

# Mathematics and Statistics

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## Faculty

### Chair

**John Shareshian** (<https://math.wustl.edu/people/john-shareshian/>)  
PhD, Rutgers University  
Algebraic and topological combinatorics

### Directors

**José Figueroa-López** (<https://math.wustl.edu/people/jose-e-figueroa-lopez/>)  
Director of Undergraduate Studies  
PhD, Georgia Institute of Technology  
Statistics; probability and stochastic processes; mathematical finance

**Brett Wick** (<https://math.wustl.edu/people/brett-wick/>)  
Director of Graduate Studies; Professor of Mathematics  
PhD, Brown University  
Complex analysis; harmonic analysis; operator theory; several complex variables

### Endowed Professors

**Soumendra Lahiri** (<https://math.wustl.edu/people/soumendra-lahiri/>)  
Stanley A. Sawyer Professor  
PhD, Michigan State University  
Mathematical statistics and data science

**John E. McCarthy** (<https://math.wustl.edu/people/john-e-mccarthy/>)  
Spencer T. Olin Professor of Mathematics  
PhD, University of California, Berkeley  
Analysis; operator theory; one and several complex variables

**Rachel Roberts** (<https://math.wustl.edu/people/rachel-roberts/>)  
Elinor Anheuser Professor of Mathematics  
PhD, Cornell University  
Low-dimensional topology

### Professors

**Quo-Shin Chi** (<https://math.wustl.edu/people/quo-shin-chi/>)  
PhD, Stanford University  
Differential geometry

**Renato Feres** (<https://math.wustl.edu/people/renato-feres/>)  
PhD, California Institute of Technology  
Differential geometry; dynamical systems

**José Figueroa-López** (<https://math.wustl.edu/people/jose-e-figueroa-lopez/>)  
PhD, Georgia Institute of Technology  
Statistics; probability and stochastic processes; mathematical finance

**Matthew Kerr** (<https://math.wustl.edu/people/matthew-kerr/>)  
PhD, Princeton University  
Algebraic geometry; Hodge theory

**Steven G. Krantz** (<https://math.wustl.edu/people/steven-g-krantz/>)  
PhD, Princeton University  
Several complex variables; geometric analysis

**Nan Lin** (<https://math.wustl.edu/people/nan-lin/>)  
PhD, University of Illinois at Urbana-Champaign  
Statistics

**N. Mohan Kumar** (<http://math.wustl.edu/people/n-mohan-kumar/>)  
PhD, Bombay University  
Algebraic geometry; commutative algebra

**Xiang Tang** (<https://math.wustl.edu/people/xiang-tang/>)  
PhD, University of California, Berkeley  
Symplectic geometry; noncommutative geometry; mathematical physics

**Brett Wick** (<https://math.wustl.edu/people/brett-wick/>)  
PhD, Brown University  
Complex analysis; harmonic analysis; operator theory; several complex variables

**Mladen Victor Wickerhauser** (<https://math.wustl.edu/people/mladen-victor-wickerhauser/>)  
PhD, Yale University  
Harmonic analysis; wavelets; numerical algorithms for data compression

### Associate Professors

**Roya Beheshti Zavareh** (<https://math.wustl.edu/people/roya-beheshti-zavareh/>)  
PhD, Massachusetts Institute of Technology  
Algebraic geometry

**Jimin Ding** (<https://math.wustl.edu/people/jimin-ding/>)  
PhD, University of California, Davis  
Statistics

**Francesco di Plinio** (<http://math.wustl.edu/people/francesco-di-plinio-0/>)

PhD, Indiana University Bloomington  
Harmonic analysis; partial differential equations

**Gregory Knese** (<https://math.wustl.edu/people/gregory-knese/>)

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

**Todd Kuffner** (<https://math.wustl.edu/people/todd-kuffner/>)

PhD, Imperial College London  
Statistics; likelihood; asymptotics; econometrics

**Debashis Mondal**

PhD, University of Washington  
Statistics

**Ari Stern** (<https://math.wustl.edu/people/ari-stern/>)

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

## Assistant Professors

**Aliakbar Daemi** (<https://math.wustl.edu/people/aliakbar-daemi/>)

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

**Laura Escobar Vega** (<https://math.wustl.edu/people/laura-escobar-vega/>)

PhD, Cornell University  
Combinatorics and algebraic geometry

**Steven Frankel** (<https://math.wustl.edu/people/steven-frankel/>)

PhD, University of Cambridge  
Geometric topology and dynamics

**Martha Precup** (<https://math.wustl.edu/people/martha-precup/>)

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

**Donsub Rim** (<https://math.wustl.edu/people/donsub-rim/>)

PhD, University of Washington  
Applied mathematics

**Yanli Song** (<https://math.wustl.edu/people/yanli-song/>)

PhD, Pennsylvania State University  
Noncommutative geometry; symplectic geometry; representation theory

