

Program Timetable

This document provides a thumbnail sketch of all scientific and social events so you can easily see which events may overlap and better plan your time.

Tuesday, January 07

AMS (AMERICAN MATHEMATICAL SOCIETY)

8:00AM–3:00PM *AMS Department Chairs and Leaders Workshop*

9:00AM–12:00PM *BEGIN Bootcamp*

JMM (JOINT MATHEMATICS MEETING)

2:00PM–7:00PM *Joint Meetings Registration*

Wednesday, January 08

JMM (JOINT MATHEMATICS MEETING)

7:00AM–3:00PM *Joint Meetings Registration*

AMS (AMERICAN MATHEMATICAL SOCIETY)

8:00AM–9:30AM *AMS Directors of Graduate Studies Focus Group*

AIM (AMERICAN INSTITUTE OF MATHEMATICS)

8:00AM–12:00PM *AIM Special Session on Math Circles for Makers, Creators, and Artists, I*

AMS (AMERICAN MATHEMATICAL SOCIETY)

8:00AM–12:00PM *AMS Special Session on 35th Anniversary of AI and Math, I*

8:00AM–12:00PM *AMS Special Session on Advancements in Generative Artificial Intelligence for Data Analysis: From Creativity to Innovation, I*

8:00AM–12:00PM *AMS Special Session on Advances in Function Theoretic Operator Theory, I*

8:00AM–12:00PM *AMS Special Session on Algebraic Statistics in Our Changing World, I*

8:00AM–12:00PM *AMS Special Session on Applied Category Theory, I*

8:00AM–12:00PM *AMS Special Session on Arithmetic Dynamics of Single and Multiple Maps, I*

8:00AM–12:00PM *AMS Special Session on Business, Entrepreneurship, Government, Industry and Nonprofit (BEGIN) Career Development within Mathematics Programs, I*

8:00AM–12:00PM *AMS Special Session on Coding Theory for Modern Applications, I*

8:00AM–12:00PM *AMS Special Session on Cohomology of Arithmetic Groups, Mapping Class Groups, and Moduli Spaces, I*

8:00AM–12:00PM *AMS Special Session on Conservation Laws and Boundary Value Problems in far from Equilibrium Dynamics, I*

- 8:00AM–12:00PM *AMS Special Session on Dynamical Systems Modeling Approaches Across Multiple Biological Scales, I*
- 8:00AM–12:00PM *AMS Special Session on Exploring Dynamics and Bifurcation Analysis of Discrete Dynamical Systems in Mathematical Biology, I*
- 8:00AM–12:00PM *AMS Special Session on Generalized Derivatives: Analysis on Time Scales, Fractional Calculus, Difference Equations, and Others, I*
- 8:00AM–12:00PM *AMS Special Session on Harnessing the Power of Mathematical Models to Understand Population Dynamics, Ecology, and Evolution, I*
- 8:00AM–12:00PM *AMS Special Session on Knots, 3-manifolds, and Their Invariants, I*
- 8:00AM–12:00PM *AMS Special Session on Local-to-Global in Apollonian Circle Packings and Beyond, I*
- 8:00AM–12:00PM *AMS Special Session on Mathematical Frontiers of Data Science for National Security, I*
- 8:00AM–12:00PM *AMS Special Session on Mathematics of Knowledge Graphs: Theory and Application, I*
- 8:00AM–12:00PM *AMS Special Session on Modeling Natural Resources, I*
- 8:00AM–12:00PM *AMS Special Session on New Trends in Lie Theory and Mathematical Physics, I*
- 8:00AM–12:00PM *AMS Special Session on Partition Theory and q -Series, I*
- 8:00AM–12:00PM *AMS Special Session on Polymath Jr REU Student Research Session, I*
- 8:00AM–12:00PM *AMS Special Session on Recent Advancements in the Numerical Analysis of Nonlinear Partial Differential Equations, I*
- 8:00AM–12:00PM *AMS Special Session on Recent Developments in Regularization Methods for Nonlinear Inverse Problems, I*
- 8:00AM–12:00PM *AMS Special Session on Research from the Graduate Research Workshop in Combinatorics, I*
- 8:00AM–12:00PM *AMS Special Session on Several Complex Variables, Partial Differential Equations, and CR Geometry, I*
- 8:00AM–12:00PM *AMS Special Session on Spectral Theory of Ergodic Operators and Related Models, I*
- 8:00AM–12:00PM *AMS Special Session on Theoretical and Numerical Aspects of Fractional and Nonlocal Models, I*
- 8:00AM–12:00PM *AMS Special Session on Topological Data Analysis: Theory and Applications, I*
- 8:00AM–12:00PM *AMS Special Session on Topological Machine Learning, I*
- 8:00AM–12:00PM *AMS Special Session on Topological, Algebraic, and Geometric Methods for Safe, Robust, and Explainable Machine Learning, I*
- 8:00AM–12:00PM *AMS-SIMIODE Special Session on Modeling Matters in Teaching and Learning Differential Equations, I*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 8:00AM–12:00PM *AWM Special Session on Women in Mathematical Biology, I*
- CRM-PIMS-AARMS (CENTRE DE RECHERCHES MATHÉMATIQUES/PACIFIC INSTITUTE FOR THE MATHEMATICAL SCIENCES/ATLANTIC ASSOCIATION FOR RESEARCH IN MATHEMATICAL SCIENCES)**
- 8:00AM–12:00PM *CRM-PIMS-AARMS Special Session on Indigenous Voices in Mathematics, I*
- ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)**
- 8:00AM–12:00PM *ILAS Special Session on Matrix Analysis and Applications, I*
- 8:00AM–12:00PM *ILAS Special Session on Strong Properties of Matrix Classes, I*
- MAA (MATHEMATICAL ASSOCIATION OF AMERICA)**
- 8:00AM–12:00PM *MAA Special Session on Assessment Practices that Support Equity and Inclusion, I*

- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
 8:00AM–12:00PM *SIAM Minisymposium on Computational Advances in Solving the Electronic Structure Problem for Complex Materials*
- MAA (MATHEMATICAL ASSOCIATION OF AMERICA)**
 8:00AM–12:00PM *SIGMAA Special Session on Mathematics and the Arts, I*
- SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)**
 8:00AM–12:00PM *SLMath (MSRI) Special Session on Metric Geometry and Topology, I*
- TPSE (TRANSFORMING POST-SECONDARY EDUCATION)**
 8:00AM–12:00PM *TPSE Contributed Paper Session on Transformation Models for Inclusive Student Experiences, I*
- JMM (JOINT MATHEMATICS MEETING)**
 8:00AM–3:00PM *Employment Center*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
 8:30AM–10:00AM *AMS Panel: Challenges and Opportunities in Peer Review*
- JMM (JOINT MATHEMATICS MEETING)**
 8:30AM–10:00AM *JMM Panel on The Use of AI tools to Aid Mathematics Research*
- MAA (MATHEMATICAL ASSOCIATION OF AMERICA)**
 8:30AM–10:00AM *MAA Workshop: Supercharging Math Instruction: A Practical Guide to Generative AI Applications*
- ASL (ASSOCIATION OF SYMBOLIC LOGIC)**
 9:00AM–10:00AM *Association for Symbolic Logic Tutorial*
- JMM (JOINT MATHEMATICS MEETING)**
 9:00AM–11:00AM *Professional Enhancement Program (PEP) 5A: Quantum-Accelerated Supercomputing for the Mathematics Classroom*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
 9:30AM–11:00AM *AMS Directors of Undergraduate Studies Focus Group*
- INVITED ADDRESSES**
 9:40AM–10:45AM *AMS John von Neumann Lecture - Lester Mackey, Stanford University*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
 10:30AM–12:00PM *AMS Town Hall: Hearing Student Voices: A Town Hall to Discuss a Bridge to Graduate Education*
- JMM (JOINT MATHEMATICS MEETING)**
 10:30AM–12:00PM *JMM Panel on The 1988–91 AMS “Computers and Mathematics” Initiative to Promote and Support the Use of Computers in Research & Education—And What Followed*
- INVITED ADDRESSES**
 10:50AM–11:55AM *AMS Erdős Lecture for Students - Kristin Lauter, Meta*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
 11:00AM–12:00PM *AMS - MAA Information Session on The Mathematical Education of Teachers III: What Knowledge and Skills Do Mathematics Teachers Need for the 21st Century?*
- ASL (ASSOCIATION OF SYMBOLIC LOGIC)**
 1:00PM–2:00PM *Association for Symbolic Logic Tutorial*
- INVITED ADDRESSES**
 1:00PM–2:05PM *AMS Colloquium Lecture I - Svetlana Jitomirskaya, University of California Irvine*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
 1:00PM–2:30PM *AMS Committee on Publications Panel Discussion: Artificial Intelligence and Publishing*

