MSRI SUMMER GRADUATE SCHOOLS

2022

In the summer of 2022, MSRI will offer 13 summer schools for graduate students from MSRI Academic Sponsors and other U.S. institutions. These schools provide students with the opportunity to learn from the top researchers in their fields, both in California and at partner institutions around the world.

ELIGIBILITY

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

MSRI is committed to the principles of Equal Opportunity and providing a welcoming environment free from discrimination. 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.

ENROLLMENT PERIOD

December 1, 2021 - February 1, 2022

ADMISSION

Admission is on a first-come, first-served basis up to the limits of the capacity of the school. Early nominations are not accepted.

SUPPORT

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

MORE INFORMATION

msri.org/sgs

MSRI Mathematical Sciences Research Institute

NSF

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MSRI 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.

BERKELEY, CALIFORNIA: MSRI (Mathematical Sciences Research Institute)

June 6-17, 2022
Integral Equations and Applications

Organizers: Fioralba Cakoni (University of Delaware), Dorina Mitrea (Baylor University), Irina Mitrea (Temple University), Shari Moskow (Drexel University)

July 5-15, 2022
Random Graphs

Organizers: Louigi Addario-Berry (McGill University), Remco van der Hofstad (Technische Universiteit Eindhoven)

MORAGA, CALIFORNIA: St. Mary's College

July 5-15, 2022
Algebraic Theory of Differential and Difference Equations, Model Theory and their Applications

Organizers: Alexey Ovchinnikov (Queens College, CUNY), Anand Pillay (University of Notre Dame), Thomas Scanlon (University of California, Berkeley), Michael Wibmer (University of Notre Dame)

July 25 - August 5, 2022
Topological Methods for the Discrete Mathematician

Organizers: Pavle Blagojevic (Freie Universität Berlin / Serbian Academy of Sciences and Arts), Florian Frick (Carnegie Mellon University / Freie Universität Berlin), Shira Zerbib (Iowa State University)

August 1-12, 2022
Tropical Geometry

Organizers: Renzo Cavalieri (Colorado State University), Hannah Markwig (Eberhard Karls Universität Tübingen), Dhruv Ranganathan (University of Cambridge)

ATHENS, GREECE: Stavros Niarchos Foundation Cultural Center

June 20 - July 1, 2022
Geometric Flows

Organizers: Nicholas Alikakos (National and Kapodistrian University of Athens (University of Athens)), Panagiota Daskalopoulos (Columbia University)

This school is supported by:

ΙΣΝ/SNF ΙΔΡΥΜΑ ΣΤΑΥΡΟΣ ΝΙΑΡΧΟΣ
STAVROS NIARCHOS FOUNDATION

ITALY: INdAM (Istituto Nazionale di Alta Matematica)

July 2022 (Dates TBA)
Mathematics of Machine Learning

Organizers: Sebastien Bubeck (Microsoft Research), Anna Karlin (University of Washington), Adith Swaminathan (Microsoft Research)

OXFORD, UNITED KINGDOM: University of Oxford

July 11-22, 2022
Metric Geometry and Geometric Analysis

Organizers: Cornelia Drutu (University of Oxford), Panos Papazoglou (University of Oxford)

PARK CITY, UTAH: PCMI (Park City Mathematics Institute)

July 17 - August 6, 2022
Number Theory Informed by Computation

Organizers: Jennifer Balakrishnan (Boston University), Rafe Mazzeo (Stanford University), Bjorn Poonen (Massachusetts Institute of Technology), Akshay Venkatesh (Institute for Advanced Study)

BRISBANE, AUSTRALIA: AMSI (Australian Mathematical Sciences Institute)

June 20 - July 1, 2022
New Directions in Representation Theory Analysis

Organizers: Tim Marchant (Australian Mathematical Sciences Institute), Joseph Grotowski (University of Queensland), Angela Coughlin (Australian Mathematical Sciences Institute), Ole Warnaar (University of Queensland), Geordie Williamson (University of Sydney)

TAIPEI, TAIWAN: NCTS (National Center for Theoretical Sciences)

July 18-29, 2022
Recent Topics in Well Posedness

Organizers: Jungkai Chen (National Taiwan University), Yoshikazu Giga (University of Tokyo), Maria Schonbek (University of California, Santa Cruz), Tsuyoshi Yoneda (University of Tokyo)

VANCOUVER, CANADA: University of British Columbia

July 11-22, 2022
Séminaire de Mathématiques Supérieures 2022: Floer Homotopy Theory

Organizers: Kristen Hendricks (Rutgers University), Ailsa Keating (University of Cambridge), Robert Lipshitz (University of Oregon), Iosif Polterovich (Université de Montréal), Liam Watson (University of British Columbia), Ben Williams (University of British Columbia)

BANFF, CANADA: BIRS (Banff International Research Station)

August 1-12, 2022
Sums of Squares Method in Geometry, Combinatorics and Optimization

Organizers: Grigoriy Blekherman (Georgia Institute of Technology), Annie Raymond (University of Massachusetts Amherst), Rekha Thomas (University of Washington)

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

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