

GRADUATE PROGRAMS IN MATHEMATICS

An Overview for Prospective Students



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GENERAL INFORMATION

Applications

The department will invites applications to all degree programs once a year for admission to the autumn semester. Application deadline for full consideration for all degrees is **December 15th**. Later application will be considered on a stand-by vases. Detailed information about the application procedure and expected preparations can be found at

https://math.osu.edu/grad/future/apply

Contacts

All inquiries from prospective students and communication about our program and applications procedures should be directed to

grad-info@math.osu.edu

The email account will also be used to extend offers of admission and support, or inform students about their wait list status.

FACULTY & RESEARCH

Graduate Faculty

The Ohio State mathematics department comprises currently **66** graduate faculty on the main Columbus campus. Additional there are 21 faculty on branch campuses who can and frequently do supervise main campus dissertations. There are thus about **87** professors that doctoral of master's student can ask to serve as their dissertation or thesis advisors.

Our faculty members are actively engaged in supporting a vigorous research environment through top-level research publications, an abundance of research seminars, numerous sources of grant support, a large visitor and post-doctoral program, frequently hosted conferences of national reach, and research collaborations all over the world. In addition, several joint faculty appointments support interdisciplinary research projects with other departments at Ohio State, such as several life science disciplines, computer science, and statistics. Other OSU units collaborating with our department include, for example, the medical center, physics, engineering, and education.

An increasing number of our faculty are involved in developing new graduate degree programs or improving existing ones, organizing working groups that integrate student, post-doc and faculty participation around a topic, as well as seeking funding for graduate student support from many sources. Graduate advising is also a major factor in the evaluation of faculty in our department.

Opportunities in Breadth and Interaction

Thanks to the large size of our faculty nearly every area of mathematics is represented in our program. One immediate implication is that our program is able to offer on a regular basis a wide variety of courses that provide our students with a broad intellectual formation and solid skill sets in many disciplines of mathematics.



At a more advanced level the breadth in mathematical research in our program offers unique opportunities for students who would like to explore directions before committing to a research area as well as students who would like to combine or work at the interface of several fields of mathematics.

Most research represented in our program is also characterized by the combining methods and perspectives of several overlapping areas of mathematics. This positions our graduates well in a scientific environment that demands more and more versatility of

professional mathematicians in order to be successful in academic careers. Research in our program also, very often, connects to deeper mathematics questions arising in other disciplines leading to collaborations with other departments around campus in both traditional and innovative combinations of interests. This opens additional career paths to students working in such interdisciplinary fields.

New Hires and Innovative Directions

New faculty hires over the last few years have additionally invigorated our research program by strengthening core areas and adding original new research directions. Several recent additions have emphasized research that combines computational methods with topics in pure mathematics, often with novel cross-disciplinary components.

This year we are adding at least six new graduate faculty, emphasizing expertise that combines harmonic analysis, probability theory, and applied themes (such as signal processing) but also expanding into new aspects of algebraic geometry, representation theory, and applied topology.

As a result of prior hiring, our program now also boasts one of the premier center in the world in *Topological and Geometric Data Analysis*, a young area that draws both from sophisticated methods in algebraic and geometric topology as well as cutting edge research in computer science. Other examples of hires at the interface of computation, statistics, and pure mathematics are in computational number theory, statistical graph theory, and probabilistic topology.

Additionally, several faculty with very active research programs have joined our program in the last couple of years, strengthening research directions that are already represented in our program by well established and renown research groups. These areas of expansion include algebraic geometry, combinatorics, ergodic theory, dynamical systems, complex analysis, mathematical biology, and topology.

Traditional Strengths

Among the better known traditional strengths of our program is number theory, as our department houses the premier research journal in the area and has hosted numerous special programs and conferences in recent years. Several activities focus especially on deep and exciting connections with ergodic theory, another strongly represented area in our program with equally many students and renown faculty. Moreover, our topology group



has a traditionally strong presence with many students, faculty, and post-docs, particularly in the specialties geometric group theory, low-dimensional topology, and various other directions in algebraic and differential topology.

The *Mathematical Biosciences Institute* (MBI, see http://mbi.osu.edu/) at Ohio State – one of the seven major NSF-funded mathematical sciences institutes in the United States – is the focal point of our large research group in mathematical biology. It includes about ten mathematics professors in addition to numerous interdisciplinary appointments and affiliated faculty from other departments. Much of the mathematics involved in this area ties into our prolific research groups in PDE, dynamical systems, and applied mathematics, but also benefits from collaboration with life science departments, medical units across campus, as well as large number of post-docs visiting the MBI each year. Similarly, other faculty working in applied mathematics and numerical analysis maintain lively collaborations with Ohio State's large engineering and computer science departments.

In addition, several smaller, but nonetheless very active, research groups complement the wide spectrum of mathematics represented in our program. These encompass, for example, logic and foundations, real and complex analysis, differential geometry and geometric analysis, noncommutative geometry and operator algebra, representation and Lie theory, ring and group theory, as well as mathematical physics and financial mathematics.

Exploring our Faculty

The attached list of current and incoming graduate faculty at our department contains keyword descriptions of their research as well as their contact information. Interested students should feel free to contact faculty directly with questions about their research. (The organization by subject areas in the list may at times be arbitrary since research areas have become more and more cross-

disciplinary).

In addition, our program runs the *Invitations to Mathematics*, a weekly student colloquium with lectures delivered mostly by our graduate faculty and targeting beginning doctoral students who are looking for research areas and advisors. Browsing the lecture announcements and abstracts may serve as an additional source of topics that are researched at our department.

Miscellaneous Highlights

Here a few more facts that underline the high level and significant impact of the research conducted at our department:

- Over the past seven years **five** of our incoming faculty were awarded the prestigious *Sloan Fellowships*, see for example this article . Moreover, **four** of our younger faculty have recently won prestigious *NSF-CAREER* awards.
- The *Mathematics Research Institute* (MRI, see http://www.mri.osu.edu) combines department and college resources as well as external grants to fund a variety of conferences, special years on selected topics, visitor programs, seminars, and travel support.
- In the last three years **four** *Field Medalists* have visited our department for special lectures, namely, *Edward Witten*, *Elon Lindenstrauss*, *Alain Connes*, and *Terence Tao*.
- Thirteen of our faculty members are *Fellows of the American Mathematical Society*.
- Moreover **four** faculty in our program are *AAAS Fellows*, one of whom is serving as chair-elect of the mathematics section of AAAS. Also **one** of our faculty is a member of the *National Academy of Science*, and several more members of our program have had prestigious invitations as speakers to the *International Congress of Mathematicians* in recent years.

GRADUATE STUDENT LIFE

Demographics

There are more than 130 students in our graduate program of which about around 110 are pursuing a doctoral degree and about 25 are in the MMS program. Nearly a quarter of our graduate students are female. The nationalities represented in our department are illustrated in the chart on the right. Students enter the program coming from wide range of institutions from small liberal arts colleges to large research universities with similarly diverse educational backgrounds



including both Bachelors and Masters degrees. Our program has thus ample experience and resources to accommodate students widely varying academic and personal backgrounds.

