyn Sander**, George Mason University

**Carola-Bibiane Schoenlieb**, University of Cambridge

**Valeria Simoncini**, Università' di Bologna\*



\*Newly Elected/Re-Elected

# Candidates – 2024 SIAM Officers

SIAM elections will run September to November.

## President

**Juan C. Meza**, University of California, Merced

**Carol Woodward**, Lawrence Livermore Nat'l Lab

## Vice President at Large

**Thomas A. Grandine**, University of Washington

**Xiaoye Sherry Li**, Lawrence Berkeley Nat'l Lab

## Secretary

**Karen Devine**, Sandia Nat'l Lab (retired)

**Anusha Sekar**, Chevron

# Candidates – 2024 SIAM Board & Council Elections

SIAM elections will run September to November.

## SIAM Board (3 seats)

**Kevin Bongiovanni**, Raytheon Technologies

**Liliana Borcea**, University of Michigan, Ann Arbor\*

**Dirk Hartmann**, Siemens Digital Industry Software

**Jan Hesthaven**, EPFL\*

**Esmond Ng**, Lawrence Berkeley Nat'l Lab\*

**Cynthia Phillips**, Sandia Nat'l Lab

## SIAM Council (4 seats)

**John Abbott**, Corning Inc., retired

**Elizabeth Cherry**, Georgia Tech\*

**Hans De Sterck**, University of Waterloo\*

**Inderjit Dhillon**, UT Austin & Google

**Chang-Ock Lee**, Korea Advanced Inst. of Science & Technology

**Knut-Andreas Lie**, SINTEF Digital, Norway

**Andrea Walther**, Humboldt-Universität zu Berlin

\*Incumbent

# SIAM Conferences



## How do bats use sonar?

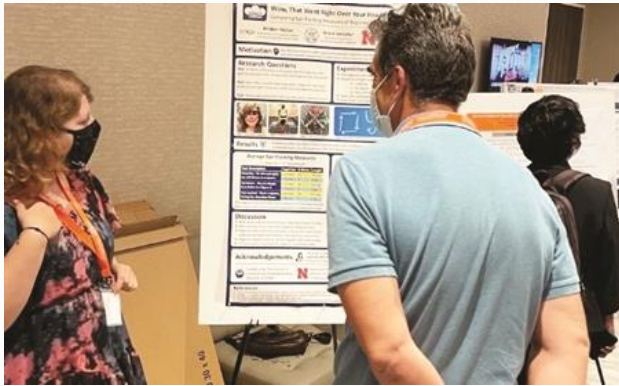
- Frequency modulation: M. E. Bates et al., 2008. "Jamming avoidance response of brown bats in target detection." *Journal of Experimental Biology* 211(1), p. 106-113.
- Decreasing or increasing vocalizations: C. Chiu, W. Xian, and C. F. Moss, 2008. *PNAS* 105(35), pp. 13116-13121, Lin Y., Abaid N.,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

# Since we last met:

- **Nonlinear Waves & Coherent Structures (NWCS22)** – Aug/Sep 2022 – Bremen, Germany – *hybrid*
- **Mathematics of Data Science (MDS22)** – Sep 2022 – San Diego, CA – *hybrid*
- **Discrete Algorithms (SODA/SOSA/ALENEX/APOCS23)** - January 2023 – Florence, Italy - *hybrid*
- **Computational Science & Engineering (CSE23)** – Feb/Mar 2023 – Amsterdam, The Netherlands – *in person only*
- **Data Mining (SDM23)** - April 2023 – Minneapolis, MN – *in person only*
- **Dynamical Systems (DS23)** – May 2023 – Portland, OR – *in person only*
- **Optimization (OP23), ACDA23** – May/June 2023 – Seattle, WA – *in person only*
- **Financial Mathematics & Engineering (FM23)** – June 2023 – Philadelphia, PA – *in person only*
- **Geosciences (GS23)** – June 2023 – Bergen, Norway – *in person only*
- **Geometric Design (GD23)** – July 2023 – Genoa, Italy – *in person only*
- **Algebraic Geometry (AG23)** – July 2023 – Eindhoven, The Netherlands – *hybrid*



# SIAM Section Meetings



- **Central States Section Annual Meeting – Oct 2022**
- **DC-Baltimore Section Annual Meeting – Nov 2022**
- **Texas Louisiana Section Annual Meeting – Nov 2022**
- **Southeastern Atlantic Section Annual Meeting – Mar 2023**
- **United Kingdom and the Republic of Ireland Section Annual Meeting – Apr 2023**
- **Northern States Section Annual Meeting – April 2023**
- **Argentina Section Annual Meeting – May 2023**
- **Mexico Section Annual Meeting – Jun 2023**



*and more coming up!*

# SIAM Conferences Notes

## ➤ SIAM Conferences received financial support from

- the **US National Science Foundation** DMS 1757085, DMS 2244415, and DMS 2233032
  - *Workshop Celebrating Diversity* held at SIAM Dynamical Systems Conference in 2023
  - 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