JMM (JOINT MATHEMATICS MEETING)

- 1:00PM–2:30PM *JMM Workshop: Developing Online Mathematics Courses: Strategies to Consider*
- 1:00PM–3:00PM *Professional Enhancement Program (PEP) 1A: Building Conceptual Understanding of Multivariable Calculus using 3D Visualization in CalcPlot3D and 3D-Printed Surfaces*
- 1:00PM–3:00PM *Professional Enhancement Program (PEP) 2A: Leveraging GitHub and AI for Mathematics Research and Teaching*

AMS (AMERICAN MATHEMATICAL SOCIETY)

- 1:00PM–5:00PM *AMS Special Session on Epidemic Modeling: Current Status and Future Directions, I*

AIM (AMERICAN INSTITUTE OF MATHEMATICS)

- 1:00PM–5:00PM *AIM Special Session on Math Circles for Makers, Creators, and Artists, II*

AMS (AMERICAN MATHEMATICAL SOCIETY)

- 1:00PM–5:00PM *AMS Special Session on 35th Anniversary of AI and Math, II*
- 1:00PM–5:00PM *AMS Special Session on Advances in Function Theoretic Operator Theory, II*
- 1:00PM–5:00PM *AMS Special Session on AI meets Cryptography, I*
- 1:00PM–5:00PM *AMS Special Session on Algebraic Statistics in Our Changing World, II*
- 1:00PM–5:00PM *AMS Special Session on Applied Category Theory, II*
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- 1:00PM–5:00PM *AMS Special Session on Topological Machine Learning, II*
- 1:00PM–5:00PM *AMS Special Session on Topological, Algebraic, and Geometric Methods for Safe, Robust, and Explainable Machine Learning, II*
- 1:00PM–5:00PM *AMS-SIMODE Special Session on Modeling Matters in Teaching and Learning Differential Equations, II*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 1:00PM–5:00PM *AWM Special Session on Women in Mathematical Biology, II*
- PMA (PRO MATHEMATICA ARTE)**
- 1:00PM–5:00PM *BSM Special Session: Mathematical Research in Budapest for Students and Faculty*
- CRM-PIMS-AARMS (CENTRE DE RECHERCHES MATHÉMATIQUES/PACIFIC INSTITUTE FOR THE MATHEMATICAL SCIENCES/ATLANTIC ASSOCIATION FOR RESEARCH IN MATHEMATICAL SCIENCES)**
- 1:00PM–5:00PM *CRM-PIMS-AARMS Special Session on Indigenous Voices in Mathematics, II*
- ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)**
- 1:00PM–5:00PM *ILAS Special Session on Matrix Analysis and Applications, II*
- 1:00PM–5:00PM *ILAS Special Session on Strong Properties of Matrix Classes, II*
- SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)**
- 1:00PM–5:00PM *SLMath (MSRI) Special Session on Metric Geometry and Topology, II*
- TPSE (TRANSFORMING POST-SECONDARY EDUCATION)**
- 1:00PM–5:00PM *TPSE Contributed Paper Session on Transformation Models for Inclusive Student Experiences, II*
- MAA (MATHEMATICAL ASSOCIATION OF AMERICA)**
- 1:00PM–6:00PM *MAA Special Session on Fostering Creativity in Undergraduate Mathematics Courses, I*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 1:00PM–6:00PM *SIAM Minisymposium on Modern Uncertainty Quantification in Theory and in Practice*
- MAA (MATHEMATICAL ASSOCIATION OF AMERICA)**
- 1:00PM–6:00PM *SIGMAA Special Session on Undergraduate Research Activities in Mathematical and Computational Biology, I*
- PME (PI MU EPSILON)**
- 1:30PM–2:30PM *PME Panel: What Every Student Should Know about the JMM*
- INVITED ADDRESSES**
- 2:10PM–3:15PM *AMS Invited Address - Mohammed Abouzaid, Stanford University*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 3:00PM–3:30PM *AWM Business Meeting*

- AMS (AMERICAN MATHEMATICAL SOCIETY)**
 3:00PM–4:30PM *AMS Committee on Equity, Diversity and Inclusion Panel Discussion: How can Mathematics and Mathematicians Mitigate Bias and Other Equity, Diversity, and Inclusion Issues in AI*
- JMM (JOINT MATHEMATICS MEETING)**
 3:00PM–4:30PM *JMM Panel on The Mathematics of Mass Incarceration*
- MAA (MATHEMATICAL ASSOCIATION OF AMERICA)**
 3:00PM–4:30PM *MAA Panel: Undergraduate Research in Mathematics for Addressing the Sustainable Development Goals in the Age of AI*
- JMM (JOINT MATHEMATICS MEETING)**
 4:30PM–4:45PM *Ribbon Cutting Ceremony*
- JMM (JOINT MATHEMATICS MEETING)**
 4:45PM–5:45PM *Awards Celebration*
- 6:00PM–8:00PM *Grand Opening Reception*
- JMM (JOINT MATHEMATICS MEETING)**
 6:00PM–8:30PM *Exhibits and Book Sales*
- SOCIAL EVENTS**
 8:45PM–10:00PM *Yearly Gather: Collaborative Puzzle Time!*

Thursday, January 09

- JMM (JOINT MATHEMATICS MEETING)**
 7:30AM–4:00PM *Joint Meetings Registration*
- AIM (AMERICAN INSTITUTE OF MATHEMATICS)**
 8:00AM–12:00PM *AIM Special Session on Math Circles for Makers, Creators, and Artists, III*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
 8:00AM–12:00PM *AMS Special Session on Advances in Numerical Methods for Fluid Dynamics, I*
 8:00AM–12:00PM *AMS Special Session on Advances in Statistical Modeling and Data Analysis, I*
 8:00AM–12:00PM *AMS Special Session on Affine Algebraic Geometry and \mathbb{G}_a -Actions, I*
 8:00AM–12:00PM *AMS Special Session on AI Meets Cryptography, II*
 8:00AM–12:00PM *AMS Special Session on Analysis and Differential Equations at Undergraduate Institutions, I*
 8:00AM–12:00PM *AMS Special Session on Bridging Theory and Practice in Ecological Modeling with Reaction Diffusion Equations, I*
 8:00AM–12:00PM *AMS Special Session on Diversity in Mathematical Biology, I*
 8:00AM–12:00PM *AMS Special Session on Dynamics of Continued Fractions and Related Systems, I*
 8:00AM–12:00PM *AMS Special Session on Geometric and Combinatorial Methods in Deep Learning Theory, I*
 8:00AM–12:00PM *AMS Special Session on Graphs, Hypergraphs, and Extremal Combinatorics, I*
 8:00AM–12:00PM *AMS Special Session on Heegaard Splittings of 3-manifolds and Trisections of 4-manifolds, I*
 8:00AM–12:00PM *AMS Special Session on Homological Interactions Between Commutative and Noncommutative Algebra, I*
 8:00AM–12:00PM *AMS Special Session on Machine Learning to Accelerate Mathematical Discovery, I*
 8:00AM–12:00PM *AMS Special Session on Mathematics, AI, and the Social Context of Our Work, I*

