

THE FACULTY AND THEIR RESEARCH AREAS

Ian Aberbach, PhD (University of Michigan, 1990) Commutative Algebra
Nakhle Asmar, PhD (University of Washington, 1986) Harmonic Analysis
William Banks, PhD (Stanford University, 1994) Cryptography, Number Theory
Peter Casazza, PhD (University of Iowa, 1972) Frame Research Group, Operator Theory
Calin Chindris, PhD (University of Michigan, 2005) Representation of Theory of Algebras
Tanya Christiansen, PhD (Massachusetts Inst. of Tech., 1993) Scattering Theory, Partial Differential Equations, Spectral Theory
S. Dale Cutkosky, PhD (Brandeis University, 1985) Algebraic Geometry, Commutative Algebra
Stamatis Dostoglou, PhD (University of Warwick, England, 1990) Mathematical Physics, Fluid Mechanics
Dan Edidin, PhD (Massachusetts Inst. of Tech., 1991) Algebraic Geometry, Frame Research Group
Loukas Grafakos, PhD (University of California, Los Angeles, 1989) Harmonic Analysis
Giovanna Guidoboni, PhD (University of Ferrara, Italy, 2004) Math Modeling, Fluid Mechanics
Asma Harcharras, PhD (Paris 6 University, France, 1997) Functional Analysis
Adam Helfer, PhD (Oxford University, England, 1986) Differential Geometry, Mathematical Physics, Relativistic Physics
Steve Hofmann, PhD (University of Minnesota, 1988) Geometric Measure Theory, Harmonic Analysis, PDEs
Alexander Koldobsky, PhD (St. Petersburg State University, Russia 1982) Convex Geometry, Functional Analysis, Harmonic Analysis, Prob. Theory
Yuri Latushkin, PhD (Odessa University, USSR, 1982) Dynamical Systems, Fluid Mechanics, Operator Theory, PDEs, Spectral Theory
Charles Li, PhD (Princeton University, 1993) Dynamical Systems, Fluid Mechanics, PDEs
Konstantin Makarov, PhD (Leningrad State Univ., USSR, 1985) Math Physics, Operator Theory, PDEs, Scattering Theory, Spectral Theory
Dorina Mitrea, PhD (University of Minnesota, 1996) Harmonic Analysis, PDEs
Marius Mitrea, PhD (University of South Carolina, Columbia, 1994) Geometric Measure Theory, Harmonic Analysis, PDEs
Stephen Montgomery-Smith, PhD (Cambridge University, England, 1989) Fluid Mechanics, Frame Research Group, PDEs, Prob. Theory
Carlo Morpurgo, PhD (Washington University, 1993) Harmonic Analysis, Isoperimetric Inequalities, Spectral Theory
Michael Pang, PhD (London University, England, 1988) PDEs
Peter Pivovarov, PhD (University of Alberta, Canada, 2010) Convex Geometry, Functional Analysis, Isoperimetric Inequalities, Probability
Zhenbo Qin, PhD (Columbia University, 1990) Algebraic Geometry
Jan Segert, PhD (Princeton University, 1987) Differential Geometry, Math Physics
Hema Srinivasan, PhD (Brandeis University, 1986) Commutative Algebra
Shuichiro Takeda, PhD (University of Pennsylvania, 2006) Number Theory, Representation Theory
Allanus Tsoi, PhD (University of Alberta, Canada, 1990) Math Finance, Probability Theory
Junwu Tu, PhD (University of Wisconsin, Madison, 2011) Algebraic Geometry, Differential Geometry, Topology
Petros Valettas, PhD (University of Athens, Greece, 2012) Convex Geometry, Probability, Functional Analysis
Igor Verbitsky, PhD (Kazan State University, Russia, 1979) Harmonic Analysis, PDEs
Samuel Walsh, PhD (Brown University, 2010) Dynamical Systems, Fluid Mechanics, PDEs
Shuguang Wang, PhD (Oxford University, England, 1990) Differential Geometry
Dana Weston, PhD (University of Illinois, Urbana-Champaign, 1986) Commutative Algebra
Qi Zhang, PhD (Duke University, 1990) Algebraic Geometry

Graduate Studies in Mathematics



 University of Missouri

Why Study at MIZZOU?

- The Graduate Program in Mathematics is large enough to encompass research and courses in many areas, yet small enough to remain responsive to the needs of individual students. There are approximately 80 graduate students, 40 professors, and 5 postdoctoral and visiting researchers .
- Faculty include a Sloan Research Fellow, an invited speaker at the International Congress of Mathematics, and three American Mathematical Society Fellows.
- Past graduate students include an invited speaker at the International Congress of Mathematics, two Sloan Research Fellows and a winner of the Sadosky Prize.
- The math department houses the Frame Research Center (FRC) (framerc.org). The FRC conducts research in applied mathematics supported by the National Science Foundation and the Department of Defense. The FRC also has interdisciplinary research projects with the College of Engineering, the School of Medicine and the Department of Computer Science. PhD students in the FRC have opportunities to work with faculty and postdocs as well as visiting associated faculty at other institutions from around the world to broaden their education as well as taking part in joint research projects.

TEACHING ASSISTANTSHIPS TUITION SUPPORT PROGRAM

The Mathematics Department offers Teaching Assistantships and tuition waivers for qualified graduate students.



The Mathematical Sciences Building houses a library with more than 34,000 volumes and 430 journal titles. MU students have access to an extensive array of computing resources.

RESEARCH

The active areas of research include: algebraic geometry, analysis (real, complex, functional and harmonic), analytic functions, applied mathematics, financial mathematics and mathematics of insurance, commutative rings, scattering theory, differential equations (ordinary and partial), differential geometry, dynamical systems, general relativity, mathematical physics, number theory, probabilistic analysis and topology.

PROGRAMS OF STUDY

The department offers graduate programs leading to a PhD, MS or MA degrees in mathematics. We also offer a Mathematics MS for teachers and a joint masters degree with economics.



COLUMBIA, MISSOURI is known as an ideal college town, combining small-town comforts, community spirit and low cost of living with big-city culture, activities and resources. Our city of more than 110,000 people is located midway between Missouri's largest cities, St. Louis and Kansas City. *Money* magazine, *Fortune* magazine, *U.S. News & World Report*, *Men's Journal*, *MSN.com* and other news entities have named Columbia, one of the best places in the United States to live because of its high quality of life. The American Institute for Economic Research ranked Columbia among the nation's top 10 college towns.



It's packed with restaurants and entertainment venues and hosts more than a dozen annual cultural festivals. The city boasts multiple city parks as well as Rock Bridge State Park and the MKT Trail for hiking and bicycling.

THE UNIVERSITY

Considered one of the nation's top-tier institutions, Mizzou has a reputation of excellence in teaching and research, and is the flagship campus of the four campus University of Missouri System. It is one of only 34 public universities, and the only public institution in Missouri, to be selected for membership in the Association of American Universities. MU offers more than 280 degree programs — including more than 75 online degree options — and is designated as comprehensive doctoral with medical/veterinary by the Carnegie Foundation for the Advancement of Teaching.

APPLICATION

Applicants will need to submit an undergraduate transcript and three recommendations. The GRE is required for the doctoral program and strongly advised for other applicants. International students are required to submit TOEFL (Internet based) or IELTS scores.

Applications are available online:
math.missouri.edu/grad/apply