

Department of Mathematics Faculty
Research Interests Fall 2012

Shreeram Abhyankar, Marshall Distinguished Professor of Mathematics, Professor of Industrial Engineering, Professor of Computer Science, Ph.D. Harvard University 1955; algebraic geometry.

Benjamin Adcock, Assistant Professor of Mathematics, Ph.D. University of Cambridge 2010; numerical analysis, computational mathematics.

Donu Arapura, Professor of Mathematics, Ph.D. Columbia University 1985; algebraic geometry.

Rodrigo Bañuelos, Professor of Mathematics, Ph.D. University of California, Los Angeles 1984; probability and its applications to harmonic analysis, pde, spectral theory and geometry.

Saugata Basu, Professor of Mathematics and Computer Science, Ph.D. Courant Institute of Mathematical Sciences (NYU) 1996; real algebraic geometry.

Fabrice Baudoin, Professor of Mathematics, Ph.D. Paul Sabatier University 2002; stochastic analysis.

Patricia Bauman, Professor of Mathematics, Ph.D. University of Minnesota 1982; partial differential equations, applied mathematics.

Steven Bell, Professor of Mathematics, Ph.D. Massachusetts Institute of Technology 1979; several complex variables.

Mireille Boutin, Associate Professor of Electrical and Computer Engineering and Mathematics, Ph.D. University of Minnesota 2001; invariant theory of Lie group actions on manifolds.

Johnny Brown, Professor of Mathematics, Ph.D. University of Michigan 1979; complex variables.

Gregory Buzzard, Professor of Mathematics, Ph.D. University of Michigan 1995; computational modeling of biological systems.

Zhiqiang Cai, Professor of Mathematics, Ph.D. University of Colorado 1990; numerical analysis, applied mathematics.

David Catlin, Professor of Mathematics, Ph.D. Princeton University 1978; several complex variables.

Giulio Caviglia, Assistant Professor of Mathematics, Ph.D. University of Kansas 2004; commutative algebra.

Min Chen, Professor of Mathematics, Ph.D. Indiana University 1991; numerical analysis, pde, scientific computing.

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John Cushman, Distinguished Professor of Earth and Atmospheric Sciences, Professor of Mathematics, Ph.D. Iowa State University 1978; applied mathematics.

Marius Dadarlat, Professor of Mathematics, Ph.D. University of California, Los Angeles 1991; operator algebras, K-theory.

Donatella Danielli, Professor of Mathematics, Ph.D. Purdue University 1999; partial differential equations, applied mathematics, harmonic analysis.

Burgess Davis, Professor of Mathematics and Statistics, Ph.D. University of Illinois 1968; probability.

Louis de Branges, Edward C. Elliott Distinguished Professor of Mathematics, Ph.D. Cornell University 1957; complex analysis, Fourier analysis, functional analysis.

Maarten de Hoop, Professor of Mathematics and Earth and Atmospheric Sciences, Ph.D. Delft University of Technology 1992; inverse problems, numerical analysis.

Steven Dong, Associate Professor of Mathematics, Ph.D. State University of New York, Buffalo 2001; large-scale parallel scientific computing, grid computing applied to multi-physics simulations.

Harold Donnelly, Professor of Mathematics, Ph.D. University of California, Berkeley 1974; differential geometry.

David Drasin, Professor of Mathematics, Ph.D. Cornell University 1966; complex variables, potential theory.

Alexandre Eremenko, Distinguished Professor of Mathematics, Ph.D. Rostov University 1979; complex analysis, dynamical systems.

Zhilan Feng, Professor of Mathematics, Ph.D. Arizona State University 1994; mathematical biology, applied mathematics.

Jose Figueroa-Lopez, Associate Professor of Statistics and Mathematics, Ph.D. Georgia Institute of Technology 2004; mathematical finance, probability and stochastic processes.

Andrei Gabrielov, Professor of Mathematics and Earth and Atmospheric Sciences, Ph.D. Moscow State University 1973; real algebraic and analytic geometry.

Nicola Garofalo, Professor of Mathematics, Ph.D. University of Minnesota 1987; partial differential equations, harmonic analysis and geometry.

Edray Goins, Assistant Professor of Mathematics, Ph.D. Stanford University 1999; number theory, algebraic geometry.

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David Goldberg, Professor of Mathematics, Ph.D. University of Maryland 1991; representation theory.

William Heinzer, Professor of Mathematics, Ph.D. Florida State University 1966; commutative algebra.

Erika Kaufmann, Assistant Professor of Mathematics and Physics, Ph.D. University of Bonn 1999; mathematical physics, condensed matter theory.