Academic and Social Life

The community of graduate students in our department is not only characterized by its diversity but also by a pronounced cooperative and supportive atmosphere among peers. Shared offices provide the environment in which groups form that work together on course assignments, exams preparations, or grading in the beginning years. Graduate students show support by helping each other through courses and examinations, peer-mentoring incoming students, and nominating each other for teaching awards.

Recently, our graduate students founded a local student chapter of the *Association for Women in Mathematics* (AWM) which is maintaining an active program and which is advised by Prof. Keyfitz, a former president of the AWM. In addition, students established the *Mathematics Graduate Student Association* (MGSA) as a registered students organization which is conducting student-only lectures on a broad range of subjects as well as social events.



WOMEN IN MATHEMATICS

There are many further settings for more research oriented interactions as well. Particularly, in recent years students by themselves or students together with faculty and post-docs have been



organizing informal working seminars around numerous special topics, for example, in number theory, algebraic geometry, several in topology, ergodic theory, probability theory, or applied mathematics. Students often collaborate with faculty from Ohio State but also other institutions as well as other students in our program on research projects and articles.

Further more informal and social interactions occur in the lounge rooms and daily tea area, during

our annual departmental picnics and special events, as well as outside the department for a wide range of extracurricular activities.

DOCTORAL (PH.D.) PROGRAM

The Doctor of Philosophy degree enables its recipients to conduct independent research, produce original scholarly work, and serve in faculty position at colleges and universities. Nothing is therefore more important in the formation of a Ph.D. student than the guidance and training by researchers and faculty advisors. We believe that the Mathematics Graduate Program at the Ohio State University provides a tremendously broad and exciting range of high caliber research opportunities and a faculty that is uniquely dedicated to graduate advising.

Academic Progression & Curriculum

The path to the Ph.D.-degree is roughly divided into two parts separated by the candidacy exam. During the first part students are expected to pass the two qualifying requirements and fulfill a few basic course requirements. As doctoral candidates students focus in the second part entirely on research and writing their dissertation. The details of the various pre-candidacy requirements can be found at

http://math.osu.edu/grad/current/phd

In the past two years the department has substantially revised its pre-candidacy requirements in our doctoral program with the aim of leading students more quickly to research and reducing average times to graduation, while still guaranteeing a thorough training in core mathematical subjects.

In outline, our real analysis and abstract algebra qualifying requirements may be fulfilled by passing the year-long course sequences in analysis and algebra with sufficient grades. As an

alternate option the course work can be replaced (or remedied) by passing annually offered exams as well, and the graduate committee may count additional course work in borderline situations. The candidacy examination will focus entirely on the proposed research area, and aims to provide the

students with a headstart into the subsequent dissertation topic.

As a result of these adjustments we expect all students to complete their degree in under six years. Faculty committees are also currently considering curricular options that are more closely tailored to students with interests in applied mathematics. The effort reflects our commitment to existing and newly emerging interdisciplinary areas in mathematics – both at the level of faculty hiring and graduate education.



The doctoral completion rate (from entry to degree) has steadily improved over recent years and we currently estimate this ratio to be around or exceeding 70% – which is significantly above the national average of about 50%. The majority of those leaving before degree do so for reasons not directly related to academic requirements but more often due to personal reasons or because they develop career interests outside of doctoral studies in mathematics.

Financial Support

All graduate students in good academic standing are supported either as graduate teaching associates (GTAs), graduate research associates (GRAs), or as University Fellows during the regular academic year. In all cases support includes a full tuition waiver. Students who have been supported in the nine months of the preceding academic year also have an automatic summer tuition waiver regardless of summer support. Additionally GA and fellowship support includes a generous (85%) subsidy of health insurance premiums as detailed in http://hr.osu.edu/hrpubs/index.aspx#student. Beyond first year fellowships for selected students fulfilling university criteria, there are additional fellowship and support opportunities for more advanced students:

Every year the department offers between 20 and 30 SGA/RGF Fellowships that support students for one semester without teaching duties at regular stipend levels in order to allow them to focus on their research, complete thesis or other academic projects, or travel to workshops and conferences.

The recently awarded NSF RTG grant of \$1.7 million will provide further off-teaching support for 5 to 8 domestic students per year in the areas of pure and applied topology.

Many faculty in our department also hold research grants that can support students on GRAs, especially during the summer months. In addition a limited number of teaching and research positions are available for summer support each year. Typically over 90% of all students who remain enrolled over the summer and apply receive financial support from one of these sources.

Students in their dissertation years can also compete for the highly prestigious Presidential



Fellowships which our graduate school awards to the very best students in the entire university. Our program the top six or seven program on campus that win most of these awards every year.

Finally, the department makes travel funds available that allow students to visit conferences, workshops, and collaborators. Many students take advantage of this opportunity to connect to the larger scientific community, collaborate outside of the program, present their work, and thus improve their chances in securing academic jobs.

Graduations and Job Placements

Over the past four years our doctoral program has awarded on average about twenty Ph.D.degrees per year. An ever increasing number of our graduating students have articles published or in submission as well as active outside collaborations by the time of their graduation.

In recent years about half of our Ph.D.-graduates placed in post-doctoral positions in major research oriented programs both in the US and other countries. Among the institutions where our students found research positions over the last five to six years are *Princeton University (2), IAS Princeton, University of Chicago, Yale University (2), MSRI, University of Michigan (2), Cal-Tech (3), Northwestern University, University of Minnesota (2), University of Texas - Austin, Rutgers University (2), University of Utah, University of Bristol, Duke University, Vanderbilt University (2), York University, Indiana University, UC Irvine, Purdue University (2), Texas A&M University, University of Illinois at Chicago, University of Iowa, University of Connecticut, Technion-Israel, University, SUNY Binghampton,* as well as numerous other prestigious international institutions. Among these recent graduate some have already gone on to tenure track professorships at major research schools such as *SUNY Stony Brook* and *Texas A&M*.

Other graduates continue academic careers as professors in smaller more teaching oriented colleges and universities. Each year a few of our students also enter private industry careers such as in software development, finance, and R&D, and occasionally some enter government agencies such as NSA. Still others pursue additional doctoral degrees, for example, in physics or financial mathematics.

The department typically accommodates its recent graduates who are still looking for academic jobs with lecturer positions for at least a year until they found employments that align with their career goals.