- 2022: **286**                      2023 YTD: **282**

*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

- 2022: **71**                      2023 YTD: **56**

## ➤ Childcare Grants – both virtual and in-person attendees eligible

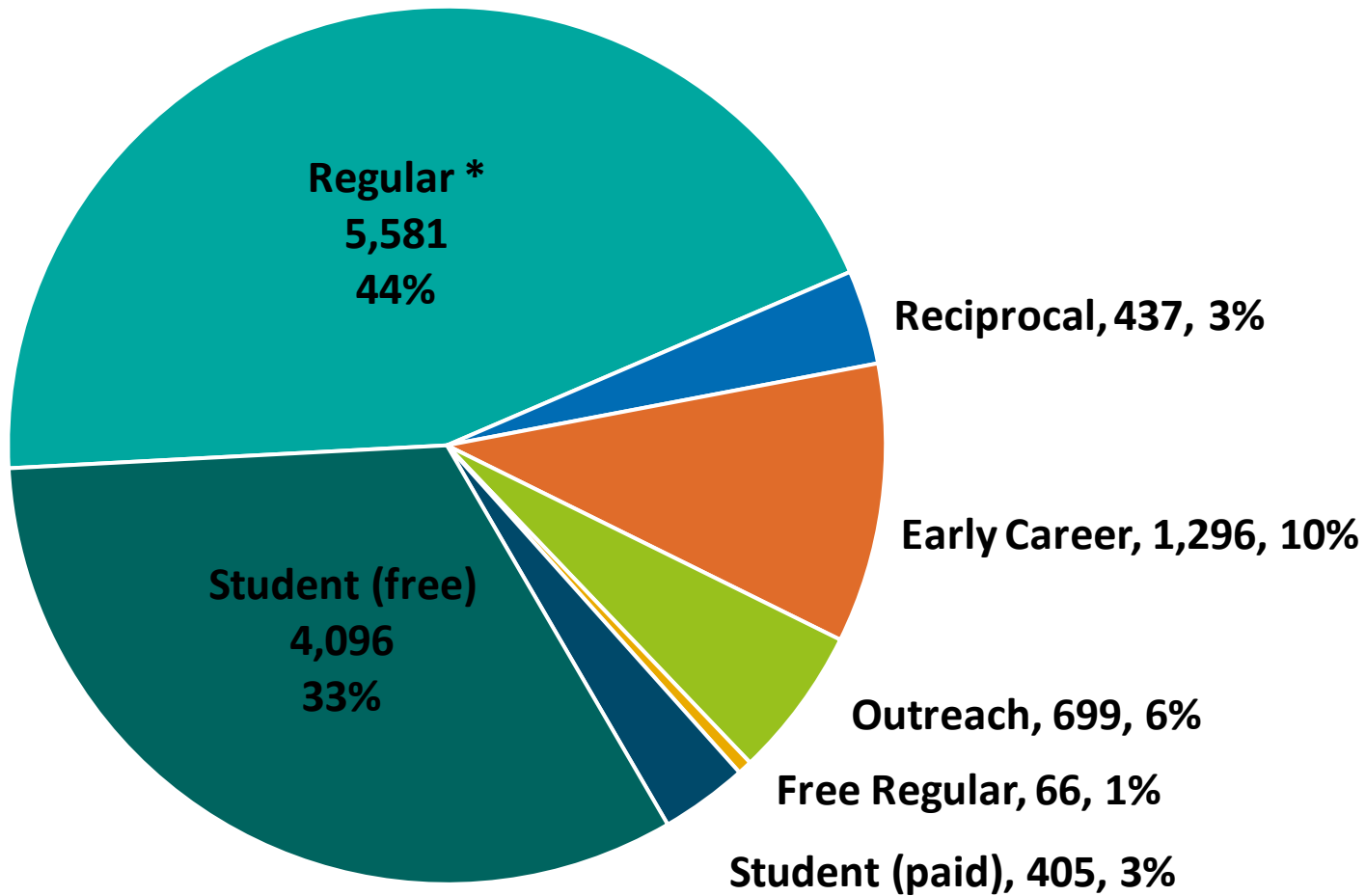


# Membership

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

