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)

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**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)

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**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)

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**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)

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**MONTREAL, CANADA:**
Université de Montréal

**June 19 - June 30, 2023**
**Séminaire de Mathématiques Supérieures 2023: Periodic and Ergodic Spectral Problems**

**Organizers:**
Alexander Elgert (Virginia Polytechnic Inst.)
Vojkan Jakšic (McGill University),
Svetlana Jitomirskaya (U of California, Irvine)
Ilya Kachkovskiy (Michigan State University)
Jean Lagacé (King’s College London)
Leonid Parnovski (University College London)

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**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-Hsuan Huang (University of Connecticut)
Catherine Searle (Wichita State University)
Lu Wang (Yale University)

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**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)

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**SAN DIEGO, CALIFORNIA:**
University of California, San Diego

**Dates TBA**
**Machine Learning**

**Organizers:**
Ery Arias-Castro (UC, San Diego)
Mikhail Belkin (UC, San Diego)
Yusu Wang (UC, San Diego)
Lily Weng (UC, San Diego)

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**SAN JOSE, CALIFORNIA:**
IBM Research - Almaden

**July 10 - July 21, 2023**
**Mathematics of Big Data: Sketching and (Multi-) Linear Algebra**

**Organizers:**
Kenneth Clarkson (IBM Research Division)
Lior Horesh (IBM Research Center)
Misha Kilmer (Tufts University)
Tamara Kolda (MathSci.ai)
Shashanka Ubaru (IBM Research Center)

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**ZURICH, SWITZERLAND:**
Institution TBA

**Dates TBA**
**Foundations and Frontiers of Probabilistic Proofs**

**Organizer:**
Alessandro Chiesa (UC, Berkeley)

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* Represents lead organizer

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