- 8:00AM–12:00PM *AMS Special Session on Modular Forms, Hypergeometric Functions, and Related Topics, I*
- 8:00AM–12:00PM *AMS Special Session on New Faces in Operator Theory, I*
- 8:00AM–12:00PM *AMS Special Session on Non-smooth Analysis and Geometry, I*
- 8:00AM–12:00PM *AMS Special Session on Random Walks on Graphs and Related Parameters, I*
- 8:00AM–12:00PM *AMS Special Session on Recent Advancement in Control Theory and Applications in Artificial Intelligence, I*
- 8:00AM–12:00PM *AMS Special Session on Recent Advancements in Integrable Systems and Orthogonal Polynomials, I*
- 8:00AM–12:00PM *AMS Special Session on Research Results by Mathematicians from the Enhancing Diversity in Graduate Education (EDGE) Program, I*
- 8:00AM–12:00PM *AMS Special Session on Solutions of Probability or Applied Random Process Problems Using Linear Algebraic or Combinatorial Methods, I*
- 8:00AM–12:00PM *AMS Special Session on Spectral Theory and Mathematical Physics, I*
- 8:00AM–12:00PM *AMS Special Session on Spectral Theory of Ergodic Operators and Related Models, II*
- 8:00AM–12:00PM *AMS Special Session on Systemic Change Within and Between K-12 and Post-Secondary Mathematics Education: Improvement for Smooth Transitions and Increased Persistence in Mathematics for All Students, I*
- 8:00AM–12:00PM *AMS Special Session on the Open Neighborhood of Applied Topology, I*
- 8:00AM–12:00PM *AMS Special Session on The Teaching and Learning of Undergraduate Ordinary Differential Equations, I*
- 8:00AM–12:00PM *AMS Special Session on Topological and Algebraic Properties of Additive Manufacturing, I*
- 8:00AM–12:00PM *AMS Special Session on Trends in Coding Theory, I*
- 8:00AM–12:00PM *AMS Special Session on Variational Methods in Quantum Computing, I*
- 8:00AM–12:00PM *AMS-MAA-SIAM Special Session on Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs, I*
- ASL (ASSOCIATION OF SYMBOLIC LOGIC)**
- 8:00AM–12:00PM *ASL Special Session on Combinatorial Set Theory, I*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 8:00AM–12:00PM *AWM Special Session on Exploring Mathematics through the Arts and Pedagogy in Creative Settings, I*
- 8:00AM–12:00PM *AWM Special Session on Women in Mathematical Biology, III*
- COMAP (CONSORTIUM FOR MATHEMATICS AND ITS APPLICATIONS)**
- 8:00AM–12:00PM *COMAP Contributed Paper Session on Technology in Applied Mathematics Courses, I*
- CRM-PIMS-AARMS (CENTRE DE RECHERCHES MATHÉMATIQUES/PACIFIC INSTITUTE FOR THE MATHEMATICAL SCIENCES/ATLANTIC ASSOCIATION FOR RESEARCH IN MATHEMATICAL SCIENCES)**
- 8:00AM–12:00PM *CRM-PIMS-AARMS Special Session on Indigenous Voices in Mathematics, III*
- NAM (NATIONAL ASSOCIATION OF MATHEMATICIANS)**
- 8:00AM–12:00PM *NAM Haynes-Granville-Browne Session of Presentations by Recent Doctoral Recipients, I*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 8:00AM–12:00PM *SIAM Minisymposium on Scientific Machine Learning: Recent Advances and Future Directions, I*

- MAA (MATHEMATICAL ASSOCIATION OF AMERICA)**
8:00AM–12:00PM *SIGMAA Special Session on Mathematics and the Arts, II*
- SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)**
8:00AM–12:00PM *SLMath (MSRI) Special Session on MSRI-UP 2024 Mathematical Endocrinology, I*
- JMM (JOINT MATHEMATICS MEETING)**
8:00AM–5:30PM *Employment Center*
- OTHER ORGANIZATIONS**
8:30AM–10:00AM *Panamanian Foundation for the Promotion of Mathematics (FUNDAPROMAT) Presents—Stories of Resilience in the Mathematical Community*
- MAA (MATHEMATICAL ASSOCIATION OF AMERICA)**
8:30AM–10:00AM *SIGMAA Workshop: Team-worthy Activities for Discrete Mathematics Instruction*
- SPECTRA**
9:00AM–10:50AM *Spectra Workshop: Accessibility & Inclusivity in a Math Classroom: Union & Intersection of LGBTQ+ and Disability*
- JMM (JOINT MATHEMATICS MEETING)**
9:00AM–11:00AM *Professional Enhancement Program (PEP) 5B: Quantum-Accelerated Supercomputing for the Mathematics Classroom*
- 9:00AM–5:00PM *Exhibits and Book Sales*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
9:30AM–11:00AM *Math Meets Policy: Advocating for Change*
- INVITED ADDRESSES**
9:40AM–10:45AM *ILAS Invited Address - Anne Greenbaum, University of Washington*
9:40AM–10:45AM *PME J. Sutherland Frame Lecture - Daniela Witten, University of Washington*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
10:00AM–3:00PM *AMS Career Fair*
- JMM (JOINT MATHEMATICS MEETING)**
10:30AM–12:00PM *JMM Workshop on Engage, Enhance, Educate: Exploring AI-Driven Teaching Strategies and Tools for Tomorrow's Math Classrooms*
- INVITED ADDRESSES**
10:50AM–11:55AM *AIM Alexanderson Award Lecture*
10:50AM–11:55AM *MAA Lecture on Teaching and Learning - Eric Hsu, San Francisco State University*
- PME (PI MU EPSILON)**
11:00AM–12:00PM *PME Panel: What Every Student Should Know about the JMM*
- SPECTRA**
11:10AM–12:00PM *Spectra Career Workshop*
- OTHER ORGANIZATIONS**
1:00PM–2:00PM *W + AM Alumnae Coffee Hour*
- INVITED ADDRESSES**
1:00PM–2:05PM *AMS Colloquium Lecture II - Svetlana Jitomirskaya, University of California Irvine*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
1:00PM–2:30PM *AMS Committee on Education Panel Discussion on Teaching in the Time of Artificial Intelligence*

JMM (JOINT MATHEMATICS MEETING)

1:00PM–2:30PM *JMM Workshop on Artificial Intelligence and Game Theory: An Intersection of Theory and Applications*

MAA (MATHEMATICAL ASSOCIATION OF AMERICA)

1:00PM–2:30PM *MAA Panel: AI Transformed: Navigating the New Landscape for Business, Industry, Government and Education*

JMM (JOINT MATHEMATICS MEETING)

1:00PM–3:00PM *Professional Enhancement Program (PEP) 1B: Building Conceptual Understanding of Multivariable Calculus using 3D Visualization in CalcPlot3D and 3D-Printed Surfaces*

1:00PM–3:00PM *Professional Enhancement Program (PEP) 2B: Leveraging GitHub and AI for Mathematics Research and Teaching*

MAA (MATHEMATICAL ASSOCIATION OF AMERICA)

1:00PM–3:00PM *SIGMAA Contributed Paper Session on Using AI in Mathematics Instruction, I*

OTHER ORGANIZATIONS

1:00PM–3:00PM *SPWM Reunion*

AIM (AMERICAN INSTITUTE OF MATHEMATICS)

1:00PM–5:00PM *AIM Special Session on Alexanderson Award Winners, I*

AMS (AMERICAN MATHEMATICAL SOCIETY)

1:00PM–5:00PM *AMS Special Session on Advances in Numerical Methods for Fluid Dynamics, II*