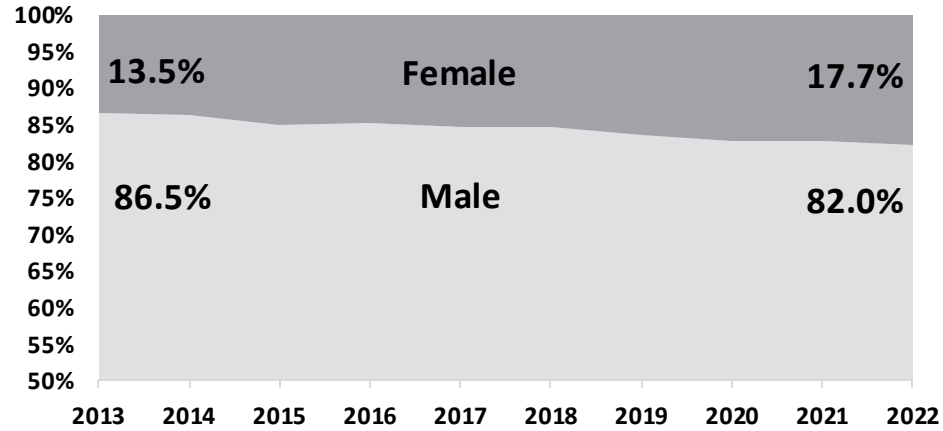


## 2022 Membership by Type

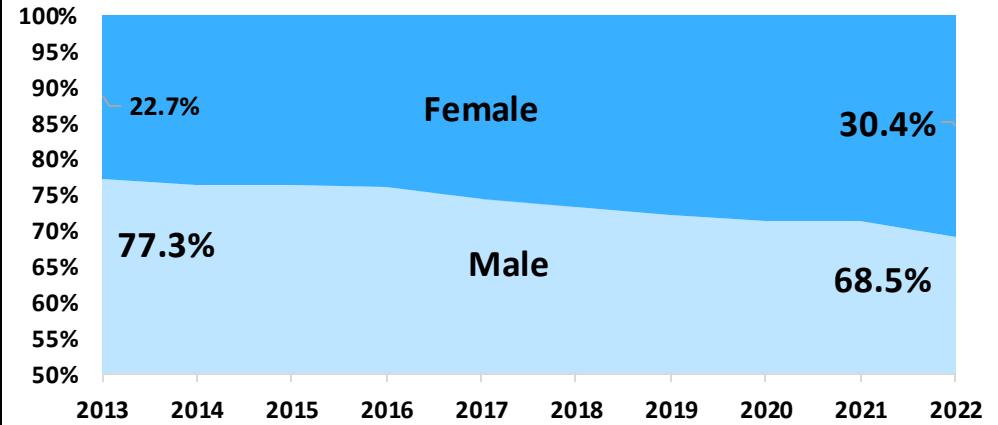


# SIAM Membership

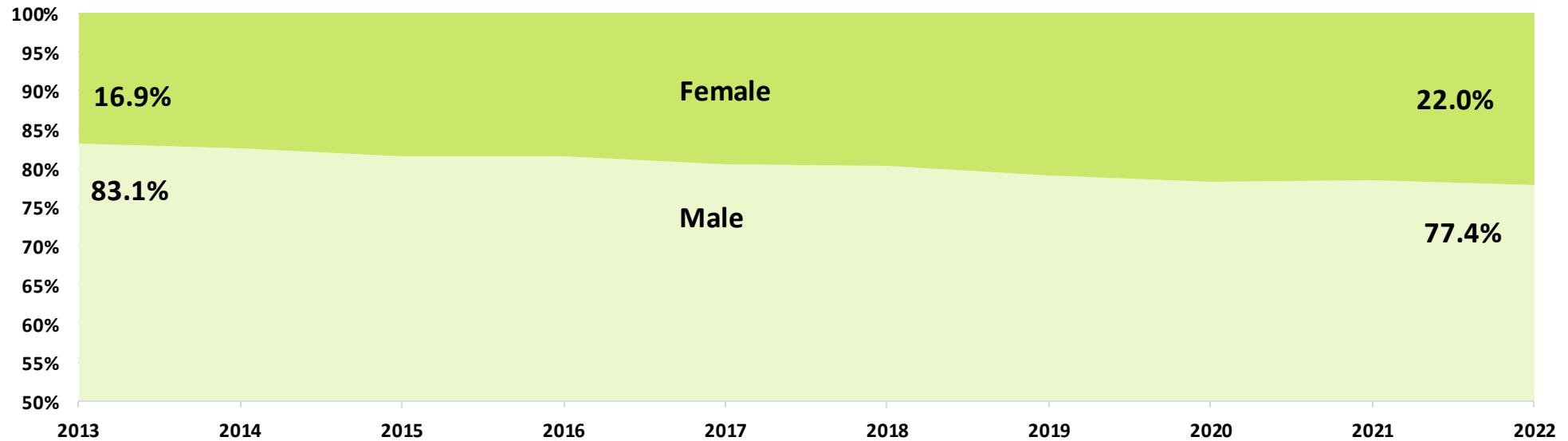
### Known Nonstudent Gender Breakdown



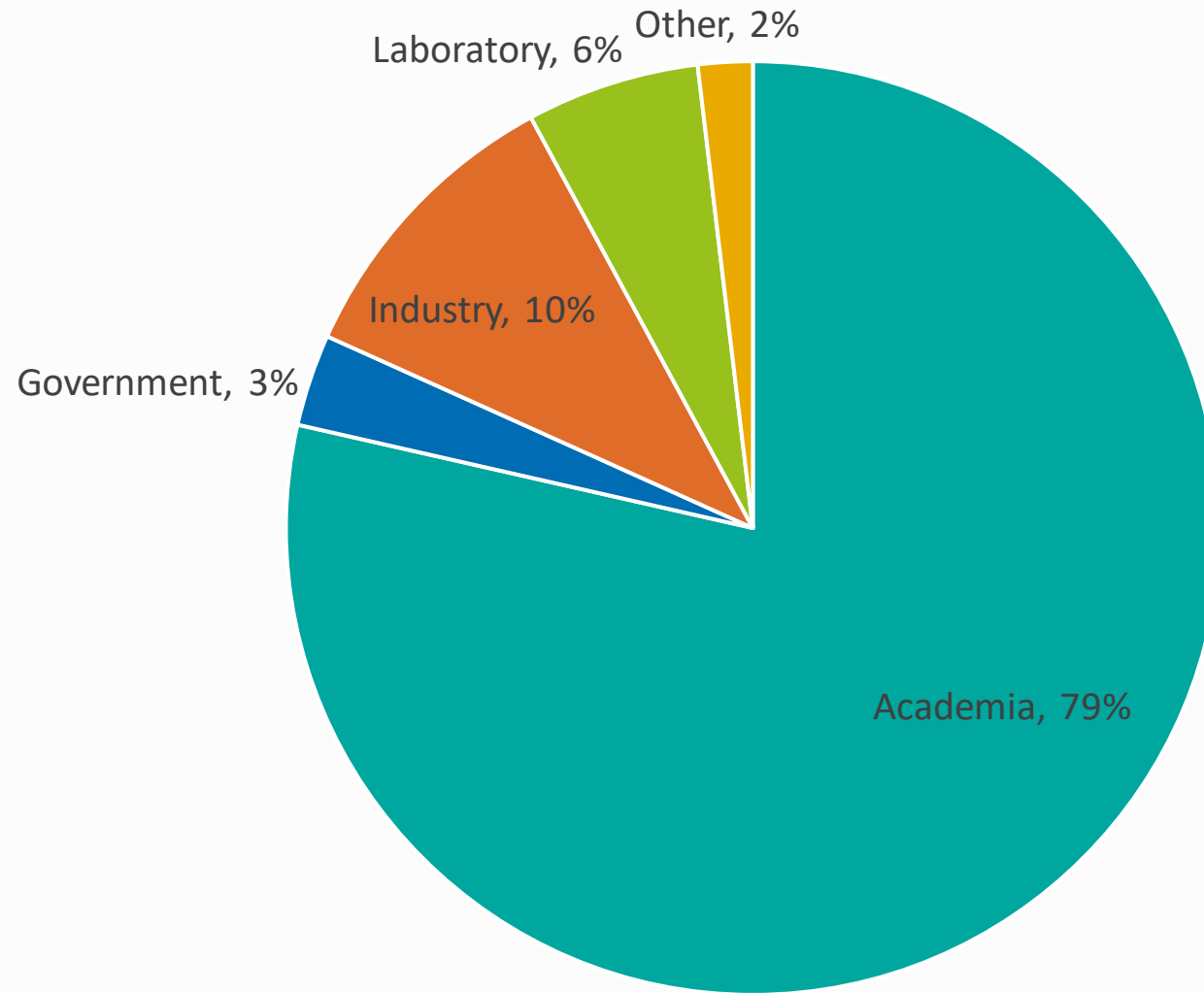
### Known Student Gender Breakdown



### Total Known Gender Breakdown



# Employer