MASTER OF MATHEMATICAL SCIENCES

Since 2009 the Ohio State mathematics department offers a Master of Mathematical Sciences (MMS) degree. The MMS is a professionally oriented, interdisciplinary two-year master's programs that includes practical experiences and thesis research in collaboration with several partnering units on the Ohio State campus. The MMS currently encompasses the following three specialization tracks:

- Mathematical Biosciences (since 2009)
- Mathematics for Educators (since 2010)
- Computational Sciences (since 2012)

More detailed information about the degree and these tracks can be found at

http://math.osu.edu/grad/current/mms

The curriculum of each degree track consists of both core courses that provide targeted mathematical background as well as a palette of elective courses in partnering disciplines to which the acquired mathematical skills are applied. Furthermore, MMS students in all tracks will be involved in individual projects or practical experiences during the summer between their first and second year. Projects are supervised by both a mathematics advisors and, typically, a faculty member from partnering department. Results from these experiences are incorporated in a thesis that is

written and defended in the second year of study.

The training provided by this degree program and the tangible outcomes of its hands-on experiences have helped graduates find placements in research & development-oriented positions in

industry as well as challenging opportunities in the public sector and education. A large portion of graduated have also gain admission to competitive interdisciplinary PhD programs.

The interdisciplinary nature of the program is supported both by the vast opportunities for collaboration at OSU as well as an emphasis on flexibility in the choices of applications. Students are encouraged and to make their own connections with units on campus and often succeed to expand the scope of the program with new creative collaborations fitting their particular specialization track.

Students progressing in the MMS program receive financial support as teaching associates and may compete for the same university and departmental fellowships that are available to doctoral students (see previous section). The following paragraphs provide more specific information for each track:

Mathematical Biosciences:

The Biosciences track, the first specialization introduced to the MMS degree, builds on a strong representation of our faculty in mathematical biology as well as the nationally renown Mathematical Biosciences Institute (MBI). Research conducted at the MBI has led to

many collaborations of our program with numerous life science departments on campus, the several research divisions of the OSU Wexner Medical Center, as well as off-campus facilities such as the Nationwide Children's Hospital or Stone Laboratory on Lake Erie.

These connections provide a vast range of projects and mentors that students can choose from and the great majority of projects and MMS theses result in publications in mainstream scientific journals. Students in this track will also participate in MBI activities such as summer research programs and colloquia. The training in this specialization aims to equip students with the skills to model problems in the life sciences in mathematical terms and solve these with analytical and numerical methods in order to explain, predict, or optimize underlying biological situations. The current emphasis is on continuous modeling,

differential equations, and numerical analysis.

Prospective careers are in bio-medical research and industry, employment in the public sector such as with Health & Human Services (HHS) or Centers for Disease Control (CDC) or in education. The plurality of our graduates enter PhD programs in applied and interdisciplinary mathematically oriented fields. A more detailed break-down of placements is depicted in the chart on the right.

Mathematics for Educators:

The Educators track of the MMS degree program serves current and prospective mathematics educators and collaborative users of core mathematics in both educational and industrial settings. The goal is to raise the mathematical formation of students and to enhance their ability to communicate mathematics at a level sought by public and private sector employers and advanced academic programs.

The program draws on the expertise of the Teaching & Learning department of the OSU College of Education and Human Ecology (EHE/T&L), the Mathematical Sciences

Learning Center (MSLC), the department's eLearning group that involved in the development of Massive Open Online Courses (MOOCs), as well as various other departments on campus such as computer science, linguistics, economics, or communication. Many creative and innovative projects and theses have emerged from these activities and have provided insight into learning and cognition driven by quantitative analysis.

Emphasis in the course curriculum is placed on mathematical training with additional opportunities to participate in seminars offered by EHE/T&L. Although teacher licensure is not an objective of this degree program (as it may be for M.Ed. and MAT degrees) pathways to becoming licensed can be found in collaboration with EHE/T&L.

Career opportunities for graduates include doctoral programs in mathematics education and related fields, leadership positions of school districts, teaching faculty positions in community colleges, as well as employment in the private sector in jobs that require the communication of modern mathematics. A basic breakdown of job and academic placements of graduates from this track is illustrated in the chart above.

Computational Science:

The youngest specialization in the MMS degree program takes advantage of the wide range of departments and units on campus that provide opportunities to collaborate in computational projects. Most prominently, the College of Engineering comprises eleven highly ranked departments (including computer science) with nearly 300 faculty. The mathematics department collaborations with the College of Engineering that include, especially, the areas of computational topology, topological data analysis, and fluid dynamics. Other partnering units, which may serve sa sources of computational projects, include the MBI, physical and mathematics sciences departments, as well as other related disciplines such as computer science and economics. Students can gain also access to the resources of the Ohio Supercomputer Center.

The curriculum of the this track provides students with the mathematical tools in numerical analysis, finite element methods, and applied differential equations to tackle computational challenges in a broad range of applications. Electives for this track currently consist of a substantial list of mathematically oriented courses offered by the college of engineering as well as mathematics courses on computational methods. The former include subjects such as computational electromagnetics, mechanics, fluid and aerodynamics, as well as algorithms and graphics.

The track is currently under further development by a group of six computationally oriented

faculty at our department with the aim to significantly broaden the scope of electives and projects. New directions may include topological data analysis, computational geometry, computational number theory, signal processing, compressed sensing, or statistical mechanics. Students are encouraged to propose electives and research directions themselves.

The computational science track connects its students to a plethora of career paths in industries as well as government agencies with heavy computational and data analytic needs. Further, the combination of computational expertise and rigorous mathematical formation puts graduates in a strong position to enter competitive doctoral programs in applied mathematics and related fields.

MASTER OF ACTUARIAL AND QUANTITATIVE RISK MANAGEMENT

The Master of Actuarial and Quantitative Risk Management (MAQRM) is a new graduate degree program which has been officially approved in March of 2016. This master degree is based on a tremendously successful undergraduate degree program in actuarial sciences that our department has been offering for over 35 years.

The MAQRM provides a curriculum that combines training in modern mathematical finance and in actuarial risk management - two areas that have becomes increasingly intertwined creating a demand in graduates that have acquired expertise in both. The curriculum includes newly developed courses in risk management, and financial stochastic calculus. Several of these courses will be taught by highly accomplished practitioners in the finance and actuarial science industry. In addition students will be exposed to courses in actuarial sciences, financial economics, statistics, and numerical analysis.

The program utilizes well established connections to the statewide insurance industry and well as other businesses involved in risk management in order to create practical experiences and additional mentoring during the two years of study in the MAQRM. These connections will also be instrumental in job placements of graduates.

As opposed to the PhD and MMS programs, however, students in the MAQRM will generally not be supported by graduate associateships.

GRADUATE FACULTY LIST

Find below the current list of graduate faculty available for dissertation and thesis advising for all degrees. The list includes basic research interests as well as contact information. Prospective students should feel free to contact any faculty member about their research. Since most of our faculty are not directly involved in the admission process any questions about applications should be directed by email to grad-info@math.osu.edu.

