

SUMMER GRADUATE SCHOOLS

2025

SLMath Summer Graduate Schools are residential programs (usually two weeks in length) for graduate students from SLMath Academic Sponsors and other U.S. institutions, providing students with the opportunity to learn from the top researchers in their fields.

SUMMER 2025 · BERKELEY, CA & WORLDWIDE Simons Laufer Mathematical Sciences Institute (SLMath)

SLMath (formerly known as MSRI) will host 12 Summer Graduate Schools in California and at partner institutions around the globe.

ELIGIBILITY

Graduate students from SLMath Academic Sponsoring Institutions or from the mathematics department of any U.S. institution are eligible to apply.

Students from groups underrepresented in the mathematical sciences (including women and gender-expansive individuals) are encouraged to apply.

HOW TO APPLY

Graduate students must be nominated by their Director of Graduate Studies during the enrollment period of December 1, 2024 through February 1, 2025. Admission is on a first-come, first-served basis up to the limits of the capacity of the school. Early nominations are not accepted.

FINANCIAL SUPPORT

SLMath covers local expenses as well as partial travel expenses for accepted students.

Nominations open on December 1, 2024

slmath.org/summer-schools



SIMONS LAUFER
MATHEMATICAL
SCIENCES INSTITUTE



SLMath (MSRI) has been supported from its origins by the National Science Foundation, joined by the National Security Agency, 117 Academic Sponsor departments, private foundations, and generous and farsighted individuals.

PARIS, FRANCE:
Université Paris-Saclay

June 2-13, 2025

Local Limits of Random Graphs

Organizers:

- Ainhoa Aparicio-Monforte, Fondation Mathématique Jacques Hadamard (FMJH)
- Alexandra Genesco, FMJH
- Pascal Massart*, FMJH

VANCOUVER, CANADA:
Pacific Institute for Mathematical Sciences (PIMS)

June 2-27, 2025

2025 PIMS-CRM Summer School in Probability

Organizers:

- Louigi Addario-Berry, McGill U.
- Omer Angel, U. of British Columbia
- Mathav Murugan, U. of British Columbia
- Gordon Slade, U. of British Columbia

TORONTO, CANADA:
Fields Institute

June 2-13, 2025

Séminaire de Mathématiques Supérieures 2025: An Introduction to Recent Trends in Commutative Algebra

Organizers:

- Sergio Da Silva, Virginia State U.
- Federico Galetto, Cleveland State U.
- Elena Guardo, Università di Catania
- Megumi Harada, McMaster U.
- Patricia Klein, Texas A & M U.
- Jenna Rajchgot, McMaster U.
- Adam Van Tuyl, McMaster U.

BERKELEY, CALIFORNIA:
SLMath

June 9-20, 2025

Statistical Optimal Transport

Organizers:

- Promit Ghosal*, Brandeis U.
- Jonathan Niles-Weed, NYU Courant Institute
- Marcel Nutz, Columbia U.

BERKELEY, CALIFORNIA:
SLMath

June 23-July 3, 2025

Graphical Models in Algebraic Combinatorics

Organizers:

- Christian Gaetz, UC Berkeley
- David Keating, U. of Illinois at Urbana-Champaign
- Melissa Sherman-Bennett, UC Davis
- Anna Weigandt*, U. of Minnesota

FAIRBANKS, ALASKA:
University of Alaska Fairbanks

June 16-27, 2025

Mathematics of Climate, Sea Ice, and Polar Ecosystems

Organizers:

- Kenneth Golden, U. of Utah
- Jody Reimer, U. of Utah

LEIPZIG, GERMANY:
Max Planck Institute for Mathematics in the Sciences

June 23 - July 4, 2025

New Perspectives on Discriminants and Applications

Organizers:

- Eliana Duarte, Centro de Matemática da Universidade do Porto
- Serkan Hosten, San Francisco State U.
- Simon Telen, Max-Planck-Institut

ANTWERP, BELGIUM
University of Antwerp

June 30 - July 11, 2025

Noncommutative Algebraic Geometry

Organizers:

- Pieter Belmans, U. of Luxembourg
- Lander Hermans, Universiteit Antwerp
- Wendy Lowen, Universiteit Antwerpen
- Arne Mertens, Universiteit Antwerp
- Michel Van Den Bergh, Hasselt U.
- Špela Špenko, U. Libre de Bruxelles

BERKELEY, CALIFORNIA:
SLMath

July 7-18, 2025

Computer Assisted Proofs in Applied Mathematics

Organizers:

- Jonathan Jaquette*, NJ Institute of Tech.
- Evelyn Sander, George Mason U.

YORKTOWN, NEW YORK:
IBM Thomas J. Watson Research Center

June 7-18, 2025

Principled Scientific Discovery with Formal Methods

Organizers:

- Claudia D'Ambrosio, Centre National de la Recherche Scientifique (CNRS); École Polytechnique
- Sanjeeb Dash, IBM Thomas J. Watson Research Center
- Lior Hoshen, IBM Thomas J. Watson Research Center

BAY AREA, CALIFORNIA:
Location TBA

July 14-25, 2025

Geometry and Dynamics in Higher Rank Lie Groups

Organizers:

- Richard Canary, U. of Michigan
- Sara Maloni, U. of Virginia
- Wenyu Pan, U. of Toronto
- Cagri Sert, U. of Zurich
- Tengren Zhang*, National U. of Singapore

BERKELEY, CALIFORNIA:
SLMath

July 21 - August 1, 2025

Topological and Geometric Structures in Low Dimensions

Organizers:

- Kenneth Bromberg*, U. of Utah
- Kathryn Mann, Cornell U.

* denotes lead organizer.



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