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**  
Jarod Alper, Sándor Kovács, Max Lieblich

**Algebraic Topology**  
Ethan Devinatz, John Palmieri

**Combinatorics**  
Sara Billey, Chris Hoffman, Monty McGovern, Isabella Novik

**Complex Analysis**  
Don Marshall, Steffen Rohde

**Differential Geometry and Partial Differential Equations**  
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), Tatiana Toro (Geometric Measure Theory)

**Number Theory**  
Neal Koblitz, Bianca Viray

**Numerical Analysis**  
Ken Bube

**Optimization**  
Jim Burke, Dima Drusvyatskiy, Thomas Rothvoss, Rekha Thomas

**Probability**  
Chris Burdzy, Zhen-Qing Chen, Chris Hoffman, Soumik Pal, Steffen Rohde

**Representation Theory**  
David Collingwood, Monty McGovern, Julia Pevtsova, S. Paul Smith

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