1:00PM–5:00PM *AMS Special Session on Advances in Statistical Modeling and Data Analysis, II*

1:00PM–5:00PM *AMS Special Session on AI Applications in Health and Medicine, I*

1:00PM–5:00PM *AMS Special Session on AI Meets Cryptography, III*

1:00PM–5:00PM *AMS Special Session on Analysis and Differential Equations at Undergraduate Institutions, II*

1:00PM–5:00PM *AMS Special Session on Bridging Theory and Practice in Ecological Modeling with Reaction Diffusion Equations, II*

1:00PM–5:00PM *AMS Special Session on Conceptual Learning in the Age of AI, I*

1:00PM–5:00PM *AMS Special Session on Diversity in Mathematical Biology, II*

1:00PM–5:00PM *AMS Special Session on Dynamics of Continued Fractions and Related Systems, II*

1:00PM–5:00PM *AMS Special Session on Geometric and Combinatorial Methods in Deep Learning Theory, II*

1:00PM–5:00PM *AMS Special Session on Graphs, Hypergraphs, and Extremal Combinatorics, II*

1:00PM–5:00PM *AMS Special Session on Heegaard Splittings of 3-manifolds and Trisections of 4-manifolds, II*

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1:00PM–5:00PM *AMS Special Session on Machine Learning to Accelerate Mathematical Discovery, II*

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1:00PM–5:00PM *AMS Special Session on New Faces in Operator Theory, II*

1:00PM–5:00PM *AMS Special Session on Non-smooth Analysis and Geometry, II*

1:00PM–5:00PM *AMS Special Session on Random Walks on Graphs and Related Parameters, II*

1:00PM–5:00PM *AMS Special Session on Recent Advancement in Control Theory and Applications in Artificial Intelligence, II*

1:00PM–5:00PM *AMS Special Session on Recent Advancements in Integrable Systems and Orthogonal Polynomials, II*

- 1:00PM–5:00PM *AMS Special Session on Research Results by Mathematicians from the Enhancing Diversity in Graduate Education (EDGE) Program, II*
- 1:00PM–5:00PM *AMS Special Session on Solutions of Probability or Applied Random Process Problems Using Linear Algebraic or Combinatorial Methods, II*
- 1:00PM–5:00PM *AMS Special Session on Spectral Theory and Mathematical Physics, II*
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- 1:00PM–5:00PM *AMS Special Session on Variational Methods in Quantum Computing, II*
- 1:00PM–5:00PM *AMS-MAA-SIAM Special Session on Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs, II*
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- 1:00PM–5:00PM *ASL Special Session on Combinatorial Set Theory, II*
- COMAP (CONSORTIUM FOR MATHEMATICS AND ITS APPLICATIONS)**
- 1:00PM–5:00PM *COMAP Contributed Paper Session on Technology in Applied Mathematics Courses, II*
- ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)**
- 1:00PM–5:00PM *ILAS Special Session on Innovative and Effective Ways to Teach Linear Algebra, I*
- 1:00PM–5:00PM *ILAS Special Session on Inverse Spectral Problems for Nonnegative Matrices, I*
- MAA (MATHEMATICAL ASSOCIATION OF AMERICA)**
- 1:00PM–5:00PM *MAA Special Session on Assessment Practices that Support Equity and Inclusion, II*
- NAM (NATIONAL ASSOCIATION OF MATHEMATICIANS)**
- 1:00PM–5:00PM *NAM Haynes-Granville-Browne Session of Presentations by Recent Doctoral Recipients, II*
- PME (PI MU EPSILON)**
- 1:00PM–5:00PM *PME Contributed Session on Research by Undergraduates, I*
- 1:00PM–5:00PM *PME Contributed Session on Research by Undergraduates, II*
- 1:00PM–5:00PM *PME Contributed Session on Research by Undergraduates, III*
- 1:00PM–5:00PM *PME Contributed Session on Research by Undergraduates, IV*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 1:00PM–5:00PM *SIAM Minisymposium on Scientific Machine Learning: Recent Advances and Future Directions, II*
- SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)**
- 1:00PM–5:00PM *SLMath (MSRI) Special Session on MSRI-UP 2024 Mathematical Endocrinology, II*
- INVITED ADDRESSES**
- 2:10PM–3:15PM *NAM Claytor-Woodard Lecture*
- 2:10PM–3:15PM *The Spectra Lavender Lecture - Emmy Murphy, University of Toronto, Mississauga*
- NSF (NATIONAL SCIENCE FOUNDATION)**
- 2:30PM–5:00PM *NSF Special Session on Exploring Funding Opportunities in the Division of Mathematical Sciences, I*

AMS (AMERICAN MATHEMATICAL SOCIETY)3:00PM–4:30PM *AMS Fireside CEO Chat*3:00PM–4:30PM *Joint Committee on Women Panel Discussion***TPSE (TRANSFORMING POST-SECONDARY EDUCATION)**3:00PM–4:30PM *TPSE Panel: Practices of Effective Mathematics Departments***INVITED ADDRESSES**3:20PM–4:25PM *ASA Invited Address - Bonnie Ghosh-Dastidar, RAND Statistics Group*3:20PM–4:25PM *AWM-AMS Noether Lecture - Neena Gupta, Indian Statistical Institute***INVITED ADDRESSES**5:00PM–6:00PM *AMS Josiah Willard Gibbs Lecture - Yann LeCun, Meta***SOCIAL EVENTS**6:00PM–7:00PM *American Statistical Association's Invited Address Reception*6:00PM–7:30PM *ACMS Reception*6:00PM–7:30PM *University of Wisconsin-Madison Alumni and Friends Reception*6:00PM–8:00PM *Mathematical Institutes Open House*6:00PM–8:00PM *Spectra's Annual Reception for LGBTQ+ Mathematicians*7:00PM–8:30PM *UW Math Alumni Gathering*7:00PM–9:00PM *Society for Industrial and Applied Mathematics (SIAM) Reception on Industrial Math Modeling*8:00PM–9:30PM *American Institute of Mathematics Math Circles Dessert and Games Night Reception*8:15PM–9:45PM *Knitting Circle***Friday, January 10****JMM (JOINT MATHEMATICS MEETING)**7:30AM–4:00PM *Joint Meetings Registration***AMS (AMERICAN MATHEMATICAL SOCIETY)**8:00AM–11:00AM *AMS Graduate School Fair***SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**8:00AM–11:00AM *SIAM Minisymposium on Mathematical Perspectives on Generative Modeling, I*8:00AM–11:00AM *SIAM Minisymposium on Reduced Order Models for Convection-Dominated Flows: Modeling, Analysis, and Simulation, I***AIM (AMERICAN INSTITUTE OF MATHEMATICS)**8:00AM–12:00PM *AIM Special Session on Little School Dynamics: Cool Research by Researchers at PUIs, I***AMS (AMERICAN MATHEMATICAL SOCIETY)**8:00AM–12:00PM *AMS Special Session on Advances in Modeling and Analysis in Life Sciences, I*8:00AM–12:00PM *AMS Special Session on Advances in Nonlinear Dispersive and Kinetic Equations, I*8:00AM–12:00PM *AMS Special Session on Advances in Operator Algebras, I*8:00AM–12:00PM *AMS Special Session on Affine Algebraic Geometry and \mathbb{G}_a -Actions, II*8:00AM–12:00PM *AMS Special Session on AI for the Working Mathematician, I*8:00AM–12:00PM *AMS Special Session on Algebraic Methods in Machine Learning and Optimization, I*