Type (Excluding Students)





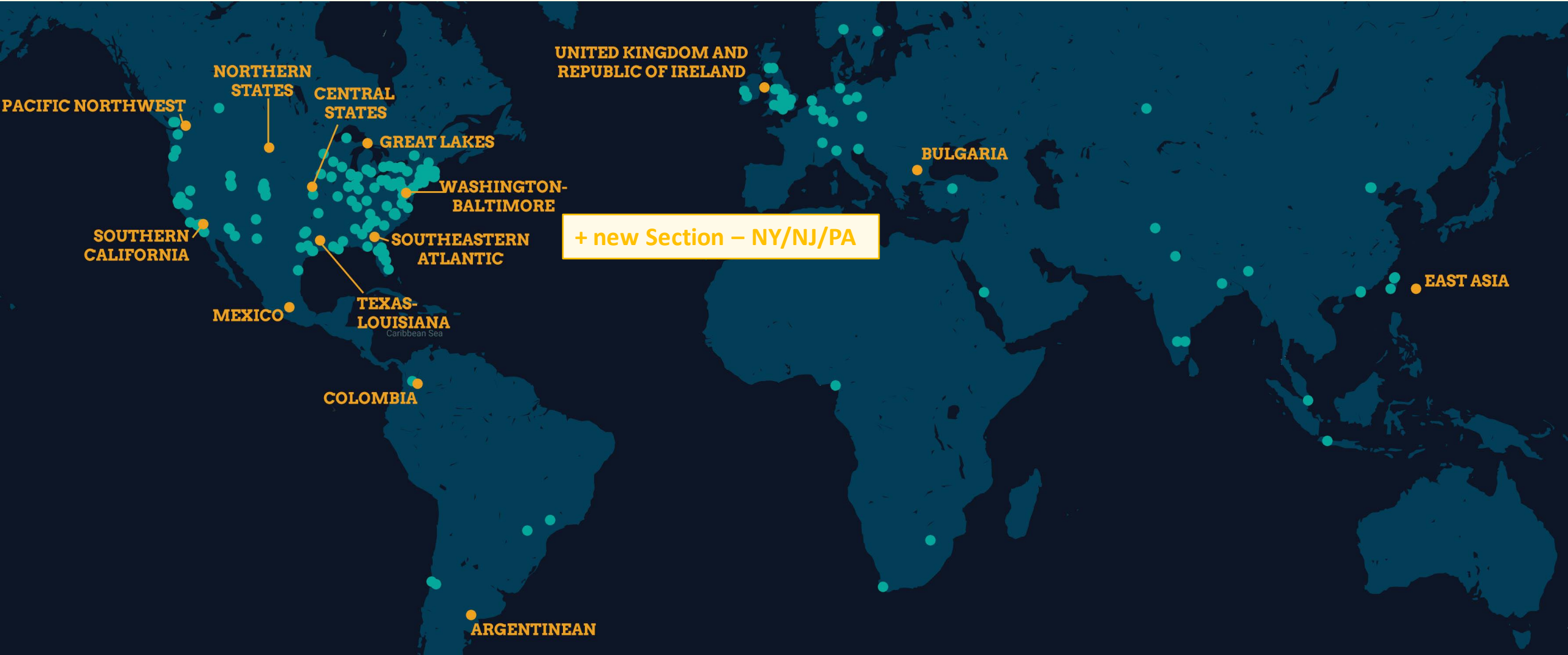
# SIAM Members are in 103 Countries

## Top 10 by Total Members

1	USA	7715	6	China	222
2	Germany	581	7	Japan	217
3	United Kingdom	565	8	Italy	192
4	Canada	380	9	France	155
5	India	295	10	Switzerland	154

# 15 SIAM Sections

Thank you to the Section Officers and volunteers!

