Recommended Programs of Study

If you are interested in PhD research in any of the following areas, please consult with the listed faculty members for their advice about recommended programs of study.

**Algebraic Geometry**

Sándor Kovács, Max Lieblich

**Algebraic Topology**

Ethan Devinatz, Steve Mitchell, John Palmieri

**Combinatorics**

Sara Billey, Ioana Dumitriu, Chris Hoffman, Monty McGovern, Isabella Novik

**Complex Analysis**

Don Marshall, Steffen Rohde

**Differential Geometry and Partial Differential Equations**

Tom Duchamp, Jerry Folland, Robin Graham, Jack Lee, James Morrow, Dan Pollack, Hart Smith, John Sylvester, Tatiana Toro, Gunther Uhlmann, Yu Yuan

**Noncommutative Algebra**

S. Paul Smith, James Zhang

**Non-Smooth Analysis**

Don Marshall (Complex Analysis), Steffen Rohde (Complex Analysis & Probability), Boris Solomyak (Fractal Geometry & Ergodic Theory), Tatiana Toro (Geometric Measure Theory)

**Number Theory**

Ralph Greenberg, Neal Koblitz, William Stein, Bianca Viray

**Numerical Analysis**

Ken Bube, Ioana Dumitriu

**Optimization**

Jim Burke, Dima Drusvyatskiy, Thomas Rothvoss, Rekha Thomas

**Probability**

Chris Burdzy, Zhen-Qing Chen, Ioana Dumitriu, Chris Hoffman, Hari Narayanan, Soumik Pal, Steffen Rohde

**Representation Theory**

David Collingwood, Ronald Irving, Monty McGovern, Julia Pevtsova, S. Paul Smith