

SUMMER GRADUATE SCHOOLS

2024

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 2024 · 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 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, 2023 through February 1, 2024. 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, 2023

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, over 100 Academic Sponsor departments, private foundations, and generous and farsighted individuals.

MONTRÉAL, CANADA:
Université de Montréal

June 3-14, 2024

**Séminaire de Mathématiques
Supérieures 2024: Flows and
Variational Methods in Riemannian
and Complex Geometry: Classical
and Modern Methods**

Organizers:

Vestislav Apostolov (U. du Québec à
Montréal)

Eleonora Di Nezza (Institut de Mathématiques
de Jussieu)

Pengfei Guan (McGill U.)

Spiro Karigiannis (U. of Waterloo)

Julien Keller (U. du Québec à Montréal)

Alina Stancu (Concordia U.)

Valentino Tosatti (NYU Courant Institute)

BERKELEY, CALIFORNIA:
MSRI/SLMath

June 17-28, 2024

**Particle Interactive Systems:
Analysis and Computational
Methods**

Organizers:

Irene M. Martinez Gamba (U. of Texas, Austin)

Francois Golse (École Polytechnique)

Qin Li (U. of Wisconsin-Madison)

Chiara Saffirio (U. Basel)

MORAGA, CALIFORNIA:
St. Mary's College

June 17-28, 2024

**Special Geometric Structures
and Analysis**

Organizers:

Constante Bellettini (U. College London)

Eleonora Di Nezza (Institut de Mathématiques
de Jussieu)

Song Sun (UC Berkeley)

ZÜRICH, SWITZERLAND:
IBM Research Europe

June 24 - July 5, 2024

**Introduction to Quantum-Safe
Cryptography**

Organizers:

Jonathan Bootle (IBM Zürich Research Lab.)

Luca De Feo (IBM Zürich Research Lab.)

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

BERKELEY, CALIFORNIA:
MSRI/SLMath

July 1-12, 2024

Stochastic Quantization

Organizers:

Massimiliano Gubinelli (U. of Oxford)

Martina Hofmanova (U. Bielefeld)

Hao Shen (U. of Wisconsin-Madison)

Lorenzo Zambotti (U. de Paris VI (Pierre et
Marie Curie))

MORAGA, CALIFORNIA:
St. Mary's College

July 1-12, 2024

**Koszul Duality in the Local
Langlands Program**

Organizers:

Clifton Cunningham (U. of Calgary)

Sarah Dijols (U. of Calgary)

SENDAI, JAPAN
RIKEN

July 1-12, 2024

H-principle

Organizers:

Emmy Murphy (Princeton U.)

Takashi Tsuboi (RIKEN Interdisciplinary
Theoretical and Mathematical Sciences
Program)

BERKELEY, CALIFORNIA:
University of California, Berkeley

July 8-19, 2024

**Introduction to the Theory of
Algebraic Curves**

Organizers:

Izzet Coskun (U. of Illinois, Chicago)

Eric Larson (Brown U.)

Hannah Larson* (UC Berkeley)

Isabel Vogt (Brown U.)

CRETE, GREECE:
IACM at FORTH

July 21 - August 2, 2024

**Mathematics of General
Relativity and Fluids**

Organizers:

Mihalis Dafermos* (Princeton U.)

Grigorios Fournodavlos (U. of Crete)

Juhi Jang (U. of Southern California)

Igor Rodnianski (Princeton U.)

MORAGA, CALIFORNIA:
St. Mary's College

July 29 - August 9, 2024

**Structure and Representation
Theory of Reductive p-adic
Groups**

Organizers:

Jessica Fintzen (U. Bonn)

Tasho Kaletha (U. of Michigan)

OKINAWA, JAPAN
**Okinawa Institute of Science and
Technology (OIST)**

July 29 - August 9, 2024

**Analysis of Partial Differential
Equations**

Organizers:

Ugur G. Abdulla (Okinawa Institute of Science
and Technology)

Gui-Qiang G. Chen (U. of Oxford)

NEW YORK CITY, NEW YORK:
NYU Courant Institute

August 5-16, 2024

**Mathematical Spin Glass
Theory**

Organizers:

Antonio Auffinger (Northwestern U.)

Wei-Kuo Chen (U. of Minnesota)

Elihan Subag (Weizmann Institute of Science)



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