Number Theory	Algebraic Geometry
Cogdell, James PhD: Yale University (1981)	As Lesser De 11 PhD: University of Michigan (2000)
COLUMBUS cogdell.1@osu.edu 614-292-8678	Anderson, David PhD: University of Michigan (2009)
Research: Number Theory Analytic Number theory	COLUMBUS anderson.2804@osu.edu 614-292-5/54
L-functions - Converese Theorems.	<i>Research:</i> Algebraic geometry, Combinatorics, Representation theory, Schubert varieties and toric varieties, Equivariant cohomology and its applications
Hiary, GhaithPhD: University of Minnesota (2008)	
COLUMBUS hiary.1@osu.edu 614-292-4013	Ban, ChunshengPhD: Purdue University (1990)
Research: Computational number theory, analytic number	COLUMBUS ban.1@osu.edu 614-292-5331
theory, random matrix models for L-functions, asymptotic analysis & interests in probability and numerical analysis.	Research: Algebraic Geometry - Singularity Theory - Mathematical Finance.
Holowinghy Bomon BhD: Butgara University (2006)	Cueto, Maria PhD: Univ. of California at Berkeley (2010)
Country, Roman PhD: Rutgers University (2006)	COLUMBUS cueto.5@osu.edu 614-688-5773
COLUMBUS noiowinsky.1@osu.edu 614-292-3941	Research: Algebraic Geometry, Combinatorics, Non-
Research: Number Theory: Analytic Methods, Automorphic forms, L-functions, Sieve Methods, Quantum Unique Eroodicity	Archimedean Geometry, Tropical Geometry
Ligourui	Clemens, Herb PhD: Univ. of California at Berkeley (1966)
Luo, Wenzhi PhD: Rutgers University (1993)	COLUMBUS clemens.43@osu.edu 614-292-2789
COLUMBUS luo.43@osu.edu 614-292-5751	Research: Algebraic Geometry, Geometry and deformation
Research: Number Theory, Analytic and Arithmetic Theory of Automorphic Forms and Automorphic L-Functions	theory of complex projective varieties, Hodge theory, Algebraic Cycles
Mandamahaid David PhD: Vale University (1981)	Joshua, Roy PhD: Northwestern University (1983)
APTS & SCIENCES monderschold 1@ocu odu 614 202 2226	COLUMBUS joshua.1@osu.edu 614-292-4014
B B B B C B C C C C C C C C C C	Research: Algebraic and Arithmetic Geometry, K-Theory,
Research: Number Theory, Supercuspidal Representations, Automorphic Forms, Theta-correspondences.	Singular Varieties, Computational aspects of geometry, Quantum computation
Friesen, Christian PhD: Brown University (1989)	Katz. Eric PhD: Stanford University (2004)
MARION friesen.4@osu.edu 614-292-9133	COLUMBUS katz.60@osu.edu 614-247-1988
Research: Algebraic	Research: Tropical Geometry, Combinatorial Algebraic Geometry, Arithmetic & Enumerative Geometry,

Tseng, Hsian-Hua PhD: Univ. of California at Berkeley (2005)	Loper, KennethPhD: University of Wisconsin (1985)
COLUMBUS tseng.109@osu.edu 614-292-5581	NEWARK loper.4@osu.edu 740-366-3321
Research: Algebraic Geometry, Symplectic Topology ජං Geometry, Mirror Symmetry, Gromov-Witten Theory	Research: Commutative Rings, Nagata & Kronecker Function Rings, Prüfer-like and almost Dedekind domains
	Pure & Applied Topology &
Caibar, MirelPhD: University of Warwick (1999)	Computational Geometry
MANSFIELD caibar.1@osu.edu 614-688-3177	Broaddus Nother PhD: Columbia University (2003)
Research: Algebraic Geometry, Singularity Theory, Hodge	Country broaddus 0@ocu odu 614 202 0605
Тисоту	Research: Countrie Crout Theory Totology Low dim
Kennedy, Gary PhD: Columbia University (1981)	Topology
MANSFIELD kennedy.28@osu.edu 419-755-4291	Devic Michael PhD: Dringston University (1975)
Research: Algebraic Geometry, Enumerative geometry, Intersection theory	COLUMPUS davis 12@osu adu 614.202.4886
	Research: Topology Connectic Craut Theory Actionical
McEwan, Lee PhD: Columbia University (1985)	Manifolds & Spaces, Non-positive Curvature
MANSFIELD mcewan.1@osu.edu 419-755-4257	Day Tamal PhD: Purdue University - Computer Science
Research: Algebraic Geometry, Topology of Algebraic Singularities	COLUMBLIS dev 8@osu edu 614-292-3563
ongun neo	Research: Computational geometry computational topology
Ring & Module Theory	geometric modeling, computer graphics, mesh generation
Herzog, Ivo PhD: University of Notre Dame (1989)	
LIMA herzog.23@osu.edu 419-995-8293	Fiedorowicz, ZbigniewPhD: University of Chicago (1975)
Research: Ring Theory, Module and Representation Theory,	COLUMBUS fiedorowicz.1@osu.edu 614-292-0724
Category Theory	Research: Algebraic Topology, Algebraic K-theory, Homotopy theory, Quantum Groups, Category Theory
Rizvi, Syed TariqPhD: McMaster University (1981)	
LIMA rizvi.1@osu.edu 419-995-8211	Fowler, James PhD: University of Chicago (2009)
Research: Theory of Rings and Modules, Injective/Projective	COLUMBUS fowler.291@osu.edu 614-292-4019
Modules, Baer Modules and Rings, Rickart Modules, Ring and Module Hulls and their applications.	Research: Topology, Geometric Topology of Manifolds, Geometric Group Theory, Surgery Theory, K- Theory, MOOCs
Roman, Cosmin PhD: The Ohio State University (2004)	
LIMA roman.37@osu.edu 419-995-8644	Kerler, ThomasPhD: ETH-Zurich - Theor. Physics (1992)
Research: Ring Theory, Module Theory, Injectivity-Like	COLUMBUS kerler.2@osu.edu 614-292-5252
<i>Properties</i> , <i>Relations Between Modules and Their Endomorphisms Ring, Theory of Rings and Modules</i>	Research: Topology, 3-dim Manifolds and Knots Invariants, Topological Quantum Field Theories, Mapping Class Groups, Quantum Algebra
Yousif, MohamedPhD: University of Calgary (1986)	
LIMA yousif.1@osu.edu 419-995-8368	Krishnan, Sanjeevi PhD: University of Chicago (2006)
Research: Rings and Modules, Injective and Continuous Rings	COLUMBUS krishnan.118@osu.edu 614-292-8434
and Modules, Pseudo and Quasi-Frobenius Rings	<i>Research:</i> Algebraic Topology and Applications to Optimization, Data Analysis, and dynamics.