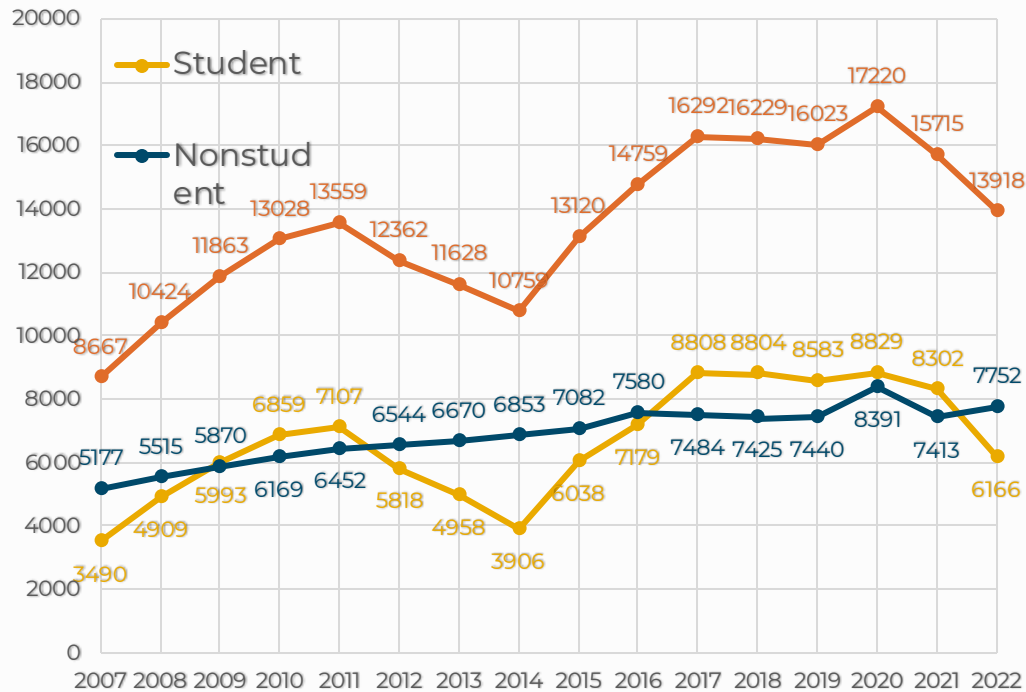




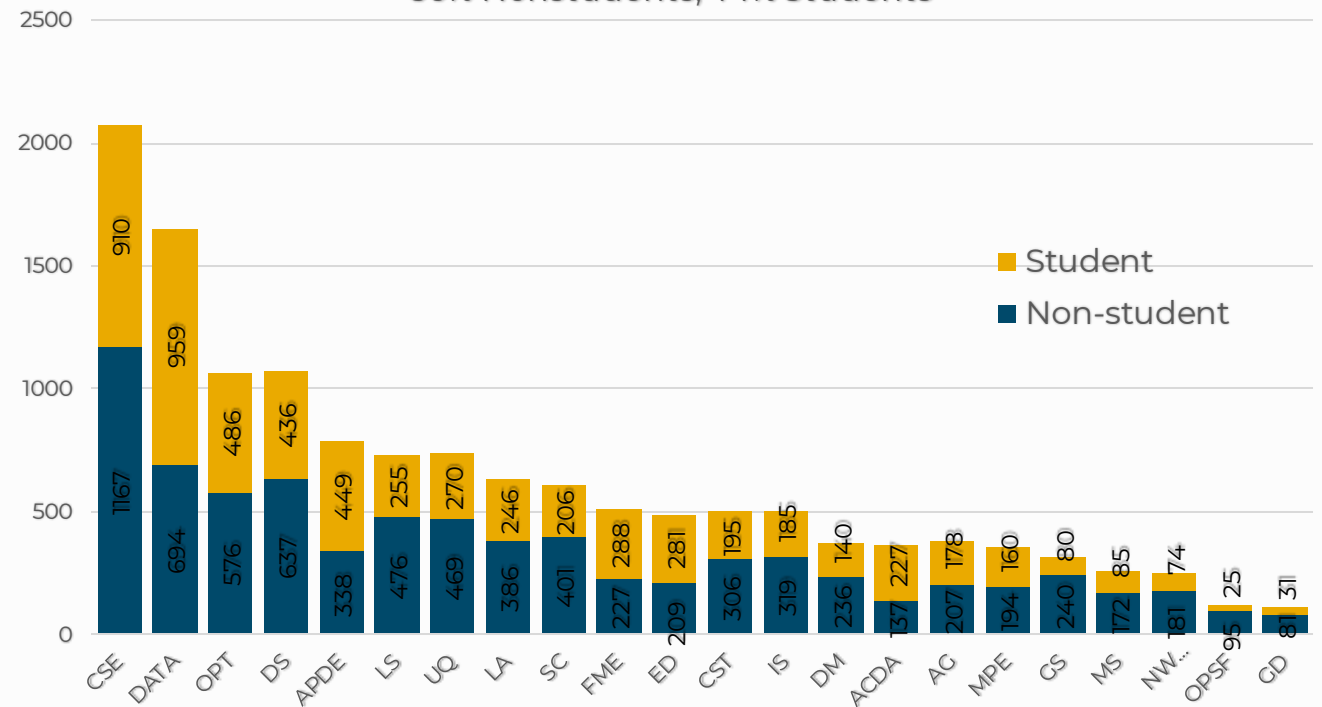
# SIAM ACTIVITY GROUPS

Thank you to the SIAG Officers and volunteers!