- 8:00AM–12:00PM *AMS Special Session on Algorithmic Approaches for Promoting Fairness in ML, I*
- 8:00AM–12:00PM *AMS Special Session on Coloring Problems in Combinatorics, I*
- 8:00AM–12:00PM *AMS Special Session on Data Fusion Methods, Modeling, and Applications, I*
- 8:00AM–12:00PM *AMS Special Session on Descriptive Combinatorics, Dynamics, and Measured Group Theory, I*
- 8:00AM–12:00PM *AMS Special Session on Dynamic Horizons in Mathematical Biology and Ecology: Current Insights and Future Prospects, I*
- 8:00AM–12:00PM *AMS Special Session on Extremal Combinatorics and Random Discrete Structures, I*
- 8:00AM–12:00PM *AMS Special Session on Fractal Geometry with Applications to Analysis, Number Theory and Mathematical Physics, I*
- 8:00AM–12:00PM *AMS Special Session on Geometric PDE and Mathematical Physics, I*
- 8:00AM–12:00PM *AMS Special Session on Homotopy Theory, I*
- 8:00AM–12:00PM *AMS Special Session on Inverse Problems and Harmonic Analysis, I*
- 8:00AM–12:00PM *AMS Special Session on Mathematics of Decisions, Elections, and Games, I*
- 8:00AM–12:00PM *AMS Special Session on Mathematical Quantum Chaos, I*
- 8:00AM–12:00PM *AMS Special Session on Mathematics Informed by Computing, I*
- 8:00AM–12:00PM *AMS Special Session on Mathematics of Topological Insulators, I*
- 8:00AM–12:00PM *AMS Special Session on Modeling and Optimization on Graph-Structured Data, I*
- 8:00AM–12:00PM *AMS Special Session on New Developments in Noncommutative Algebra, I*
- 8:00AM–12:00PM *AMS Special Session on Recent Advances in Potential Theory and Partial Differential Equations, I*
- 8:00AM–12:00PM *AMS Special Session on Research Presentations by Math Alliance Scholar Doctorates, I*
- 8:00AM–12:00PM *AMS Special Session on Results on Curves and Surfaces Inspired by Experiments, I*
- 8:00AM–12:00PM *AMS Special Session on Rethinking Number Theory: Highlighting the Research and Discussions of the RNT Workshops, I*
- 8:00AM–12:00PM *AMS Special Session on SoTL: Connecting Generative AI and Scholarly Inquiry to Improve Teaching and Learning, I*
- 8:00AM–12:00PM *AMS Special Session on Sparse Graphs: Colorings, Randomness, and Ramsey Theory, I*
- 8:00AM–12:00PM *AMS Special Session on Spectral Theory of Ergodic Operators and Related Models, III*
- 8:00AM–12:00PM *AMS Special Session on The Euler Water Wave Problem, I*
- 8:00AM–12:00PM *AMS Special Session on Tools and Methods of Compassionate Math, I*
- 8:00AM–12:00PM *AMS Special Session on Topology and Geometry Aspect of Deep Learning, I*
- 8:00AM–12:00PM *AMS Special Session on Trustworthy AI Applications Including Machine Learning, PINN, and Inverse Problems, I*
- 8:00AM–12:00PM *AMS-MAA-SIGMAA Special Session on Exemplar Mathematics Departments Supporting PK–12 Mathematics Teachers, I*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 8:00AM–12:00PM *AWM Special Session on AWM Purdue Chapter: Over a Decade of Empowering Women in Math, I*
- COMAP (CONSORTIUM FOR MATHEMATICS AND ITS APPLICATIONS)**
- 8:00AM–12:00PM *COMAP Special Session on Tales of Survival and Triumph from Mathematical Modeling Contest Participants, I*

ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)

8:00AM–12:00PM *ILAS Special Session on 05C50 Offline, I*

NSF (NATIONAL SCIENCE FOUNDATION)

8:00AM–12:00PM *NSF Special Session on Outcomes and Innovations from NSF Undergraduate Education Programs in the Mathematical Sciences, I*

PME (PI MU EPSILON)

8:00AM–12:00PM *PME Contributed Session on Research by Undergraduates, V*

8:00AM–12:00PM *PME Contributed Session on Research by Undergraduates, VI*

8:00AM–12:00PM *PME Contributed Session on Research by Undergraduates, VII*

8:00AM–12:00PM *PME Contributed Session on Research by Undergraduates, VIII*

MAA (MATHEMATICAL ASSOCIATION OF AMERICA)

8:00AM–12:00PM *SIGMAA Special Session on Philosophy of Mathematics, I*

8:00AM–12:00PM *SIGMAA Special Session on Research in Undergraduate Mathematics Education, I*

SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)

8:00AM–12:00PM *SLMath (MSRI) Special Session on ADJOINT Mathematics Working Groups, I*

SPECTRA

8:00AM–12:00PM *Spectra Special Session on Research by LGBTQ+ Mathematicians, I*

JMM (JOINT MATHEMATICS MEETING)

8:00AM–5:30PM *Employment Center*

INVITED ADDRESSES

8:30AM–9:35AM *TPSE Invited Address - Joan Ferrini-Mundy, University of Maine*

AMS (AMERICAN MATHEMATICAL SOCIETY)

8:30AM–10:00AM *AMS BEGIN Sponsors Panel*

AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)

8:30AM–10:00AM *AWM Workshop: EvenQuads Translate-a-Thon*

JMM (JOINT MATHEMATICS MEETING)

8:30AM–10:00AM *JMM Panel on Data Science in Undergraduate Mathematics Classrooms: Why and How?*

INVITED ADDRESSES

9:00AM–10:00AM *ASL Invited Address - Maria-Florina Balcan, Carnegie Mellon University*

9:00AM–10:00AM *MAA-SIAM-AMS Hrabowski-Gates-Tapia-McBay Lecture by Victor Moll, Tulane University*

JMM (JOINT MATHEMATICS MEETING)

9:00AM–11:00AM *Professional Enhancement Program (PEP) 3A: Mentoring for Equity: Accounting for Identity and Culture in Our Most Important of Relationships*

9:00AM–5:00PM *Exhibits and Book Sales*

INVITED ADDRESSES

9:40AM–10:45AM *CRM-PIMS-AARMS Invited Address - Wilfrid Gangbo, UCLA*

10:00AM–10:50AM *SIAM-AMS Hrabowski-Gates-Tapia-McBay Panel on Expanding Access to Mathematics Research Opportunities*

10:00AM–11:00AM *ASL Invited Address - Anton Bernshateyn, UCLA*

JMM (JOINT MATHEMATICS MEETING)

10:30AM–12:00PM *JMM Workshop on Entrepreneurial Mindset in Teaching Mathematics*