Latont, Jean-Francois PhD: University of Michigan (200)	Differential Coometry
COLUMBUS lafont.1@osu.edu 614-292-58	4
Research: Topology - Differential Geometry, Geometric Grou	p Derdzinski, Andrzej PhD: Uniwersytet Wrocławski (1976)
Theory - K-Theory	COLUMBUS derdzinski.1@osu.edu 614-292-4012
	Research: Differential Geometry - Einstein Manifolds
Mémoli, Facundo PhD: University of Minnesota (200	$\frac{1}{2}$
COLUMBUS memoli.2@osu.edu 614-292-558	5 Guan, Bo PhD: University of Massachusetts (1992)
Research: Shape comparison & Matching, Computation Topology, Topological data analysis, Machin learning, clustering.	<i>Research:</i> Partial Differential Equations - Geometric Analysis
O L C : 1 (Db D: Bree day University (109	Zheng, Fangyang PhD: Harvard University (1989)
Ogle, Crichton PhD: Brandeis University (198-	COLUMBUS zheng.31@osu.edu 614-292-0842
COLUMBUS ogle.1@osu.edu 614-292-083 Research: Topology - K-Theory	6 Research: Differential Geometry, Kaehler and Hermitian geometry, Nonpositively Curved Manifolds, Rigidity Submanifolds
Sidiropoulos, Anastasios PhD: MIT – Computer Sci. (200	3)
COLUMBUS sidiropoulos.1@osu.edu 614-292-024	8 Stenzel, Matthew PhD: MIT (1990)
Research: Computational Geometry, High-dimensional, an	d NEWARK stenzel.3@osu.edu 740-366-3321
metric geometry, Algorithms and on planar graph and surfaces, Computation of Low-dimension Matric Embaddings	s, Research: Differential Geometry, Several Complex Variables
Metric Emocuarings.	Combinatorics, Probability
Chmutov, Sergei PhD: Moscow State University (198	E Gravh Theory
MANSFIELD chmutov.1@osu.edu 419-755-428	
Research: Algebraic Geometry and Topology. Knot & Gran	h Falkner, Neil PhD: University of British Columbia (1978)
	$f_{14} = 0.0000000000000000000000000000000000$
Theory	COLUMBUS falkner.1@osu.edu 614-292-8025
Theory	COLUMBUS falkner.1@osu.edu 614-292-8025 Research: Probability Theory, Brownian Motion
Theory PhD: University of Notre Dame (2008)	COLUMBUS falkner.1@osu.edu 614-292-8025 <i>Research:</i> Probability Theory, Brownian Motion Kable Matthew PhD: University of Washington (2007)
Theory Theory Harper, John PhD: University of Notre Dame (2008) NEWARK harper.903@osu.edu 740-755-785	COLUMBUS falkner.1@osu.edu 614-292-8025 <i>Research:</i> Probability Theory, Brownian Motion Kahle, Matthew PhD: University of Washington (2007) COLUMBUS kable 70@osu.edu 614-292-5299
Theory Theory Harper, John PhD: University of Notre Dame (2008) NEWARK harper.903@osu.edu 740-755-785 Research: Topology, Homotopy Theory, Modules over Operact K-Theory & TO-Homology	COLUMBUS falkner.1@osu.edu 614-292-8025 Research: Probability Theory, Brownian Motion Kahle, Matthew PhD: University of Washington (2007) COLUMBUS kahle.70@osu.edu 614-292-5299 Research: Combinatorics Probability Research: Combinatorics Probability Theory Geometric
Theory Harper, John PhD: University of Notre Dame (2003) NEWARK harper.903@osu.edu 740-755-785 Research: Topology, Homotopy Theory, Modules over Operador K-Theory & TQ-Homology.	COLUMBUS falkner.1@osu.edu 614-292-8025 Research: Probability Theory, Brownian Motion B) Kahle, Matthew PhD: University of Washington (2007) COLUMBUS kahle.70@osu.edu 614-292-5299 Research: Combinatorics, Probability Theory, Geometric Group Theory, Mathematical Physics, Topology
Theory Theory Harper, John PhD: University of Notre Dame (2008) NEWARK harper.903@osu.edu 740-755-785 Research: Topology, Homotopy Theory, Modules over Operade K-Theory & TQ-Homology. Johnson, Niles PhD: University of Chicago (2009)	COLUMBUS falkner.1@osu.edu 614-292-8025 Research: Probability Theory, Brownian Motion Kahle, Matthew PhD: University of Washington (2007) COLUMBUS kahle.70@osu.edu 614-292-5299 Research: Combinatorics, Probability Theory, Geometric Group Theory, Mathematical Physics, Topology Topological Data Analysis
TheoryTheoryHarper, JohnPhD: University of Notre Dame (2003)NEWARKharper.903@osu.edu740-755-785Research: Topology, Homotopy Theory, Modules over Operad K-Theory & TQ-Homology.Johnson, NilesPhD: University of Chicago (2009)NEWARKjohnson.5320@osu.edu740-755-785	COLUMBUS falkner.1@osu.edu 614-292-8025 Research: Probability Theory, Brownian Motion Kahle, Matthew PhD: University of Washington (2007) COLUMBUS kahle.70@osu.edu 614-292-5299 Research: Combinatorics, Probability Theory, Geometric Group Theory, Mathematical Physics, Topology Topological Data Analysis 6 No. 10 (2017)
Theory Theory Harper, John PhD: University of Notre Dame (2003) NEWARK harper.903@osu.edu 740-755-785 Research: Topology, Homotopy Theory, Modules over Operack Johnson, Niles PhD: University of Chicago (2009) NEWARK johnson.5320@osu.edu 740-755-785 Research: Topology, Categorical and Computational Aspects	COLUMBUS falkner.1@osu.edu 614-292-8025 Research: Probability Theory, Brownian Motion Kahle, Matthew PhD: University of Washington (2007) Kahle, Matthew PhD: University Theory, Geometric Group Theory, Mathematical Physics, Topology Topological Data Analysis Matter PhD: Rutgers University (2010) PhD: Rutgers University (2010)
Harper, John PhD: University of Notre Dame (2003) NEWARK harper.903@osu.edu 740-755-785 Research: Topology, Homotopy Theory, Modules over Operate K-Theory & TQ-Homology. Johnson, Niles PhD: University of Chicago (2009) NEWARK johnson.5320@osu.edu 740-755-785 Research: Topology, Categorical and Computational Aspects Algebraic Topology, Picard/Brauer theory.	COLUMBUS falkner.1@osu.edu 614-292-8025 Research: Probability Theory, Brownian Motion Kahle, Matthew PhD: University of Washington (2007) COLUMBUS kahle.70@osu.edu 614-292-5299 Research: Combinatorics, Probability Theory, Geometric Group Theory, Mathematical Physics, Topology, Topological Data Analysis Mguyen, Hoi PhD: Rutgers University (2010) COLUMBUS nguyen.1261@osu.edu COLUMBUS Nguyen.1261@osu.edu
TheoryTheoryHarper, JohnPhD: University of Notre Dame (2003)NEWARKharper.903@osu.edu740-755-785Research:Topology, Homotopy Theory, Modules over Operad K-Theory & TQ-Homology.Johnson, NilesPhD: University of Chicago (2009)NEWARKjohnson.5320@osu.edu740-755-785Research:Topology, Categorical and Computational Aspects Algebraic Topology, Picard/Brauer theory .Rao, VidhyanathPhD: Case Western Reserve (198)	COLUMBUS falkner.1@osu.edu 614-292-8025 Research: Probability Theory, Brownian Motion Kahle, Matthew PhD: University of Washington (2007) COLUMBUS kahle.70@osu.edu 614-292-5299 Research: Combinatorics, Probability Theory, Geometric Group Theory, Mathematical Physics, Topology Topological Data Analysis Mguyen, Hoi PhD: Rutgers University (2010) COLUMBUS nguyen.1261@osu.edu 614-292-2789 Research: Combinatorics - Probability Theory - Random Matrices - Number Theory
TheoryTheoryTheoryTheoryHarper, JohnPhD: University of Notre Dame (2004)NEWARKharper.903@osu.edu740-755-785Research: Topology, Homotopy Theory, Modules over Operat K-Theory & TQ-Homology.Johnson, NilesPhD: University of Chicago (2009)NEWARKjohnson.5320@osu.edu740-755-785Research:Topology, Categorical and Computational Aspects Algebraic Topology, Picard/Brauer theory.Rao, VidhyanathPhD: Case Western Reserve (198)NEWARKrao.3@osu.edu740-366-934	COLUMBUS falkner.1@osu.edu 614-292-8025 Research: Probability Theory, Brownian Motion Kahle, Matthew PhD: University of Washington (2007) COLUMBUS kahle.70@osu.edu 614-292-5299 Research: Combinatorics, Probability Theory, Geometric Group Theory, Mathematical Physics, Topology Topological Data Analysis Nguyen, Hoi PhD: Rutgers University (2010) COLUMBUS nguyen.1261@osu.edu Matrices - Number Theory Research: Combinatorics - Probability Theory - Random Matrices - Number Theory
TheoryTheoryTheoryTheoryHarper, JohnPhD: University of Notre Dame (2004)NEWARKharper.903@osu.edu740-755-785Research:Topology, Homotopy Theory, Modules over Operad K-Theory & TQ-Homology.Johnson, NilesPhD: University of Chicago (2009)NEWARKjohnson.5320@osu.edu740-755-785Research:Topology, Categorical and Computational Aspects Algebraic Topology, Picard/Brauer theory .Rao, VidhyanathPhD: Case Western Reserve (198)NEWARKrao.3@osu.edu740-366-934Research:Topology - Homotopy Theory - K-Theory	COLUMBUS falkner.1@osu.edu 614-292-8025 Research: Probability Theory, Brownian Motion Kahle, Matthew PhD: University of Washington (2007) COLUMBUS kahle.70@osu.edu 614-292-5299 Research: Combinatorics, Probability Theory, Geometric Group Theory, Mathematical Physics, Topology, Topological Data Analysis Mguyen, Hoi PhD: Rutgers University (2010) COLUMBUS nguyen.1261@osu.edu Matrices - Number Theory Paquette, Elliot PhD: University of Washington (2013) COLUMBUS Paquette, Elliot
Harper, John PhD: University of Notre Dame (200. NEWARK harper.903@osu.edu 740-755-785 Research: Topology, Homotopy Theory, Modules over Operat K-Theory & TQ-Homology. Johnson, Niles PhD: University of Chicago (2009) NEWARK johnson.5320@osu.edu 740-755-785 Research: Topology, Categorical and Computational Aspects Algebraic Topology, Picard/Brauer theory. Rao, Vidhyanath PhD: Case Western Reserve (198) NEWARK rao.3@osu.edu 740-366-934 Research: Topology - Homotopy Theory - K-Theory	COLUMBUS falkner.1@osu.edu 614-292-8025 Research: Probability Theory, Brownian Motion State Probability Theory, Brownian Motion Kahle, Matthew PhD: University of Washington (2007) COLUMBUS kahle.70@osu.edu 614-292-5295 Research: Combinatorics, Probability Theory, Geometria Group Theory, Mathematical Physics, Topology Topological Data Analysis Nguyen, Hoi PhD: Rutgers University (2010) COLUMBUS nguyen.1261@osu.edu 614-292-2789 Research: Combinatorics - Probability Theory - Random Matrices - Number Theory Natrices - Number Theory 1 Paquette, Elliot PhD: University of Washington (2013) COLUMBUS paquette.30@osu.edu 614-292-5796
TheoryTheoryTheoryTheoryHarrer of only TheoryNewARKharper.903@osu.edu740-755-785Research: Topology, Homotopy Theory, Modules over Operad K-Theory & TQ-Homology.Johnson, NilesPhD: University of Chicago (2009)NEWARKjohnson.5320@osu.edu740-755-785Research:Topology, Categorical and Computational Aspects Algebraic Topology, Picard/Brauer theory .Rao, VidhyanathPhD: Case Western Reserve (198)NEWARKrao.3@osu.edu740-366-934Research:Topology - Homotopy Theory - K-TheoryYau, DonaldPhD: Massachusetts Institute of Technology	COLUMBUS falkner.1@osu.edu 614-292-8025 Research: Probability Theory, Brownian Motion Kahle, Matthew PhD: University of Washington (2007) COLUMBUS kahle.70@osu.edu 614-292-5299 Research: Combinatorics, Probability Theory, Geometria Group Theory, Mathematical Physics, Topology Topological Data Analysis Mguyen, Hoi PhD: Rutgers University (2010) COLUMBUS nguyen.1261@osu.edu 614-292-2789 Research: Combinatorics - Probability Theory - Random Matrices - Number Theory Paquette, Elliot PhD: University of Washington (2013) COLUMBUS paquette.30@osu.edu 614-292-5796 Research: Probability Theory, Random Geometry, Random Matrices Probability Theory, Random Geometry, Random Matrices Probability Theory, Random Geometry, Random Matrices Probability Combinatories
TheoryTheoryHarper, JohnPhD: University of Notre Dame (200.NEWARKharper.903@osu.edu740-755-785Research:Topology, Homotopy Theory, Modules over Operaa K-Theory & TQ-Homology.Johnson, NilesPhD: University of Chicago (2009)NEWARKjohnson.5320@osu.edu740-755-785Research:Topology, Categorical and Computational Aspects Algebraic Topology, Picard/Brauer theory.Rao, VidhyanathPhD: Case Western Reserve (198)NEWARKrao.3@osu.edu740-366-934Research:Topology - Homotopy Theory - K-TheoryYau, DonaldPhD: Massachusetts Institute of Technolog NEWARKYau.22@osu.edu740-366-919	COLUMBUSfalkner.1@osu.edu614-292-8025Research:Probability Theory, Brownian MotionKahle, MatthewPhD: University of Washington (2007)COLUMBUSkahle.70@osu.edu614-292-5299Research:Combinatorics, Probability Theory, Geometria Group Theory, Mathematical Physics, Topology, Topological Data AnalysisNguyen, HoiPhD: Rutgers University (2010)Columbusnguyen.1261@osu.edu614-292-2789Research:Combinatorics - Probability Theory - Randon Matrices - Number TheoryPaquette, ElliotPhD: University of Washington (2013)Columbuspaquette.30@osu.edu614-292-5796Research:Probability Theory, Random Geometry, Randon Matrices, Probabilistic Combinatorics.
TheoryTheoryTheoryTheoryPhD: University of Notre Dame (2000)NEWARKharper.903@osu.edu740-755-785Research: Topology, Homotopy Theory, Modules over Operac K-Theory & TQ-Homology.Johnson, NilesPhD: University of Chicago (2009)NEWARKjohnson.5320@osu.edu740-755-785Research:Topology, Categorical and Computational Aspects Algebraic Topology, Picard/Brauer theory .Rao, VidhyanathPhD: Case Western Reserve (198)NEWARKrao.3@osu.edu740-366-934Research:Topology - Homotopy Theory - K-TheoryYau, DonaldPhD: Massachusetts Institute of Technolog NEWARKYau.22@osu.edu740-366-919Research:Topology, Algebra, Hom-Lie algebras, Deformations	COLUMBUS falkner.1@osu.edu 614-292-802: Research: Probability Theory, Brownian Motion Kahle, Matthew PhD: University of Washington (2007 COLUMBUS kahle.70@osu.edu 614-292-529 Research: Combinatorics, Probability Theory, Geometric Group Theory, Mathematical Physics, Topology Topological Data Analysis 7 Nguyen, Hoi PhD: Rutgers University (2010 COLUMBUS nguyen.1261@osu.edu 614-292-2789 Research: Combinatorics - Probability Theory - Randor Matrices - Number Theory 1 Paquette, Elliot PhD: University of Washington (2013) COLUMBUS paquette.30@osu.edu 614-292-5790 Research: Probability Theory, Random Geometry, Random Matrices, Probabilistic Combinatorics.

