

MATHEMATICS RESEARCH COMMUNITIES Snowbird Resort, Snowbird, Utah

MRC 2016

JUNE 5 – 11, 2016 (Arrive Sunday and depart Saturday)

LIE GROUP REPRESENTATIONS, DISCRETIZATION, AND GELFAND PAIRS

Organizers:

Bradley Currey, *Saint Louis University*
Gestur Olafsson, *Louisiana State University*
Gail Ratcliff, *East Carolina University*

JUNE 5 – 11, 2016 (Arrive Sunday and depart Saturday)

CHARACTER VARIETIES: EXPERIMENTS AND NEW FRONTIERS

Organizers:

Sean Lawton, *George Mason University*
Christopher Manon, *George Mason University*
Adam Sikora, *State University of New York at Buffalo*

JUNE 12 – 18, 2016 (Arrive Sunday and depart Saturday)

ALGEBRAIC STATISTICS

Organizers:

Mathias Drton, *University of Washington*
Elizabeth Gross, *San Jose State University*
Serkan Hosten, *San Francisco State University*
David Kahle, *Baylor University*
Sonja Petrovic, *Illinois Institute of Technology*

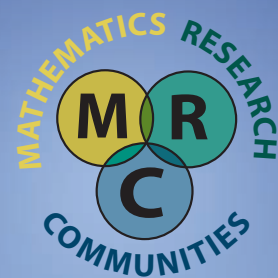
JUNE 19 – 25, 2016 (Arrive Sunday and depart Saturday)

MATH IN PHYSIOLOGY AND MEDICINE

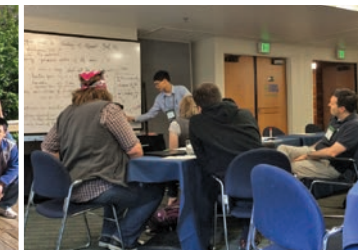
Organizers:

Dan Beard, *University of Michigan*
Brian Carlson, *University of Michigan*
Adam Mahdi, *University of Oxford*
Mette Olufsen, *North Carolina State University*
Johnny Ottesen, *Roskilde University*

Learn more at: www.ams.org/programs/mrc



2016 MATHEMATICS RESEARCH COMMUNITIES



ABOUT THE MATHEMATICS RESEARCH COMMUNITIES

Mathematics Research Communities (MRC), a program of the American Mathematical Society (AMS), provides early-career mathematicians—those who are close to finishing their doctorates or have recently finished—with opportunities to build social and collaborative networks to inspire and sustain them in their research and career development.

The program includes:

- One-week summer conference (see the 2016 research topics on back panel)
- Special Sessions at the national meeting
- Funding for additional collaborations
- Longitudinal study of early-career mathematicians

Those accepted into this program will receive support (full room and board at Snowbird and up to \$721 in transportation) for the summer conference and will be partially supported for their participation in the Joint Mathematics Meetings which follow in January 2017. The summer conferences of the MRC are held in the scenic mountain setting of the Snowbird Resort, Utah, where participants can enjoy the natural beauty and a collegial atmosphere.

Participants report a direct link between their growth as mathematical researchers and attending an MRC. As a direct result of participating in an MRC, attendees have engaged in numerous successful research projects and collaborations that have produced journal articles, preprints, and conference presentations.

COMMENTS FROM MRC 2015 PARTICIPANTS

"It truly was the best mathematical experience of my graduate career. I hope it will continue so that other young mathematicians can find a way to network and collaborate in meaningful research in their areas. I feel honored and I want to thank everyone involved in selecting me to take part in this experience."

"This was such an incredible experience! I would like to heartily thank the funding organizations and the organizers!"

"This was a novel conference and it was a success in my book. In fact, I wish there were more conferences following this format."

"Working on a new research area, with peers and mentors. I have developed a strong interest in my group's research topic."

"This conference allowed me to meet many of my peers, and the structure of the conference allowed us to concentrate on math more than any of the other conferences I have attended."

"For one the topic was fascinating! The ability to pick a problem and work on it in groups separated this from other conferences for me. At most conferences I may come home with one idea or two, but with this style I came home with many. Also, my group has already started answering that problem. Having worked in a group has allowed me to make closer contacts than I would at a standard conference where I may only share a meal when meeting someone new."



GENERAL INFORMATION FOR MRC PARTICIPANTS

The program pays for room and board for the stay at Snowbird, transportation by van from the Salt Lake City airport to the resort and back, and up to \$721 in ground and air transportation.

Format of the programs:

The scientific sessions will begin each week on Monday morning and end on Friday evening. Participants should plan to **travel to** the resort on Sunday, and **depart** the following Saturday morning.

Typically, the scientific sessions run from 9:00 am to 5:00 pm daily, and some evenings. The lectures and small-group working sessions are held in comfortable, well-equipped meeting rooms.

Accommodations:

At the Snowbird Resort, two participants share a hotel-style room with two queen beds, small refrigerator, internet access, and a private bathroom. Amenities include outdoor heated year-round pools, saunas, fitness center, laundry facilities, satellite-cable television, restaurants, and lounges.

Meals:

Buffet-style meals of hot and cold entrees, beverages, etc. are included in the MRC conference package and are served in a private dining area. Dietary restrictions can be accommodated.

Social Events:

There will be a reception at the beginning of the conference, morning and afternoon breaks with a light refreshments throughout the week, and a final banquet. A hospitality suite is available to participants each evening with soft drinks, wine, beer, and snacks.



ABOUT SNOWBIRD RESORT

Situated in a beautiful, breathtaking mountain setting, Snowbird Resort provides an extraordinary environment for the MRC program. The atmosphere is comparable to the collegial gatherings at Oberwolfach and other conferences that combine peaceful natural ambience with stimulating meetings. MRC participants have access to a range of activities such as a tram ride to the top of the mountain, walking and hiking trails in the surrounding mountains, and swimming in heated outdoor pools. Participants also enjoy the simpler pleasures of convening on the patios at the resort to read, work, and socialize. At the conclusion of the day's program, colleagues may enjoy informal gatherings to network and continue discussion of the day's sessions over refreshments.



Within a half hour of the University of Utah, Snowbird is easily accessible from the Salt Lake City International Airport. For more information about Snowbird Resort, see www.snowbird.com.

"The location is very, very nice. It is such a calm and beautiful place!"

HOW TO APPLY

Individuals within one to two years prior to the receipt of their PhDs or within one to three years after receipt of their PhDs are welcome to apply.

The MRC program is open to individuals who are U.S. citizens as well as to those who are affiliated with U.S. institutions. A few international participants may be accepted. Women and underrepresented minorities are especially encouraged to apply. All participants are expected to be active in the full MRC program.

In addition to the completed application form, you must submit a letter of reference from a mathematician who can discuss how you will benefit and how you will contribute by participating in the MRC program. Instructions on how to apply can be found at the MRC website at www.ams.org/programs/research-communities/mrc-16.

Deadline for 2016 applications: March 1, 2016.

All individuals who apply will be notified of the decision before May 1, 2016.

For further information, please contact AMS Associate Executive Director, **T. Christine Stevens**, at ams-mrc@ams.org.

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