- 10:30AM–12:00PM **MAA (MATHEMATICAL ASSOCIATION OF AMERICA)**
SIGMAA Panel: Navigating the Frontier: Statistics, Data Science, and AI in the First Two Years of College
- INVITED ADDRESSES**
- 10:50AM–11:55AM *AAAS-AMS Invited Address*
- 11:00AM–12:00PM **AMS (AMERICAN MATHEMATICAL SOCIETY)**
AMS Information Session on an Overview of the IGEN Mathematics Initiative
- INVITED ADDRESSES**
- 11:00AM–12:05PM *SIAM Invited Address - Steven Lee, DOE Office of Science*
- PME (PI MU EPSILON)**
- 12:00PM–1:30PM *AMS - PME Undergraduate Student Poster Session, I*
- INVITED ADDRESSES**
- 1:00PM–2:00PM *ASL Invited Address - Alexi Block Gorman, Ohio State University*
- 1:00PM–2:05PM *AMS Colloquium Lecture III - Svetlana Jitomirskaya, University of California Irvine*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
- 1:00PM–2:30PM *AMS Committee on the Profession Panel Discussion: AI tools for Mathematical Reasoning: What is the Current Status, Outlook for the Future, and Impact on the Mathematics Profession?*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 1:00PM–2:30PM *AWM Panel: The Intersection of AI and Women+ in the Mathematical Sciences*
- JMM (JOINT MATHEMATICS MEETING)**
- 1:00PM–3:00PM *Professional Enhancement Program (PEP) 4A: Formalization in the Lean Theorem Prover*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 1:00PM–3:00PM *SIAM Minisymposium on Mathematical Perspectives on Generative Modeling, II*
- SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)**
- 1:00PM–4:00PM *SLMath (MSRI) Special Session on ADJOINT Mathematics Working Groups, II*
- AIM (AMERICAN INSTITUTE OF MATHEMATICS)**
- 1:00PM–5:00PM *AIM Special Session on Little School Dynamics: Cool Research by Researchers at PUIs, II*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 1:00PM–5:00PM *AWM Special Session on AWM Purdue Chapter: Over a Decade of Empowering Women in Math, II*
- CRM-PIMS-AARMS (CENTRE DE RECHERCHES MATHÉMATIQUES/PACIFIC INSTITUTE FOR THE MATHEMATICAL SCIENCES/ATLANTIC ASSOCIATION FOR RESEARCH IN MATHEMATICAL SCIENCES)**
- 1:00PM–5:00PM *CRM-PIMS-AARMS Special Session on Optimal Transport—Theory and Applications, I*
- ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)**
- 1:00PM–5:00PM *ILAS Special Session on 05C50 Offline, II*
- 1:00PM–5:00PM *ILAS Special Session on Inverse Spectral Problems for Nonnegative Matrices, II*
- NSF (NATIONAL SCIENCE FOUNDATION)**
- 1:00PM–5:00PM *NSF Special Session on Outcomes and Innovations from NSF Undergraduate Education Programs in the Mathematical Sciences, II*
- SPECTRA**
- 1:00PM–5:00PM *Spectra Special Session on Research by LGBTQ+ Mathematicians, II*

AMS (AMERICAN MATHEMATICAL SOCIETY)

- 1:00PM–6:00PM *AMS Special Session on Advances in Modeling and Analysis in Life Sciences, II*
- 1:00PM–6:00PM *AMS Special Session on Advances in Nonlinear Dispersive and Kinetic Equations, II*
- 1:00PM–6:00PM *AMS Special Session on Advances in Operator Algebras, II*
- 1:00PM–6:00PM *AMS Special Session on Affine Algebraic Geometry and \mathbb{G}_a -Actions, III*
- 1:00PM–6:00PM *AMS Special Session on Algebraic Methods in Machine Learning and Optimization, II*
- 1:00PM–6:00PM *AMS Special Session on Coloring Problems in Combinatorics, II*
- 1:00PM–6:00PM *AMS Special Session on Computational Biomedicine: Emerging Methods and Applications, I*
- 1:00PM–6:00PM *AMS Special Session on Current Directions on Modular Forms: in Twenty Minutes Snippets, I*
- 1:00PM–6:00PM *AMS Special Session on Data Fusion Methods, Modeling, and Applications, II*
- 1:00PM–6:00PM *AMS Special Session on Descriptive Combinatorics, Dynamics, and Measured Group Theory, II*
- 1:00PM–6:00PM *AMS Special Session on Dynamic Horizons in Mathematical Biology and Ecology: Current Insights and Future Prospects, II*
- 1:00PM–6:00PM *AMS Special Session on Extremal Combinatorics and Random Discrete Structures, II*
- 1:00PM–6:00PM *AMS Special Session on Fractal Geometry with Applications to Analysis, Number Theory and Mathematical Physics, II*
- 1:00PM–6:00PM *AMS Special Session on Geometric PDE and Mathematical Physics, II*
- 1:00PM–6:00PM *AMS Special Session on History of Mathematics, I*
- 1:00PM–6:00PM *AMS Special Session on Incorporating Programming in Non-Programming Math Courses, I*
- 1:00PM–6:00PM *AMS Special Session on Inverse Problems and Harmonic Analysis, II*
- 1:00PM–6:00PM *AMS Special Session on Mathematics of Decisions, Elections, and Games, II*
- 1:00PM–6:00PM *AMS Special Session on Mathematical Quantum Chaos, II*
- 1:00PM–6:00PM *AMS Special Session on Mathematics Informed by Computing, II*
- 1:00PM–6:00PM *AMS Special Session on Mathematics of Topological Insulators, II*
- 1:00PM–6:00PM *AMS Special Session on Mathematics, AI, and the Social Context of Our Work, II*
- 1:00PM–6:00PM *AMS Special Session on Modeling and Optimization on Graph-Structured Data, II*
- 1:00PM–6:00PM *AMS Special Session on New Developments in Noncommutative Algebra, II*
- 1:00PM–6:00PM *AMS Special Session on Recent Advances in Potential Theory and Partial Differential Equations, II*
- 1:00PM–6:00PM *AMS Special Session on Research Presentations by Math Alliance Scholar Doctorates, II*
- 1:00PM–6:00PM *AMS Special Session on Results on Curves and Surfaces Inspired by Experiments, II*
- 1:00PM–6:00PM *AMS Special Session on Rethinking Number Theory: Highlighting the Research and Discussions of the RNT Workshops, II*
- 1:00PM–6:00PM *AMS Special Session on SoTL: Connecting Generative AI and Scholarly Inquiry to Improve Teaching and Learning, II*
- 1:00PM–6:00PM *AMS Special Session on Sparse Graphs: Colorings, Randomness, and Ramsey Theory, II*
- 1:00PM–6:00PM *AMS Special Session on The Euler Water Wave Problem, II*
- 1:00PM–6:00PM *AMS Special Session on Tools and Methods of Compassionate Math, II*
- 1:00PM–6:00PM *AMS Special Session on Topology and Geometry Aspect of Deep Learning, II*

- 1:00PM–6:00PM *AMS Special Session on Trustworthy AI Applications Including Machine Learning, PINN, and Inverse Problems, II*
- 1:00PM–6:00PM *AMS-MAA-SIGMAA Special Session on Exemplar Mathematics Departments Supporting PK–12 Mathematics Teachers, II*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 1:00PM–6:00PM *SIAM Minisymposium on Mathematical Foundations of Climate and Earth System Modeling*
- MAA (MATHEMATICAL ASSOCIATION OF AMERICA)**
- 1:00PM–6:00PM *SIGMAA Special Session on Mathematics and the Arts, III*
- INVITED ADDRESSES**
- 2:00PM–3:00PM *ASL Invited Address - Theodore A. Slaman, University of California, Berkeley*
- 2:00PM–6:00PM *AMS Current Events Bulletin*
- 2:10PM–3:15PM *AMS Invited Address - Kirsten Wickelgren, Duke University*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
- 2:30PM–4:00PM *AMS Committee on Science Policy Panel Discussion on Artificial Intelligence and the Future of the Mathematical Sciences*
- JMM (JOINT MATHEMATICS MEETING)**
- 3:00PM–4:30PM *JMM Workshop on Advances in Neural Operators and Uncertainty Quantification for Scientific Modeling*
- TPSE (TRANSFORMING POST-SECONDARY EDUCATION)**
- 3:00PM–4:30PM *TPSE Panel: The Impact of AI in the Mathematics Curriculum, Teaching, and Research*
- ASL (ASSOCIATION OF SYMBOLIC LOGIC)**
- 3:00PM–5:00PM *ASL Contributed Paper Session, I*
- INVITED ADDRESSES**
- 3:20PM–4:25PM *AMS Maryam Mirzakhani Lecture - Alexander Wright, University of Michigan*
- PME (PI MU EPSILON)**
- 3:30PM–5:00PM *AMS - PME Undergraduate Student Poster Session, II*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 3:30PM–5:30PM *SIAM Minisymposium on Reduced Order Models for Convection-Dominated Flows: Modeling, Analysis, and Simulation, II*
- COMAP (CONSORTIUM FOR MATHEMATICS AND ITS APPLICATIONS)**
- 4:00PM–5:00PM *COMAP Workshop: Become a COMAP MCM/ICM Judge: Who, What, When, Where, & Why*
- SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)**
- 4:00PM–5:00PM *SLMath (MSRI) Panel: The Sursolid of ADJOINT: The First Five Years*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 4:00PM–5:30PM *AWM Workshop Poster Presentations*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
- 4:30PM–5:30PM *AMS DC-Based Policy & Communications Opportunities*
- SOCIAL EVENTS**
- 5:00PM–6:30PM *Association for Women in Mathematics Reception and Award Presentation*
- 5:30PM–7:30PM *Texas A & M University Department of Mathematics Reception*