Sivakoff, David	PhD: University of Cali	fornia, Davis (2010)	Vivas, Liz Ra	aquel PhD: Univ	versity of Michigan (2009)
Columbus	sivakoff.2@osu.edu	614-292-3886	COLUMBUS	vivas.3@osu.edu	614-292-8888
Research: Stor Pro Mo ana	chastic Processes on Lat bability Theory, Applicat dels, Particle Systems, Epic l Genetics.	ge Finite Graphs, ions to Percolation lemiology, Sociology,	Research:	Holomorphic Dynamical Variables, Complex Geor Geometry, Monge-Ampe manifolds.	Systems, Several Complex netry ఈ Affine Algebraic ere equations and CR
Maharry, John	PhD: The Ohio Sta	te University (1996)	Par	tial Differential	Equations
MARION	maharry.1@osu.edu	740-725-6166	Costin Rod	ica PhD·1	Rutgers University (1997)
Research: Grap	h Theory, Combinatorics		COLUMBUS	costin 10@osu.edu	614-292-4493
Stan Aurol	PhD: Louisiana Sta	te University (1999)	Research:	Partial Differential Eauat	ions, Difference Equations,
MARION	stan 7@osu edu	740-725-6159		Orthogonal Polynomials, 2	Asymptotic Analysis
Research: Stoch	astic Analysis, Harmonic	Analysis, Ouantum			
Proba	ability, Wick Products.		Keyfitz, Barl	oara PhD: Ne	w York University (1970)
			COLUMBUS	keyfitz.2@osu.edu	614-292-5583
	Real Analysis		Research:	Partial Differential Equa Hyperbolic Conservation I	itions, Non-Linear PDE, Laws
Costin, Ovidiu	PhD: Rutge	rs University (1995)	Valena Va		Nagova University (1080)
COLUMBUS	costin.9@osu.edu	614-292-7844		kodama 1@ogu odu	(1980)
Analyzable Functions, Applications to PDE and difference equations, Time dependent Schrödinger equation, Surreal numbers.			Integrable Systems, Nonli Field Theories, Applica Engineering Problems, Palated To Differential Fa	inear PDEs, Lie Algebras, itions to Physical and Topological Questions	
Lang, Jan	PhD: Charles Unive	ersity, Prague (1996)		Retated To Dijjerenital Eq	uutions
MARION	lang.162@osu.edu	614-688-3177	Tanveer, Sal	eh PhD: California Instit	ute of Technology (1984)
Research: Analy	vsis, Differential Equations,	Harmonic Analysis,	COLUMBUS	tanveer.1@osu.edu	614-292-5710
Func Theo	tion Spaces, Integral Inequal ry Complex Analysi	ities, PDE - Function	Research:	Applied Mathematics, As, boundary problems in Flu Growth, PDEs in Fluid M Physics, Singularity & regi	ymptotics, Nonlinear Free uid Mechanics and Crystal lechanics & Mathematical alarity auestions in PDEs
	Complex 1 marys			1.1)0100,0118,11111) 0 108	
Koenig, Kenneth	h PhD: Princeto	on University (2000)	Tian, Fei-Ra	n PhD: Ne	w York University (1991)
COLUMBUS	koenig.271@osu.edu	614-292-5925	COLUMBUS	tian.5@osu.edu	614-292-0852
Research: Sev Pro	eral Complex Variables, jections, &Neumann proble	Szegoð & Bergman em	man Research: Partial Differential Equations, Zero Semi-Classical Limits, Whithan Modulation of Dispersive Osci		tions, Zero Dispersion & Whitham Equations, sive Oscillations, Free
McNeal, Jeffery	PhD: Purd	ue University (1988)		Boundary Problems	
COLUMBUS	mcneal.28@osu.edu	614-292-0661			
Research: Sev	eral Complex Variables, H	Bergman Projections,	Tiglay, Ferid	le PhD: Univers	ity of Notre Dame (2004)
Cat	ichy-Riemann Complexes,	L ² -Cohomology on	NEWARK	tiglay.1@osu.edu	740-755-7832
Cor	npiete Manijolas, &Neuma	nn proviem	Research: H I I	Partial Differential Equatio Dynamical Systems, Wa Dynamics	ns, Mathematical Physics, ve Equations & Fluid