## SIAG Membership History



## 13,914 SIAM Activity Group Memberships as of 12/31/2022 56% Nonstudents, 44% Students



# 217 SIAM Student Chapters in 29 Countries



Chapter Counts by Country	
USA	138
UK	15
Germany	9
India	6
Canada, China, Hong Kong	4
Chile, Ireland, Japan, Pakistan, Taiwan	3
Italy, Mexico, South Africa, Switzerland, Turkey	2
Belgium, Brazil, Czech Republic, Indonesia, Kazakhstan, Netherlands, Saudi Arabia, Singapore, South Korea, Sri Lanka, Sweden	1



# Publications

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

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## 2022 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 – Daniel Kral

SIFIN – Mete Soner

SIIMS – Gabriele Steidl

SIMA – Robert Lipton

SIMAX – Michele Benzi

SIMODS -Tamara Kolda

SINUM – Mark Ainsworth

SIOPT – Jong-Shi Pang

SIREV – Desmond Higham

SISC – Hans De Sterck

SIURO – Joanna Wares

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

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SIDMA – [Stanislav Zivny](#)

SIFIN – Mete Soner

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SINUM – Mark Ainsworth

SIOPT – Jong-Shi Pang

SIREV – [Carola-Bibiane Schonlieb](#)

SISC – Hans De Sterck

SIURO – Joanna Wares

## New features delivered:

- Most SIAM journals now publishing full text XML in addition to PDF
- Improved search, including predictive typeahead search
- Optimized for desktop, tablet and smartphone
- Related content recommendations
- One-click BibTeX download
- One-page Email Alert Sign-Up

## Coming in 2023:

- Integrated SIAM online bookstore, enabling SIAM to sell e-books direct to individuals for the first time
- Single sign-on for SIAM members
- Inline video for articles and book chapters

The screenshot displays the SIAM Publications Library website. The main heading is "SIAM Publications Library Enhancements". The navigation bar includes the SIAM logo, "Publications Library", a search bar with "ANYWHERE" and "Enter Search Terms", "Advanced Search", "Register", and "Sign In". Below the navigation bar are links for "Journals", "E-books", "Proceedings", "For Authors", and "For Librarians", along with "JOIN SIAM" and "HELP/CONTACT US". The main content area features three large buttons: "Journals", "Books", and "Proceedings". Below these are three sections: "LATEST ARTICLES", "LATEST E-BOOKS", and "LATEST PROCEEDINGS". The "LATEST ARTICLES" section lists two articles: "Satisfiability in MultiValued Circuits" by Pawel M. Idziak and Jacek Krzaczkowski, and "Robust Identification of Differential Equations by Numerical Techniques from a Single Set of Noisy" by Yuchen He, Sung-Ha Kang, Wenjing Liao, Hao Liu, and Yingjie Liu. The "LATEST E-BOOKS" section lists two books: "The Network HHD: Quantifying Cyclic Competition in Trait-Performance Models of Tournaments" by Alexander Strang, Karen C. Abbott, and Peter J. Thomas, and "Variance and Covariance of Distributions on Graphs" by Karel Devriendt, Samuel Martin-Gutierrez, and Renaud Lambiotte. The "LATEST PROCEEDINGS" section is currently empty. A "VIEW MORE" link is located at the bottom right of the article list. On the right side of the page, there is a "SIAM Textbooks" section with a logo and a description: "SIAM publishes graduate and undergraduate textbooks on a wide range of topics. The books include examples, problem sets, and code. Explore SIAM textbooks now."

SIAM Journal on Applied Mathematics (SIAP) *Special Section on the Life Sciences* is ongoing; 8 papers have appeared electronically, and the rest of the submissions are now under review.

SIAM Journal on Scientific Computing (SISC) **Reproducibility Badges:** SISC now allows authors to request a reproducibility badge at submission. The badge will appear with the published manuscript for qualifying SISC papers as a recognition that authors follow reproducibility principles valued by the journal and the scientific computing community.

# SIAM Books Program

SIAM welcomes potential authors and suggestions for new topics!

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

## Published in 2022:

- Adcock et al., *Sparse Polynomial Approximation of High-Dimensional Functions*
- Börgers, *Introduction to Numerical Linear Algebra*
- Ciaramella/Gander, *Iterative Methods and Preconditioners for Systems of Linear Equations*
- Garon/Delfour, *Transfinite Interpolation and Eulerian/Lagrangian Dynamics*
- Higham/Sherwood, *How to Be Creative: A Practical Guide for the Mathematical Sciences*
- Trefethen, *An Applied Mathematician's Apology*
- Gatto, *Mathematical Foundations of Finite Elements and Iterative Solvers*



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SIAM welcomes potential authors and suggestions for new topics!

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

## Published in 2022 cont'd :

- Brezinski et al., *A Journey through the History of Numerical Linear Algebra*
- Levy, *Basics of Practical Optimization, 2e*
- Asch, *A Toolbox for Digital Twins: From Model-Based to Data-Driven*
- Kaszkurewicz/Bhaya, *Business Dynamics Models: Optimization-Based One Step Ahead Optimal Control*
- Kelley, *Solving Nonlinear Equations with Iterative Methods: Solvers and Examples in Julia*
- Pedregal, *A Variational Approach to Optimal Control of PDEs*
- Bouman, *Foundations of Computational Imaging*

# SIAM Books Program

SIAM welcomes potential authors and suggestions for new topics!