## Professors Emeriti

**Lawrence Conlon** (<https://math.wustl.edu/people/lawrence-conlon/>)

PhD, Harvard University  
Differential topology

**Ron Freiwald** (<https://math.wustl.edu/people/ron-freiwald/>)

PhD, University of Rochester  
General topology

**Gary R. Jensen** (<https://math.wustl.edu/people/gary-r-jensen/>)

PhD, University of California, Berkeley  
Differential geometry

**Robert McDowell** (<https://math.wustl.edu/people/robert-mcdowell/>)

PhD, Purdue University  
General topology

**Richard Rochberg**

PhD, Harvard University  
Complex analysis; interpolation theory

**Jack Shapiro** (<https://math.wustl.edu/people/jack-shapiro/>)

PhD, City University of New York  
Algebraic K-theory

**Edward Spitznagel** (<https://math.wustl.edu/people/edward-spitznagel/>)

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

**Guido L. Weiss** (<https://math.wustl.edu/people/guido-l-weiss/>)

PhD, University of Chicago  
Interpolation of operators; harmonic analysis; Lie groups

**Edward N. Wilson** (<https://math.wustl.edu/people/edward-n-wilson/>)

PhD, Washington University  
Harmonic analysis; differential geometry

**David Wright** (<https://math.wustl.edu/people/david-wright/>)

PhD, Columbia University  
Affine algebraic geometry; polynomial automorphisms

## William Chauvenet Postdoctoral Lecturers

**Michael Landry** (<http://math.wustl.edu/people/michael-landry/>)

PhD, Yale University  
Low-dimensional geometry and topology

**Andrew Walton Green** (<https://math.wustl.edu/people/andrew-walton-green/>)

PhD, Clemson University  
Harmonic analysis and partial differential equations

**Ben Wormleighton** (<https://math.wustl.edu/people/ben-wormleighton/>)

PhD, University of California, Berkeley  
Algebraic and symplectic geometry

## Postdoctoral Lecturers

**Meric Augat** (<http://math.wustl.edu/people/meric-augat/>)

PhD, University of Florida

Free analysis; multivariable operator theory; noncommutative algebra; free skew fields

**Shuhao Cao** (<https://math.wustl.edu/people/shuhao-cao/>)

PhD, Purdue University

Numerical PDF and optimization

**Humberto Diaz** (<https://math.wustl.edu/people/humberto-diaz/>)

PhD, Duke University

Algebraic geometry

**Rudy Rodsphon** (<https://math.wustl.edu/people/rudy-rodsphon/>)

PhD, Vanderbilt University

Noncommutative geometry

**Xiaoyu Wang** (<https://math.wustl.edu/people/xiaoyu-wang/>)

PhD, Florida State University

Statistics

## Senior Lecturer

**Abigail Jager** (<https://math.wustl.edu/people/abigail-jager/>)

PhD, University of Chicago

Statistics and causal inference

## Lecturers

**Silas Johnson** (<https://math.wustl.edu/people/silas-johnson/>)

PhD, University of Wisconsin-Madison

Algebraic number theory; arithmetic statistics

**Karl Schaefer** (<https://math.wustl.edu/people/karl-schaefer/>)

PhD, University of Chicago

Algebraic number theory

## Associate Director of Undergraduate Studies

**Blake Thornton** (<https://math.wustl.edu/people/blake-thornton/>)

PhD, University of Utah

Geometric topology

## Program Coordinator

**Lisa M. Kuehne** (<https://math.wustl.edu/people/lisa-kuehne/>)

Program Coordinator, University College & Center for Advanced Learning

AM Mathematics, Washington University

Undergraduate mathematics education