# MSRI-UP

# 2022

**The MSRI Undergraduate Program (MSRI-UP) is a 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 13 - JULY 22, 2022 · BERKELEY, CA
### Mathematical Sciences Research Institute (MSRI)

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 Mathematical Sciences Research Institute in Berkeley, California. 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 2022 program will be Algebraic Methods in Mathematical Biology.**

The Research Leader will be **Dr. Anne J. Shiu** (Texas A&M University). The onsite Director will be **Dr. Federico Ardila** (San Francisco State 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



**MSRI** Mathematical Sciences Research Institute

**NSF**

**ALFRED P. SLOAN FOUNDATION**
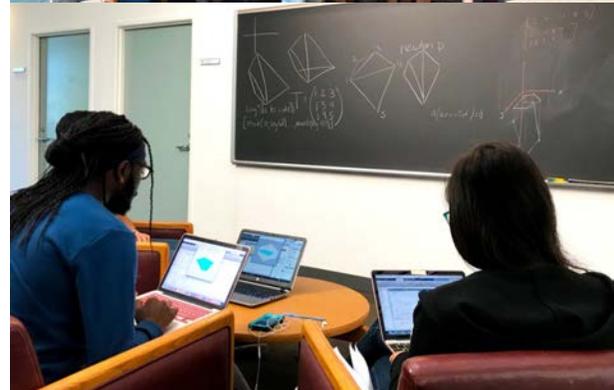
## SUPPORT

During the summer, each of the student participants will:

- Participate in the mathematics research program under the direction of Dr. Anne J. Shiu (Texas A&M 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.

## 2022 RESEARCH TOPIC

### Algebraic Methods in Mathematical Biology

View full 2022 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, 2022 are not eligible to apply.

**Only U.S. citizens and permanent residents are eligible to apply.** MSRI-UP cannot accept international students.

MSRI 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 2021.

## APPLICATION DEADLINES

Applications submitted by February 15, 2022 will receive full consideration. (Applications submitted after February 15, 2022 but by March 1, 2022 may still be considered in a second round of acceptances.) We expect to begin making offers for participation in late February or early March 2022.

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."*