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## Published in 2022 cont'd:

- Cartis et al., *Evaluation Complexity of Algorithms for Nonconvex Optimization*
- Cakoni et al., *Inverse Scattering Theory and Transmission Eigenvalues, 2e*
- Rozza et al, *Reduced Order Methods in Computational Fluid Dynamics and Applications*
- Driscoll/Braun, *Foundations of Numerical Computation: Julia Edition*
- Calvetti/Somersalo, *The Less is More Linear Algebra of Vector Spaces and Matrices*
- Kogge, *The Zen of Exotic Computing*
- Milton, *Theory of Composites*
- Oliveira/Krstic, *Extremum Seeking Through Delays and PDEs*

# SIAM Books Program

SIAM welcomes potential authors and suggestions for new topics!

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

## Published in 2023 thus far:

- 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*

SIAM News articles fall into the following general categories:

- Conference Coverage
- Research
- Students and Education
- Careers in Mathematical Science
- Software and Programming
- Ethics in Mathematics
- Science Policy
- Book Reviews
- SIAM Around the World
- From the SIAM Bookshelf
- Obituaries
- Q&As
- Nuggets –applied research in SIAM journals for a broader audience.



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

Lina Sorg, SIAM News Managing Editor

Hans Kaper, SIAM News Editor-in-Chief

# Activities & Programs

# SIAM Convening on Climate Science, Sustainability, and Clean Energy

## Nine Recommendations

- 1) A Paradigm for Digital Twins to Safeguard the Planet
- 2) What Happens in the Arctic Does Not Stay in the Arctic
- 3) Transforming Education to Address Complex Futures
- 4) Extreme Learning
- 5) The End of Fossil Fuels
- 6) ACED: Accelerated Circular Economy Development
- 7) Sustainable Smart Water Systems
- 8) Unraveling the Climate Vulnerability Web: Integration of Physical, Biological, Human Social, and Economic Models in Time and Space
- 9) Change the Conversation at the Local Level



**DMS 2227218**

**Oct 10-12, 2022**

<https://siam.org/publications/reports>

# MathWorks Math Modeling Challenge

A program of **siam**.



Since 2006 over 11,000 teams comprised of over 50,000 high school students have worked on big, open-ended problems using math modeling, and those rising to the top have shared more than \$1.85 million in scholarship awards.

Over 5,000 different math teachers have served as team coaches. Among other resources, two modeling handbooks have been published and ~150 videos produced.

In 2023, 650 teams comprised of ~3000 high school juniors and seniors in the US and sixth form students in the UK competed for \$100,000 in scholarship awards.

# M3 MathWorks Math Modeling Challenge

A program of SIAM.

All 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 growth of e-bike usage, and teams also heard from an expert at the NYC Department of Transportation about how they make data-driven decisions about traffic.

The 2023 Champion team is from Thomas Jefferson High School of Science and Technology in Alexandria, Virginia.





# 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

*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 established by Dr. Martin Golubitsky and Dr. Barbara Keyfitz.*

- The program provides up to \$15,000 in financial support for postdoctoral researchers to work with a mentor from a different institution.
- The goal is to foster direct research experience and professional development.
- Up to four postdoc/mentor pairs will be selected annually
- Three postdoc-mentor pairs have been offered funds in 2023
- The application for the next round of support will open in September.



# SIAM Programs



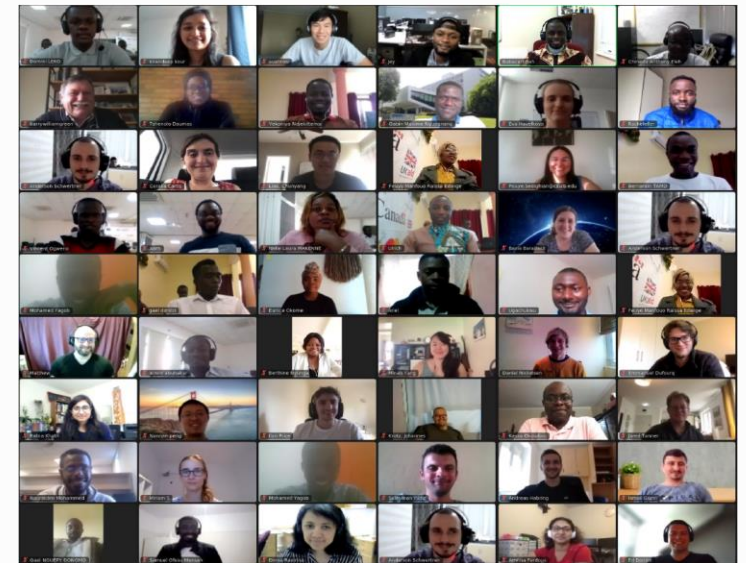
## Gene Golub SIAM Summer School

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

- 2022: **Financial Analytics: Networks, Learning, and High Performance Computing**, L'Aquila, Italy, Aug. 1-12
- 2023: **Quantum Computing and Optimization**, Lehigh University, July 31 – Aug 11
- 2024: **Iterative & Randomized Methods for Large-Scale Inverse Problems**, Quito, Ecuador, July 22 – Aug 2

## SIAM Activity Group webinar series

- Seminar In the Analysis and Methods of PDE – *Analysis of PDEs*
- Seminar on Applied Geometry and Algebra – *Algebraic Geometry*
- Virtual Talk Series – *Financial Mathematics and Engineering*
- Geosciences Webinar Series – *Geosciences*
- Online Seminar Series – *Applied and Computational Discrete Algorithms*
- Imaging & Inverse Problems (IMAGINE) OneWorld - *Imaging Science*
- SIAG/LA Virtual Talk Series – *Linear Algebra*
- Supercomputing Spotlights Webinar Series - *Supercomputing*



# Career Fairs

## SIAM Career Fairs

- Sept 29, 2022 – at Mathematics of Data Science (MDS22) conference – *in person*
  - First in-person career fair since 2019
  - 9 employers and ~175 jobseekers
- April 4, 2023 – spring career fair – *virtual*
  - 9 employers and 187 jobseekers

### Coming up:

- October 11, 2023 – fall career fair – *virtual*

We are currently seeking companies to participate in the career fairs – email [programs@siam.org](mailto:programs@siam.org) if you have suggestions & contacts!