Mathematical Biology &	Lou, Yuan PhD: University of Minnesota (1995)
Numerical Analysis	COLUMB lou.8@osu.edu 614-292-5368
Numericui Anuiysis	Research: Partial Differential Equations, Applications in
Best, JanetPhD: Cornell University (2004)	Population Biology, Nonlinear Elliptic and Parabolic
COLUMBUS best.82@osu.edu 614-292-5894	Systems
Research: Applied Mathematics, Mathematical Biology, Dynamical Systems, Circadian Rhythms, Probability Theory, Stochastic Processes on Random Graphs	Overman, EdwardPhD: University of Arizona (1978)COLUMBUSoverman.2@osu.edu614-292-1046Research:Applied Mathematics, Numerical Analysis, Scientific Computing Dynamical Systems & Chaos
Chou , Ching-Shan PhD: Brown University (2006)	Computing, Dynamical Systems & Chaos
COLUMBUS chou 160@osu edu 614-292-9947	Terman. David PhD: University of Minnesota (1980)
Research: Computational & Mathematical Biology Systems	COLUMBUS terman.1@osu.edu 614-292-5285
Biology of Cell Polarity, Numerical Algorithms for Hyperbolic Problems, Conservation Schemes & Laws	Research: Applied Mathematics, Differential Equations, Mathematical Biology, Dynamical Systems, Computational Neuroscience
Dawes, AdrianaPhD: University of British Columbia	
COLUMBUS dawes.33@osu.edu 614-292-0395	Tien, Joseph PhD: Cornell University (200/)
Research: Mathematical Biology, Mathematical Modeling of	COLUMBUS tien.20@osu.edu 614-292-5251
Cell Polarization & Chemotaxis, Differential Equations	Research: Mathematical Biology, Models of Infectious Disease Dynamics, Differential Equations, Parameter Estimation, Neuroscience
Friedman, AvnerPhD: Hebrew University (1956)	
COLUMBUS friedman.158@osu.edu 614-292-5795	Xiu, DongbinPhD: Brown University (2004)
Research: PDEs, Mathematical Biology, Stochastic differential equations, Control Theory, Free Boundary Problems	COLUMBU xiu.16@osu.edu 614-292-7049 Research: Scientific Computing, Numerical Mathematics, Stochastic Computation, Uncertainty Ouantification,
Golubitsky , Martin PhD: MIT (1970)	Multivariate approximation, Data Assimilation,
COLUMBUS golubitsky.4@osu.edu 614-247-4758	High-order Numerical Methods.
Research: Dynamical Systems, Bifurcation Theory, Networks, Neuroscience, Symmetry in Chaos	Xue, ChuanPhD: University of Minnesota (2008)COLUMBUSxue 41@osu edu614-292-5710
TT The T DLD Classes Described Distance	Research: Mathematical Biology & Medicine Multiscale &
Hamilton, Ian PhD: Simon Fraser University - Biology	hybrid modeling, Computation & Analysis,
COLUMBUS hamilton.598@osu.edu 614-688-3443	Moving boundary problems, Phase behavior &
<i>Research:</i> Behavioral Ecology, Coerced Cooperation, Evolution of Cooperative Behavior, Mathematical Modeling	Stochastic methods in Biology
Lam, Adrian PhD: University of Minnesota (2011)	Other Applied Mathematics
COLUMBUS lam.184@osu.edu 614-688-3443	Mathematical Physics
Research: Partial Differential Equations, Mathematical	Feinberg , Martin PhD: Princeton University (1962)
Biology, Evolutionary Game Theory, Free-boundary	COLUMBIL feinberg 14@osu edu 614-688-4883
Problems.	Research: Applied Mathematics Complex Systems in Chemical
	Engineering, Chemical Reaction Network Theory

