

The American Mathematical Society welcomes applications for the 2019



## MATHEMATICS RESEARCH COMMUNITIES

*Advancing research. Creating connections.*

The Mathematics Research Communities program helps early-career mathematicians develop long-lasting cohorts for collaborative research projects in many areas of mathematics. The program includes:

- Intensive one-week, hands-on research conference in the summer (see the 2019 research topics below)
- Special Sessions at the AMS-MAA Joint Mathematics Meetings
- Guidance in career building
- Follow-up small-group collaborations
- Longer-term opportunities for collaboration

Over time, the participants are expected to provide feedback about career development and the impact of the MRC program.

The 2019 summer conferences of the Mathematics Research Communities will be held at the Whispering Pines Conference Center in West Greenwich, Rhode Island, where participants can enjoy the natural beauty and a collegial atmosphere. Women and underrepresented minorities are especially encouraged to apply.

The application deadline for summer 2019 is February 15, 2019.

This program is supported by the AMS and by a grant from the National Science Foundation.

LEARN MORE AT: [WWW.AMS.ORG/MRC](http://WWW.AMS.ORG/MRC)

### TOPICS FOR 2019

#### Week 1: June 2–8, 2019

*Geometric Representation Theory and Equivariant Elliptic Cohomology*

Organizers: Dan Berwick-Evans, University of Illinois at Urbana-Champaign  
Emily Cliff, University of Illinois at Urbana-Champaign  
Nora Ganter, University of Melbourne  
Arnav Tripathy, Harvard University  
Josh Wen, University of Illinois at Urbana-Champaign

#### Week 2: June 9–15, 2019

*Stochastic Spatial Models*

Organizers: Shankar Bhamidi, University of North Carolina, Chapel Hill  
Gerandy Brito, Georgia Institute of Technology  
Michael Damron, Georgia Institute of Technology  
Rick Durrett, Duke University  
Matthew Junge, Duke University

#### Week 3: June 16–22, 2019

*Explicit Methods in Arithmetic Geometry in Characteristic  $p$*

Organizers: Renee Bell, University of Pennsylvania  
Julia Hartmann, University of Pennsylvania  
Valentijn Karemaker, University of Pennsylvania  
Padmavathi Srinivasan, Georgia Institute of Technology  
Isabel Vogt, Massachusetts Institute of Technology