# SIAM Partner Programs



## Graduate Student Math Modeling Camp

Univ of Delaware, June 7 – 10, 2023

## Mathematical Problems in Industry Workshop

New Jersey Institute of Technology, June 12 – 16, 2023

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

**PICMath**

# MGB-SIAM Early Career Fellows



**Jorge Cisneros**  
University of Texas at  
Austin



**Olaniyi Samuel Iyiola**  
Clarkson University



**Oscar Leong**  
California Institute of  
Technology



**Danielle J. Middlebrooks**  
National Institute of  
Standards and  
Technology

**Welcome to the second cohort of  
MGB-SIAM Early Career Fellows!**

---

Recognizing and supporting the achievements, professional activities and development of early career applied mathematicians – particularly those belonging to racial and ethnic groups historically excluded from the mathematical sciences in the United States.

**Applications open for our third  
cohort in fall 2023.**



**Marieme Ngom**  
Argonne National  
Laboratory



**Steven Noel Rodriguez**  
U.S. Naval Research  
Laboratory



**Devina Pribadi Sanjaya**  
University of Tennessee,  
Knoxville



**Andrés R. Vindas Meléndez**  
University of California,  
Berkeley

# 2023 SIAM Science Policy Fellows



**Julie Bessac**  
National Renewal  
Energy Laboratory



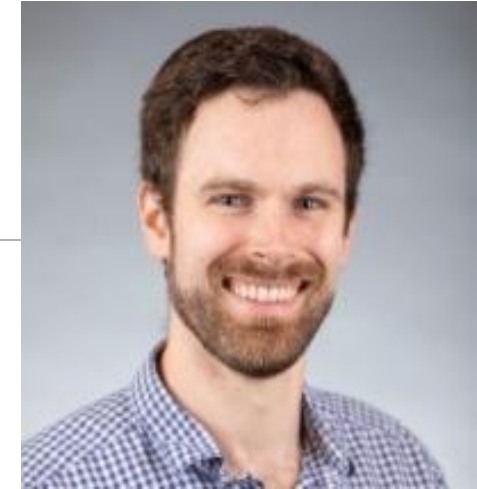
**Victor Churchill**  
Ohio State University,  
Trinity College



**Jeffrey Larson**  
Argonne National  
Laboratory



**Bashir Mohammed**  
Intel Labs



**Jake Price**  
University of  
Puget Sound

The **SIAM Science Policy Fellowship Program** develops post-doctoral fellows and early career researchers into strong advocates for U.S. federal support in applied mathematics and computational science.

**Applications for 2024 open in Fall 2023.**

Fellows and SIAM Science Policy Committee members attend congressional meetings in Washington D.C. to advocate for SIAM's interests, and work on policy projects.



# SIAM Honors and Awards

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

## Major award, the Ivo and Renata Babuška Prize, approved by the Board in July 2022.

*The Ivo & Renata Babuška Prize will be awarded every two years in recognition of high-quality interdisciplinary work that targets any aspect of modeling and numerical solution of a specific engineering or scientific application, including mathematical modeling, numerical analysis, algorithms, and validation.*

Thank you to the Babuškas who made this prize possible!

## New Activity Group Prize

SIAG/Optimization Test of Time Award (first awarded at OP23)

**Please nominate people who deserve to be recognized for their contributions and achievements!**

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

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

## 2023 Class of SIAM Fellows

**Rodrigo Bañuelos**  
Purdue University

**George Biros**  
The University of Texas at  
Austin

**Ron Buckmire**  
Occidental College

**Fioralba Cakoni**  
Rutgers, The State  
University of New Jersey

**Daniela Calvetti**  
Case Western Reserve  
University

**Coralia Cartis**  
University of Oxford

**Alina Chertock**  
North Carolina State  
University

**Lenore Jennifer Cowen**  
Tufts University

**Petros Drineas**  
Purdue University

**Aric Hagberg**  
Los Alamos National  
Laboratory

**Chandrika Kamath**  
Lawrence Livermore  
National Laboratory

**Angela Kunoth**  
University of Cologne

**James Donald Meiss**  
University of Colorado  
Boulder

**Andrew M. Odlyzko**  
University of Minnesota

**Ali Pinar**  
Sandia National  
Laboratories

**Edward B. Saff**  
Vanderbilt University

**David James Silvester**  
The University of  
Manchester

**Barry Simon**  
California Institute of  
Technology

**Catherine Sulem**  
University of Toronto

**Sivan Toledo**  
Tel Aviv University

**Konstantina Trivisa**  
University of Maryland,  
College Park

**Caroline Uhler**  
Massachusetts Institute of  
Technology and Broad  
Institute

**John S. Wettlaufer**  
Yale University and Nordic  
Institute for Theoretical  
Physics

**Dongbin Xiu**  
The Ohio State University

**Laurent Younes**  
Johns Hopkins University

**Yongjie Jessica Zhang**  
Carnegie Mellon University





**Join SIAM!** <https://www.siam.org/join-siam>

**Support our mission!** <https://www.siam.org/donate>

See you in Spokane, Washington for the 2024 SIAM  
Annual Meeting