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 2023 · BERKELEY, CA & WORLDWIDE
Simons Laufer Mathematical Sciences Institute (SLMath)

SLMath (formerly known as MSRI) will host 11 Summer Graduate Schools at our institute 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 particularly encouraged to apply.

HOW TO APPLY
Graduate students must be nominated by their Director of Graduate Studies during the enrollment period of December 1, 2022 through February 1, 2023. 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, 2022
msri.org/sgs
BERKELEY, CALIFORNIA: MSRI/SLMath
June 5 - June 16, 2023
**Formalization of Mathematics**
Organizers:
Jeremy Avigad (Carnegie Mellon University)
Heather Macbeth (Fordham University)
Patrick Massot (Université Paris-Saclay)

**...it was an incredible experience and really inspired me to become a professional mathematician.**

BERKELEY, CALIFORNIA: MSRI/SLMath
June 20 - June 30, 2023
**Mathematics and Computer Science of Market and Mechanism Design**
Organizers:
Yannai Gonczarowski (Harvard University)
Irene Yuan Lo (Stanford University)
Ran Shorrer (Pennsylvania State University)
Inbal Talgam–Cohen* (Technion)

BERKELEY, CALIFORNIA: University of California, Berkeley
June 26 - July 7, 2023
**Introduction to Derived Algebraic Geometry**
Organizers:
Benjamin Antieau (Northwestern University)
Dmytro Arinkin (U. of Wisconsin–Madison)

BERKELEY, CALIFORNIA: MSRI/SLMath
July 3 - July 14, 2023
**Concentration Inequalities and Localization Techniques in High Dimensional Probability and Geometry**
Organizers:
Max Fathi (Université de Paris)
Dan Mikulincer (Massachusetts Institute of Technology)

LEIPZIG, GERMANY: Max Planck Institute for Mathematics in the Sciences
June 12 - June 23, 2023
**Algebraic Methods for Biochemical Reaction Networks**
Organizers:
Timo de Wolff (TU Berlin)
Alicia Dickenstein* (U. of Buenos Aires)
Elisenda Feliu (University of Copenhagen)

MONTREAL, CANADA: Université de Montréal
June 19 - June 30, 2023
**Séminaire de Mathématiques Supérieures 2023: Periodic and Ergodic Spectral Problems**
Organizers:
Alexander Elgart (Virginia Polytechnic Inst.)
Vojkan Jaksic (McGill University),
Svetlana Jitomirskaya (U of California, Irvine)
Ilya Kachkovskiy (Michigan State University)
Jean Lagacé (King’s College London)
Leonid Parnovski (University College London)

MONTRÉAL, CANADA: Université de Montréal
June 19 - June 30, 2023
**Séminaire de Mathématiques Supérieures 2023: Periodic and Ergodic Spectral Problems**
Organizers:
Alexander Elgart (Virginia Polytechnic Inst.)
Vojkan Jaksic (McGill University),
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Ilya Kachkovskiy (Michigan State University)
Jean Lagacé (King’s College London)
Leonid Parnovski (University College London)

MORAGA, CALIFORNIA: St. Mary's College
June 20 - June 30, 2023
**Topics in Geometric Flows and Minimal Surfaces**
Organizers:
Allana Fraser (University of British Columbia)
Lan–Huan Huang (University of Connecticut)
Catherine Searle (Wichita State University)
Lu Wang (Yale University)

NOTRE DAME, INDIANA: University of Notre Dame
May 22 - June 2, 2023
**Commutative Algebra and its Interaction with Algebraic Geometry**
Organizers:
Steven Cutkosky (University of Missouri)
Claudia Polini* (University of Notre Dame)
Claudiu Raicu (University of Notre Dame)
Steven Sam (UC, San Diego)
Kevin Tucker (University of Illinois at Chicago)

BERKELEY, CALIFORNIA: MSRI/SLMath
July 3 - July 14, 2023
**Concentration Inequalities and Localization Techniques in High Dimensional Probability and Geometry**
Organizers:
Max Fathi (Université de Paris)
Dan Mikulincer (Massachusetts Institute of Technology)

MSRI/SLMath has been supported from its origins by the National Science Foundation, now joined by the National Security Agency, over 100 Academic Sponsor departments, by a range of private foundations, and by generous and farsighted individuals.