

Mathematics and Statistics

Phone: 314-935-6760
Website: <http://wumath.wustl.edu/graduate>

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
Professor of Mathematics and Statistics
PhD, Georgia Institute of Technology
Statistics; probability and stochastic processes; mathematical finance

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

Director of Graduate Studies
Associate Professor of Mathematics and Statistics
PhD, Washington University
Complex function theory; operators; harmonic analysis

Endowed Professors

Soumendra Lahiri (<https://math.wustl.edu/people/soumendra-lahiri/>)

Stanley A. Sawyer Professor
PhD, Michigan State University
Mathematical statistics; 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

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

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 (<https://math.wustl.edu/people/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; algebraic geometry

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

PhD, University of Cambridge
Geometric topology; dynamics

Wanlin Li (<https://math.wustl.edu/people/wanlin-li/>)

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

Robert Lunde (<https://math.wustl.edu/people/robert-lunde/>)

PhD, Carnegie Mellon University
Statistical network analysis; time series; resampling methods; high-dimensional statistics

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

N. Mohan Kumar (<http://math.wustl.edu/people/n-mohan-kumar/>)

PhD, Bombay University
Algebraic geometry; commutative algebra

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

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

Nilanjan Chakraborty (<https://math.wustl.edu/people/nilanjan-chakraborty/>)

PhD, Michigan State University
High dimensional inference; time series; bootstrap

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

PhD, Yale University
Low-dimensional geometry; topology

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

PhD, Clemson University
Harmonic analysis; partial differential equations

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

PhD, University of California, Berkeley
Algebraic and symplectic geometry

Postdoctoral Lecturers

Chetkar Jha (<https://math.wustl.edu/people/chetkar-jha/>)

PhD, University of Missouri–Columbia
Hierarchical Bayesian methods; high-dimensional data analysis; network analysis with applications to biomedical datasets such as single-cell RNA sequencing datasets; SNP genotyping datasets

Minh Nguyen (<https://math.wustl.edu/people/minh-nguyen/>)

PhD, University of Arkansas
Gauge theory; low dimensional topology

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

PhD, Vanderbilt University
Noncommutative geometry

Angel Roman (<https://math.wustl.edu/people/angel-roman/>)

PhD, Pennsylvania State University
Representation theory; operator algebras

Jesus Sanchez (<https://math.wustl.edu/people/jesus-sanchez/>)

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

Joel Villatoro (<https://math.wustl.edu/people/joel-villatoro/>)

PhD, University of Illinois at Urbana-Champaign
Differential geometry; Poisson geometry; singular spaces

Bowen Xie (<https://math.wustl.edu/people/bowen-xie/>)

PhD, Iowa State University
Queueing theory; stochastic control problems; mathematical finance

Jay Yang (<https://math.wustl.edu/people/jay-yang/>)

Senior Lecturer

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

PhD, University of Chicago
Statistics; 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