

Mathematics

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Faculty

Chair

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Professor
PhD, Rutgers University
Algebraic and topological combinatorics

Director of Graduate Studies

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Professor
PhD, Washington University
Complex function theory; operators; harmonic analysis

Director of Undergraduate Studies

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Professor
PhD, California Institute of Technology
Geometric numerical analysis; computational mathematics

Associate Director of Undergraduate Studies

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Teaching Professor
PhD, University of Utah
Geometric topology

Department Faculty

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Algebraic geometry

Alan Chang

Assistant Professor
PhD, University of Chicago
Geometric measure theory; harmonic analysis

Quo-Shin Chi

Professor
PhD, Stanford University
Differential geometry

Lawrence Conlon

Emeriti Professor
PhD, Harvard University
Differential topology

Aliakbar Daemi

Assistant Professor
PhD, Harvard University
Gauge theory; low-dimensional topology; symplectic geometry

Laura Escobar Vega

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PhD, Cornell University
Combinatorics; algebraic geometry

Renato Feres

Professor
PhD, California Institute of Technology
Differential geometry; dynamical systems

Steven Frankel

Associate Professor
PhD, University of Cambridge
Geometric topology; dynamics

Ron Freiwald

Emeriti Professor
PhD, University of Rochester
General topology

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PhD, Clemson University
Harmonic analysis; partial differential equations

Gary R. Jensen

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PhD, University of California, Berkeley
Differential geometry

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Senior Lecturer
PhD, University of Wisconsin–Madison
Algebraic number theory; arithmetic statistics

Matt Kerr

Professor
PhD, Princeton University
Algebraic geometry; Hodge theory

Steven G. Krantz

Professor
PhD, Princeton University
Several complex variables; geometric analysis

N. Mohan Kumar

Emeriti Professor
PhD, Bombay University
Algebraic geometry; commutative algebra

Wanlin Li

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PhD, University of Wisconsin–Madison
Number theory; arithmetic geometry

Henri Martikainen

Associate Professor
PhD, University of Helsinki, Finland
Harmonic analysis; geometric measure theory

John E. McCarthy

Spencer T. Olin Professor of Mathematics
PhD, University of California, Berkeley
Analysis; operator theory; one and several complex variables

Minh Nguyen

Postdoctoral Lecturer
PhD, University of Arkansas
Gauge theory; low dimensional topology

Charles Ouyang

Assistant Professor
PhD, Rice University
(Higher) Teichmüller theory; Riemann surfaces; harmonic maps and minimal surfaces

Martha Precup

Associate Professor
PhD, University of Notre Dame
Applications of Lie theory to algebraic geometry and the related combinatorics

Donsub Rim

Assistant Professor
PhD, University of Washington
Applied mathematics

Rachel Roberts

Elinor Anheuser Professor of Mathematics
PhD, Cornell University
Low-dimensional topology

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Complex analysis; interpolation theory

Angel Roman

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Representation theory; operator algebras

Jesus Sanchez

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PhD, Pennsylvania State University
Noncommutative index theory; cyclic cohomology; spin Riemannian geometry; high-dimensional gauge theory

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Algebraic number theory

Jack Shapiro

Emeriti Professor
PhD, City University of New York
Algebraic K-theory

Edward Spitznagel

Emeriti Professor
PhD, University of Chicago
Statistics; statistical computation; application of statistics to medicine

Yanli Song

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Noncommutative geometry; symplectic geometry; representation theory

Xiang Tang

Professor
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Symplectic geometry; noncommutative geometry; mathematical physics

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Differential geometry; Poisson geometry; singular spaces

Brett Wick

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Complex analysis; harmonic analysis; operator theory; several complex variables

Mladen Victor Wickerhauser

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PhD, Yale University
Harmonic analysis; wavelets; numerical algorithms for data compression

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Harmonic analysis; differential geometry

David Wright

Emeriti Professor
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Affine algebraic geometry; polynomial automorphisms

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Commutative algebra; algebraic geometry