INVITED ADDRESSES

5:45PM–6:45PM *POMSIGMAA Guest Lecture - Dr. Rajesh Kasturiragan, Socratus Foundation*

OTHER ORGANIZATIONS

6:00PM–7:00PM *Mathematically Bent Theater*

SOCIAL EVENTS

6:00PM–7:30PM *SLMath (MSRI) Reception for Current and Future Donors*

6:00PM–8:00PM *Tufts University Reception*

6:00PM–8:00PM *Undergraduate Student Reception*

6:00PM–9:00PM *NAM Reception and Banquet*

INVITED ADDRESSES

7:45PM–8:45PM *NAM Cox-Talbot Address*

Saturday, January 11

JMM (JOINT MATHEMATICS MEETING)

7:30AM–12:00PM *Joint Meetings Registration*

SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)

8:00AM–11:30AM *SLMath (MSRI) Special Session on the Intersection of Harmonic Analysis and Fractal Geometry, I*

AIM (AMERICAN INSTITUTE OF MATHEMATICS)

8:00AM–12:00PM *AIM Special Session on Applications and Generalizations of Zero Forcing, I*

8:00AM–12:00PM *AIM Special Session on Pedagogical Practices in Math Circles and Other Non-Traditional, Informal, and Recreational Math Spaces, I*

AMS (AMERICAN MATHEMATICAL SOCIETY)

8:00AM–12:00PM *AMS Special Session on Applications of Algebraic Geometry, I*

8:00AM–12:00PM *AMS Special Session on Applied and Computational Commutative Algebra, I*

8:00AM–12:00PM *AMS Special Session on Approximate Models of Fluid Motion, I*

8:00AM–12:00PM *AMS Special Session on Artificial Intelligence Meets Computational Mathematics for Biological and Ecological Applications, I*

8:00AM–12:00PM *AMS Special Session on Categorical Generalizations of Conditionalization, I*

8:00AM–12:00PM *AMS Special Session on Combinatorial and Probabilistic Methods in Group Theory, I*

8:00AM–12:00PM *AMS Special Session on Combinatorics and Graph Theory in Honor of Dr. Peter Johnson, I*

8:00AM–12:00PM *AMS Special Session on Concordance and Cobordism in Low Dimensions, I*

8:00AM–12:00PM *AMS Special Session on Control Theory and Artificial Intelligence, I*

8:00AM–12:00PM *AMS Special Session on Cryptography and Related Fields, I*

8:00AM–12:00PM *AMS Special Session on Current Directions on Modular Forms: in Twenty Minutes Snippets, II*

8:00AM–12:00PM *AMS Special Session on Ecological and Evolutionary Models in Biology and Epidemiology, I*

8:00AM–12:00PM *AMS Special Session on Extremal and Probabilistic Combinatorics, I*

8:00AM–12:00PM *AMS Special Session on Financial Mathematics, I*

8:00AM–12:00PM *AMS Special Session on Function Spaces and Their Applications, I*

8:00AM–12:00PM *AMS Special Session on Generative AI for Improving Instructional Productivity, I*

- 8:00AM–12:00PM *AMS Special Session on Geometric and Topological Combinatorics, I*
- 8:00AM–12:00PM *AMS Special Session on Geometry and Machine Learning, I*
- 8:00AM–12:00PM *AMS Special Session on History of Mathematics, II*
- 8:00AM–12:00PM *AMS Special Session on Homotopy Theory, II*
- 8:00AM–12:00PM *AMS Special Session on L-functions, Automorphic Forms, and Their Applications, I*
- 8:00AM–12:00PM *AMS Special Session on Mathematical Quantum Chaos, III*
- 8:00AM–12:00PM *AMS Special Session on Mathematics at Federally Funded Research and Development Centers (FFRDC), I*
- 8:00AM–12:00PM *AMS Special Session on New Directions in Harmonic Analysis, I*
- 8:00AM–12:00PM *AMS Special Session on Nonlinear Algebraic Methods in Artificial Intelligence and Machine Learning, I*
- 8:00AM–12:00PM *AMS Special Session on Operators in Inverse Problems, Differential Equations, and Machine Learning, I*
- 8:00AM–12:00PM *AMS Special Session on Quaternions, I*
- 8:00AM–12:00PM *AMS Special Session on Recent Developments in PDEs and Related Areas, I*
- 8:00AM–12:00PM *AMS Special Session on Take the i Road: Welcoming Complex Numbers and Viewpoints Across the Undergraduate Curriculum, I*
- 8:00AM–12:00PM *AMS Special Session on The Convergence of AI, Math, and Statistics in Biomedical Research, I*
- 8:00AM–12:00PM *AMS Special Session on Using 3D-Printed and Other Digitally-Fabricated Objects in the Mathematics Classroom, I*
- 8:00AM–12:00PM *AMS Special Session on Vector Bundles and Quantization, I*
- 8:00AM–12:00PM *AMS-ASA-SIAM Special Session on Mathematics of Deep Learning: A High-Dimensional Probability Perspective, I*
- 8:00AM–12:00PM *AMS-MAA-SIAM Special Session on Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs, III*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 8:00AM–12:00PM *AWM Special Session on Women in Groups, Geometry, and Dynamics, I*
- 8:00AM–12:00PM *AWM Special Session on Women in Operator Algebras, I*
- CRM-PIMS-AARMS (CENTRE DE RECHERCHES MATHÉMATIQUES/PACIFIC INSTITUTE FOR THE MATHEMATICAL SCIENCES/ATLANTIC ASSOCIATION FOR RESEARCH IN MATHEMATICAL SCIENCES)**
- 8:00AM–12:00PM *CRM-PIMS-AARMS Special Session on Optimal Transport—Theory and Applications, II*
- ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)**
- 8:00AM–12:00PM *ILAS Special Session on Preserver Problems, I*
- 8:00AM–12:00PM *ILAS Special Session on Randomness in Numerical Linear Algebra, I*
- NSF (NATIONAL SCIENCE FOUNDATION)**
- 8:00AM–12:00PM *NSF Special Session on Outcomes and Innovations from NSF Undergraduate Education Programs in the Mathematical Sciences, III*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 8:00AM–12:00PM *SIAM Minisymposium on Navigating the Future of Higher Education: The Role of AI in Teaching, Research, and Extension*

MAA (MATHEMATICAL ASSOCIATION OF AMERICA)

8:00AM–12:00PM *SIGMAA Contributed Paper Session on Using AI in Mathematics Instruction, II*

8:00AM–12:00PM *SIGMAA Special Session on Undergraduate Research Activities in Mathematical and Computational Biology, II*

TPSE (TRANSFORMING POST-SECONDARY EDUCATION)

8:00AM–12:00PM *TPSE Workshop: Teaching and Managing Large Undergraduate Mathematics Courses in a Changing World*

JMM (JOINT MATHEMATICS MEETING)

8:30AM–10:00AM *JMM Panel on The Role of Technology in Linear Algebra Education*

INVITED ADDRESSES

9:00AM–10:00AM *ASL Invited Address - Daniel Turetsky, Victoria University of Wellington*

JMM (JOINT MATHEMATICS MEETING)

9:00AM–11:00AM *Professional Enhancement Program (PEP) 3B: Mentoring for Equity: Accounting for Identity and Culture in Our Most Important of Relationships*

JRMF (JULIA ROBINSON MATHEMATICS FESTIVAL)