Abdalkha	ni, Javad	PhD: Dalho	usie University (1983)
LIMA	abdalkhani.1	@osu.edu	419-995-8308
Research:	Applied Mathem Analysis	atics, Integral	Equations, Numerical

Huang, Yong (Russ)PhD: The Ohio State University (1989)MARIONhuang.11@osu.edu740-725-6267Research:Differential Equations, Optimal Control

Pandey, BishunPhD: Banaras Hindu University (1980)MARIONpandey.1@osu.edu614-292-9133Research: Applied Mathematics

Ergodic Theory

Bergelson, VitalyPhD: Hebrew University of JerusalemCOLUMBUSbergelson.1@osu.edu614-292-1180

Research: Ergodic Theory, Combinatorics, Ergodic Ramsey Theory, Polynomial Szemeredi Theorems, Number Theory

Leibman, Al	exander	Ph	D: Isra	el In	stitute	e of Te	echnology
COLUMBUS	leibma	an.1@08	su.edu			614-	-292-0663
Research:	Ergodic T Polynomia Theorems	Theory, l Szen	Dyna 1erédi	mics ぐ	on van	Nil-1 der	Manifolds, Waerden

Shah, Nir	nish	PhD: Tata Institute (1994)
Columb	shah.595@osu.	edu 614-292-5088
Research:	Ergodic Theory, Ergo Spaces of Lie Groups , A	odic Theory on Homogeneous Applications To Number Theory

Thompson,	Dan	PhD: University of V	Varwick (2009)
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Research: Ergodic Theory, Dynamical Systems, Symbolic Dynamics, Thermodynamic Formalism, Dimension Theory & Geometry

Representation Theory, Operator Theory, Harmonic Analysis

Casian, Luis	PhD: Massachusetts Institute of Technology			
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Research:	Representation Theory, Real Semisimple Lie Grou	Representation Theory of ups, Integrable Systems		

COLUMBUS sachin@math.columbia.edu (start: Sp '17)

Research: Representation Theory of Infinite-Dimensional Quantum Groups, Classical and Quantum Integrable Systems

Mixon, Dustin	PhD: Princeton	University (2012)
Columb	dustin.mixon@gmail.com	(start: Au '17)

Research: Harmonic & Functional Analysis, Random Matrix & Spectral Graph Theory, Information Theory, Computational Complexity, Applications to Signal Processing

Moscovici, Henri PhD: University of Bucharest (197	1)
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Research: Non-commutative Geometry and Applications to Geometry, Topology and Number Theory

Penneys, Dav	vid PhD: Univ. Califor	PhD: Univ. California, Berkeley (2012)			
COLUMBUS	penneys.2@osu.edu	614-292-5259			
Research:	Operator algebra, von-Neuma and Tensor Categories, Mather commutative Geometry	n Subfactors, Fusion natical Physics, Non-			

Stanton, RobertPhD: Cornell University (1974)COLUMBUSstanton.2@osu.edu614-292-0348

Research: Harmonic Analysis on Lie Groups

Taylor, Krys	tal PhD: University	v of Rochester (2012)
COLUMBUS	taylor.2952@osu.edu	614-292-4974
Research:	Harmonic Analysis, Geometri Harmonic Analysis on Fract Analytic Number Theory	ric Measure Theory, tals, Applications to

Logic

Carlson, Tim	nothy Ph	D: Universit	ty of Minneso	ta (1978)
Columbus	carlson.6@	osu.edu	614-	292-4004
Research:	Combinatorics, Logic, Ramsey Infinitary Comb	Foundation Theory, inatorics, Inr	s of Mather Distributed 1er Model The	natics & Systems, vory

Miller, Chris	PhI	D: Univ.	Illinois, U	Urbana-Chai	npaig	gn (1994)
Columbus	mi	ller.1987	@osu.ed	u	614-	292-9363
Research:	Logic,	Model	Theory,	Application	s to	Analytic
Geometry ර Geometric Measure Theory						

Last Update 10/01/16