Ralph Kaufmann, Professor of Mathematics, Ph.D. University of Bonn 1997; algebraic topology.

Rachael Kenney, Assistant Professor of Mathematics and C&I, Ph.D. North Carolina State University 2008; mathematics education.

Laszlo Lempert, Distinguished Professor of Mathematics, Ph.D. Eotvos Lorand University (Budapest) 1979; complex analysis.

Peijun Li, Assistant Professor of Mathematics, Ph.D. Michigan State University 2005; inverse scattering, scientific computing, applied mathematics.

Joseph Lipman, Professor of Mathematics, Ph.D. Harvard University 1965; algebraic geometry, commutative algebra.

Leonard Lipshitz, Professor of Mathematics, Ph.D. Princeton University 1972; model theory, algebra, non-archimedean analysis.

Tong Liu, Associate Professor of Mathematics, Ph.D. University of Michigan 2005; arithmetic geometry, algebraic number theory.

Bradley Lucier, Professor of Mathematics and Computer Science, Ph.D. University of Chicago 1981; numerical analysis, wavelets.

Kenji Matsuki, Professor of Mathematics, Ph.D. Columbia University 1988; algebraic geometry.

James McClure, Professor of Mathematics and Curriculum & Instruction, Ph.D. University of Chicago 1978; topology.

Ben McReynolds, Assistant Professor of Mathematics, Ph.D. University of Texas, Austin 2006; geometry, topology, geometric group theory, algebra.

Tzuong-Tsieng Moh, Professor of Mathematics, Ph.D. Purdue University 1969; algebraic geometry.

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Richard Penney, Professor of Mathematics, Ph.D. Massachusetts Institute of Technology 1971; group representations, harmonic analysis, several complex variables.

Jonathon Peterson, Assistant Professor of Mathematics, Ph.D. University of Minnesota 2008; probability theory.

Arshak Petrosyan, Professor of Mathematics, Ph.D. Royal Institute of Technology, Stockholm 2000; partial differential equations.

Daniel Phillips, Professor of Mathematics, Ph.D. University of Minnesota 1981; partial differential equations, applied mathematics.

Herman Rubin, Professor of Statistics and Mathematics, Ph.D. University of Chicago 1948; statistics.

Antonio Sa Barreto, Professor of Mathematics, Ph.D. Massachusetts Institute of Technology 1988; partial differential equations.

Juan Santos, Professor of Mathematics, Ph.D. University of Chicago 1983; numerical analysis, applied mathematics.

Freydoon Shahidi, Distinguished Professor of Mathematics, Ph.D. Johns Hopkins University 1975; automorphic forms.

Jie Shen, Professor of Mathematics, Ph.D. Université de Paris-Sud 1987; numerical analysis, pde, scientific computing.

Robert Skeel, Professor of Computer Science and Mathematics, Ph.D. University of Alberta 1974; scientific computing, computational biology.

Plamen Stefanov, Professor of Mathematics, Ph.D. Sofia University 1988; partial differential equations, inverse problems, mathematical physics.

Andrew Toms, Associate Professor of Mathematics, Ph.D. University of Toronto 2002; operator algebras, C^* -algebras.

Monica Torres, Assistant Professor of Mathematics, Ph.D. University of Texas at Austin 2002; partial differential equations, calculus of variations.

Bernd Ulrich, Professor of Mathematics, Ph.D. University of Saarland 1980; commutative algebra.

Frederi Viens, Professor of Statistics and Mathematics, Ph.D. University of California, Irvine 1996; probability, stochastic processes, mathematical finance.

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Samuel Wagstaff, Professor of Computer Science and Mathematics, Ph.D. Cornell University 1970; number theory, information security.

Uli Walther, Professor of Mathematics, Ph.D. University of Minnesota 1999; algebraic geometry, commutative algebra.

Allen Weitsman, Professor of Mathematics, Ph.D. Syracuse University 1968; complex variables.

Jaroslav Wlodarczyk, Professor of Mathematics, Ph.D. Warsaw University 1993; algebraic geometry.

Jialin Xia, Assistant Professor of Mathematics, Ph.D. University of California Berkeley 2006; numerical linear algebra.

Dongbin Xiu, Professor of Mathematics and Earth and Atmospheric Sciences, Ph.D. Brown University 2003; stochastic modeling, multi-scale simulation.

Sai Kee Yeung, Professor of Mathematics, Ph.D. Columbia University 1989; differential geometry, complex manifolds.

Nung Kwan Yip, Professor of Mathematics, Ph.D. Princeton University 1996; partial differential equations.

Eleftherios Zachmanoglou, Professor of Mathematics, Ph.D. University of California, Berkeley 1962; partial differential equations.