9:00AM–12:00PM *Julia Robinson Math Festival*

JMM (JOINT MATHEMATICS MEETING)

9:00AM–2:00PM *Exhibits and Book Sales*

COMAP (CONSORTIUM FOR MATHEMATICS AND ITS APPLICATIONS)

9:00AM–3:00PM *COMAP Workshop on Modeling for Educators: Introducing All Students to Modeling*

INVITED ADDRESSES

9:40AM–10:45AM *AMS Lecture on Education - Pamela Harris, University of Wisconsin-Milwaukee*

10:00AM–11:00AM *ASL Invited Address - Jinhe Ye, University of Oxford*

MAA (MATHEMATICAL ASSOCIATION OF AMERICA)

10:30AM–12:00PM *MAA Panel: Teaching and Learning Calculus in an AI World*

INVITED ADDRESSES

10:50AM–11:55AM *JPBM Communications Award Lecture*

SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)

11:30AM–1:00PM *SLMath (MSRI) & NAM: Film World Premiere of George Csicsery's "Journeys of Black Mathematicians: Part 2" and Panel Discussion*

AMS (AMERICAN MATHEMATICAL SOCIETY)

1:00PM–2:00PM *AMS Business Meeting*

INVITED ADDRESSES

1:00PM–2:00PM *ASL Invited Address - Andy Zucker, University of Waterloo*

JMM (JOINT MATHEMATICS MEETING)

1:00PM–2:30PM *JMM Workshop on Reimagining Exams to Focus on Meaningful Learning and Disrupt the Dominant Grade-Focused Culture*

TPSE (TRANSFORMING POST-SECONDARY EDUCATION)

1:00PM–2:30PM *TPSE Panel: Aligning Mathematics Options with Students' Aspirations in Grades 11–14*

JMM (JOINT MATHEMATICS MEETING)

1:00PM–3:00PM *Professional Enhancement Program (PEP) 4B: Formalization in the Lean Theorem Prover*

AIM (AMERICAN INSTITUTE OF MATHEMATICS)

1:00PM–5:00PM *AIM Special Session on Applications and Generalizations of Zero Forcing, II*

1:00PM–5:00PM *AIM Special Session on Pedagogical Practices in Math Circles and Other Non-Traditional, Informal, and Recreational Math Spaces, II*

ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)

1:00PM–5:00PM *ILAS Special Session on Preserver Problems, II*

1:00PM–5:00PM *ILAS Special Session on Randomness in Numerical Linear Algebra, II*

AMS (AMERICAN MATHEMATICAL SOCIETY)

1:00PM–6:00PM *AMS Special Session on Applications of Algebraic Geometry, II*

1:00PM–6:00PM *AMS Special Session on Applied and Computational Commutative Algebra, II*

1:00PM–6:00PM *AMS Special Session on Approximate Models of Fluid Motion, II*

1:00PM–6:00PM *AMS Special Session on Categorical Generalizations of Conditionalization, II*

1:00PM–6:00PM *AMS Special Session on Combinatorial and Probabilistic Methods in Group Theory, II*

1:00PM–6:00PM *AMS Special Session on Combinatorics and Graph Theory in Honor of Dr. Peter Johnson, II*

1:00PM–6:00PM *AMS Special Session on Concordance and Cobordism in Low Dimensions, II*

1:00PM–6:00PM *AMS Special Session on Control Theory and Artificial Intelligence, II*

1:00PM–6:00PM *AMS Special Session on Cryptography and Related Fields, II*

1:00PM–6:00PM *AMS Special Session on Current Directions on Modular Forms: in Twenty Minutes Snippets, III*

1:00PM–6:00PM *AMS Special Session on Ecological and Evolutionary Models in Biology and Epidemiology, II*

1:00PM–6:00PM *AMS Special Session on Emerging Geometric and Topological Machine Learning Methods in Mathematical and Computational Oncology, I*

1:00PM–6:00PM *AMS Special Session on Extremal and Probabilistic Combinatorics, II*

1:00PM–6:00PM *AMS Special Session on Financial Mathematics, II*

1:00PM–6:00PM *AMS Special Session on Function Spaces and Their Applications, II*

1:00PM–6:00PM *AMS Special Session on Generative AI for Improving Instructional Productivity, II*

1:00PM–6:00PM *AMS Special Session on Geometric and Topological Combinatorics, II*

1:00PM–6:00PM *AMS Special Session on Geometry and Machine Learning, II*

1:00PM–6:00PM *AMS Special Session on History of Mathematics, III*

1:00PM–6:00PM *AMS Special Session on Homotopy Theory, III*

1:00PM–6:00PM *AMS Special Session on L-functions, Automorphic Forms, and Their Applications, II*

1:00PM–6:00PM *AMS Special Session on Mathematics and Sports, I*

1:00PM–6:00PM *AMS Special Session on Mathematics at Federally Funded Research and Development Centers (FFRDC), II*

1:00PM–6:00PM *AMS Special Session on New Directions in Harmonic Analysis, II*

1:00PM–6:00PM *AMS Special Session on Nonlinear Algebraic Methods in Artificial Intelligence and Machine Learning, II*

1:00PM–6:00PM *AMS Special Session on Operators in Inverse Problems, Differential Equations, and Machine Learning, II*

1:00PM–6:00PM *AMS Special Session on Quaternions, II*

- 1:00PM–6:00PM *AMS Special Session on Recent Developments in PDEs and Related Areas, II*
- 1:00PM–6:00PM *AMS Special Session on Take the i Road: Welcoming Complex Numbers and Viewpoints Across the Undergraduate Curriculum, II*
- 1:00PM–6:00PM *AMS Special Session on The Convergence of AI, Math, and Statistics in Biomedical Research, II*
- 1:00PM–6:00PM *AMS Special Session on Using 3D-Printed and Other Digitally-Fabricated Objects in the Mathematics Classroom, II*
- 1:00PM–6:00PM *AMS Special Session on Vector Bundles and Quantization, II*
- 1:00PM–6:00PM *AMS-ASA-SIAM Special Session on Mathematics of Deep Learning: A High-Dimensional Probability Perspective, II*
- 1:00PM–6:00PM *AMS-MAA-SIAM Special Session on Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs, IV*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 1:00PM–6:00PM *SIAM Minisymposium on Geometric Mechanics Formulations and Structure-Preserving Discretizations for Models of Physical Systems*
- MAA (MATHEMATICAL ASSOCIATION OF AMERICA)**
- 1:00PM–6:00PM *SIGMAA Special Session on Mathematics and the Arts, IV*
- 1:00PM–6:00PM *SIGMAA Special Session on Undergraduate Research Activities in Mathematical and Computational Biology, III*
- SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)**
- 1:00PM–6:00PM *SLMath (MSRI) Special Session on the Intersection of Harmonic Analysis and Fractal Geometry, II*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 1:30PM–6:00PM *AWM Special Session on Women in Groups, Geometry, and Dynamics, II*
- 1:30PM–6:00PM *AWM Special Session on Women in Operator Algebras, II*
- JMM (JOINT MATHEMATICS MEETING)**
- 2:00PM–3:30PM *JMM Panel on Fields of Success: Math Alliance Scholars Tell their Stories from Undergraduate to Graduate and Beyond*
- INVITED ADDRESSES**
- 2:15PM–3:20PM *AMS-MAA-SIAM Gerald and Judith Porter Public Lecture - Ravi Vakil, Stanford University*
- JMM (JOINT MATHEMATICS MEETING)**
- 3:00PM–4:30PM *JMM Workshop: High School Mathematics Reimagined*
- TPSE (TRANSFORMING POST-SECONDARY EDUCATION)**
- 3:00PM–4:30PM *TPSE Panel: Tools for Supporting Conversations About Teaching*
- INVITED ADDRESSES**
- 3:20PM–4:25PM *AMS Invited Address - Semyon Dyatlov, MIT*