

MSRI-UP

2027

MSRI-UP is an award-winning comprehensive Research Experience for Undergraduates (REU) program aimed at identifying talented students interested in careers in the mathematical sciences and providing research opportunities, mentoring, advising, and community support.

JUNE 12 - JULY 25, 2027 · BERKELEY, CA

Simons Laufer Mathematical Sciences Institute (SLMath)

MSRI-UP seeks undergraduates 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 SLMath in Berkeley (formerly known as MSRI). Student participants will learn about a modern mathematical sciences 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.

2027 RESEARCH TOPIC

Applied Statistics: Health, Education, and Labor Market

On-site Director: **Dr. Rebecca Garcia** (Colorado College)

Research Leader: **Dr. Minho Kim** (Colorado College)

FINANCIAL SUPPORT

All participants will receive a \$4,200 stipend, as well as lodging, meals, and roundtrip travel to Berkeley, CA.

slmath.org/up



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SUPPORT

Each of the 18 students selected will:

- Participate in the mathematics research program under the direction of **Dr. Minho Kim**, a dedicated postdoc 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
- Receive a \$4,200 stipend and lodging, meals, and round-trip travel to Berkeley, CA

After the summer, each student will:

- have an opportunity to attend a national mathematics or science conference where students will present their research;
- be part of a network of mentors that will provide continuous advice in the long term as the student makes progress in their studies; and
- be contacted regarding future research opportunities.

APPLIED STATISTICS: HEALTH, EDUCATION, AND LABOR MARKET

MSRI-UP 2027 will focus on statistical models applied to real-world data using the free statistical software R. The first two weeks of the program will consist of crash-course training in regression, inference, and R.

Research projects will be chosen from three areas: epidemiological statistics, education statistics, and labor economics.

ELIGIBILITY

- Applicants should have completed the calculus sequence. Prior coursework in statistics and programming experience in R or a similar language are desired.
- Students should be willing to learn quickly, work in a team, and communicate results clearly.
- Students who will have graduated by August 31, 2027 are not eligible.
- **Due to funding restrictions, only U.S. citizens and permanent residents are eligible to apply.** The program cannot accept foreign students regardless of funding.

HOW TO APPLY

Applications for MSRI-UP are managed through the National Science Foundation's REU Common Application at the NSF ETAP website. The application period begins in mid-November of each year.

APPLICATION DEADLINES

Applications submitted by **February 15, 2027** will receive full consideration. (Applications submitted between February 15 and March 1, 2027 may still be considered in a second round of acceptances.) We expect to begin making offers for participation in late February or early March 2027.

“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 SLMath.”

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



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