

MSRI-UP

2023

MSRI-UP is an award-winning comprehensive Research Experience for Undergraduates (REU) program aimed at identifying and supporting talented students from underrepresented backgrounds interested in careers in the mathematical sciences.

JUNE 10 - JULY 23, 2023 · BERKELEY, CA

Simons Laufer Mathematical Sciences Institute (SLMath)

MSRI-UP seeks undergraduate students from groups underrepresented in the mathematical sciences (including women and gender-expansive individuals), who have completed two years of university-level mathematics courses, and would like to conduct research in the mathematical sciences.

This six-week summer program takes place at the Simons Laufer Mathematical Sciences Institute (SLMath) in Berkeley, California, formerly known as MSRI. Student participants will learn about a modern mathematical topic and conduct collaborative research, working with a community of mentors and academic peers. Participants will leave with the necessary skills and knowledge to conduct and present collaborative research and apply for graduate studies and fellowships.

The research topic of the 2023 program will be Topological Data Analysis.

The Onsite Director will be Dr. Mercedes Franco (Queensborough Community College (CUNY)). The Research Leader will be Dr. Jose Perea (Northeastern University).

FINANCIAL SUPPORT

All participants will receive a \$3,600 stipend, as well as lodging, meals, and roundtrip travel to Berkeley, CA.

MORE INFORMATION

msri.org/up



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SUPPORT

During the summer, each of the 18 student participants will:

- Participate in the mathematics research program under the direction of Dr. Jose Perea (Northeastern University);
- Receive additional support of a dedicated post-doc and two graduate students;
- Complete a research project done in collaboration with other MSRI-UP students;
- Give a presentation and write a technical report on their research project;
- Attend a series of colloquium talks given by leading researchers in their fields;
- Attend workshops aimed at developing skills and techniques needed for research careers in the mathematical sciences;
- Learn techniques that will maximize a student's likelihood of admissions to graduate programs as well as the likelihood of winning fellowships; and
- Receive a \$3,600 stipend, lodging, meals and round trip travel to Berkeley, CA.

AFTER MSRI-UP

Each student selected for this program will be introduced to a network of mentors and given advice and assistance in navigating the process of applying to graduate schools and fellowship programs.

All participants have the opportunity to present summer research at national conferences in the year following the summer program, and alumni will be contacted regarding future research opportunities.

2023 RESEARCH TOPIC

Topological Data Analysis

View full 2023 program details online at:

msri.org/up

“It was incredibly valuable to talk with so many amazing mathematicians — my peers, my mentors, the guests who came in, the grad students who were there, and other mathematicians who were working at MSRI.”

ELIGIBILITY

Students who have already graduated or who will have graduated with a bachelor's degree by August 31, 2023 are not eligible to apply.

Due to funding restrictions, only U.S. citizens and permanent residents are eligible to apply. Deferred Action for Childhood Arrivals (DACA) students are also eligible thanks to generous funding by the Alfred P. Sloan Foundation. The program cannot accept foreign students regardless of funding.

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

HOW TO APPLY

Applications for MSRI-UP will be done through the National Science Foundation's REU Common Application. The application period is expected to begin in mid-November 2022.

APPLICATION DEADLINES

Applications submitted by February 15, 2023 will receive full consideration. (Applications submitted after February 15, 2023 but by March 1, 2023 may still be considered in a second round of acceptances.) We expect to begin making offers for participation in late February or early March 2023.

For full details, [visit the website](#) or send questions to the program directors via email: msri-up-directors@msri.org.

“I really enjoyed the friendships I built here, and especially the close relationships within my advising group.”



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