

INDIANA UNIVERSITY

MATHEMATICS ALUMNI NEWSLETTER

COLLEGE OF ARTS & SCIENCES ALUMNI ASSOCIATION

April 2026, No. 24



CHAIR'S CORNER

Chris Connell

As we begin a new year, I am delighted to share updates and accomplishments from the Department of Mathematics over the past year. Our community continues to thrive thanks to the dedication and hard work of our faculty, students, and staff.

My third year as Chair has brought new challenges, but also real encouragement. Last year, we hired four outstanding new faculty members—three tenure-track and one lecturer. One of those hires came through the Applied Quantum and Information Science Faculty 100 initiative at the provost level. This year we just hired another tenure-track faculty member and two visiting lecturers as well (more on them in the next newsletter).

In our undergraduate and graduate programs, we are also moving forward on several new projects, including a new B.S. major jointly offered with the Data Science program in the Luddy School of Informatics. We are exploring other possibilities as well, including a new major with the Finance Department in the Kelley School of Business and several potential master's programs. We have also been assisting the Department of Statistics in complying with new state laws by folding their theory students into one of our mathematics major programs.

Once again, our year has been filled with wonderful events and lectures presenting cutting-edge advances in mathematics and applications in other fields, together with mind-expanding entertainment and outreach to different segments of the public.

None of this would be possible without the generosity of our donors. To those who make this possible we are especially grateful. Indeed, it should encourage future generations as much as our own that there are those who so greatly appreciate the contributions of mathematics in general and the mission of the Department of Mathematics at Indiana University in particular. Thank you!

IN THIS ISSUE

Chair's Corner.....pg1	Faculty Newspg17
Undergrad Program ...pg2	Problem Corner.....pg23
Department News.....pg7	Awardspg24
Graduate Program... pg14	Giving.....pg35

UNDERGRADUATE PROGRAM



*Director of Undergraduate
Studies*

Nam Le

This is my first year as Director of Undergraduate Studies in Mathematics. While this job presents occasional challenges, it offers a rewarding opportunity to connect with our remarkable undergraduates. I am grateful to my colleagues—particularly my predecessor, Shouhong Wang—and our departmental staff for their advice and support during this transition. I also want to extend my sincere thanks to our students, parents, donors, faculty, academic advisors, graduate assistant instructors, and undergraduate instructors/graders. Your collective hard work and dedication have been instrumental in making this a successful academic year.

Here are a few of the most notable achievements by our undergraduates.

Four math majors: **Youha Kim**, **Kate Lynn Pletz**, **Allison Myers**, and **Hunter Lee Stewart** were elected to Phi Beta Kappa.



Allison Myers



Youha Kim

Freshman **Greta Hodes** (majoring in mathematics and harp performance) won first prize in the Intermediate II Division of the American Harp Society National Competition in Los Angeles, California in May 2025.



Greta Hodes

Sophomore **Evelyn Rohrbach** (majoring in mathematics and pipe organ performance) performs in the US and Europe. She will serve as the vice president of the Women in Mathematics Club and hopes to do research on Mackey Functors.



Evelyn Rohrbach

Beyond the classroom, our undergraduates have been making wonderful use of research opportunities, such as working alongside professors, graduate students, and getting involved in research-related programs. More impressively, they have started presenting research at professional venues.

Sophomore **Adam Cushman** participated in the Research Experiences for Undergraduates program after his freshman year under the mentorship of Professor **Shukun Wu**. This summer, he plans to explore topics he finds interesting and read ahead for next year's coursework.



Adam Cushman

Sophomore **Declan Dougan** performed 5 times this year with the Jacobs School Latin Jazz Orchestra. He also worked in a stellar astrophysics research group. This summer he did paid research work in stellar astrophysics.



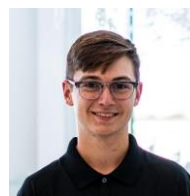
Declan Dougan

Junior **Isabel Goodwin** has been doing research with Professor **Julia Plavnik** and graduate student **Abigail Watkins** on matrix representations of the braid group on four strands. She presented this research at the AWM symposium at the University of Wisconsin-Madison in May.



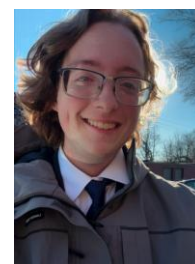
Isabel Goodwin

Junior **Calvin Josenhans** is managing editor of digital at the Indiana Daily Student, a Luddy student ambassador, and an undergraduate instructor. He presented research at the 6th International Conference on Big Data and Blockchain. This summer he was a software development intern at Epic Systems in Madison, WI.



Calvin Josenhans

Graduating senior **Will Amos** worked on Direct Reading Program projects related to topological quantum field theory, and he wrote a thesis computing quantum invariants with Professor **Julia Plavnik** and graduate student **Abigail Watkins**. He started a job as a modeling and simulation analyst.



Will Amos

Graduating senior **Sophia Hamza** presented research in Computational Chemistry both nationally and internationally.



Sophia Hamza

Our department hosts a summer Research Experiences for Undergraduates (REU) program in which advanced undergraduates from around the country come to Bloomington for an intense eight-week session of guided individual research projects, augmented by other group activities.

We have hosted a REU program for over four decades. Our program is highly competitive, getting many, many applications from across the country. IU students are eligible for this program, and you see two recent IU student participants below.

In the program, students are selected to participate in research projects guided by individual faculty mentors, investigating a wide variety of math topics. Usually, REU students are standout math majors at their universities, and frequently they are contemplating careers in math or science. Typically, this is the first research experience that REU students have. Some of the work done in REU projects ends up as publications. All the projects are presented at an all-REU conference held at the end of the program, together with REU students at other universities in the Midwest.

The National Science Foundation supports our REU program. The Director of our program is Professor Ciprian Demeter, and the research leaders are professors, post-docs, and lecturers, mainly from our department.

Senior **Evan Halloran** is involved in a biology department lab studying fruit flies. He worked with Professor **Shouhong Wang** in the REU program last summer, resulting in a joint research mathematics paper: Jared Grossman, Evan Halloran, Shouhong Wang, *Cahn-Hilliard Equations on Lattices: Dynamic Transitions and Pattern Formations*; see <https://arxiv.org/abs/2511.17642>. He plans to do research in applied analysis REU at West Virginia University this summer.



Evan Halloran

Junior Isabel Goodwin was selected for the IU Math REU program in 2025. Her project involved formalized proof theory, a rapidly growing area that allows mathematicians to take a proof and enter it into a "proof assistant". A proof assistant is a computer program which checks the steps of the proof. It is widely believed that proof assistants are becoming an important tool to the math community, and Isabel's experience with them gives her an important skill.

Her project was to take a classical mathematical result — the fact that the real number π is a transcendental number, not the root of any polynomial — and to formalize it using the Lean proof assistant. This kind of work involves both a deep knowledge of the mathematics involved and familiarity with the workings of the proof assistant. Her mentor was Elif Uskuplu, a Zorn post-doc in the department who has extensive experience with proof assistants.



Isabel Goodwin

Locally, two research-related programs (LEMMA and DRP) have attracted an increasing number of students.

Lab of Geometry (LOG) is a departmental program first introduced in the Spring semester 2019 under the supervision of Professor **Dylan Thurston**. The aim of this program is to understand a concept deeply enough so that the student can tell a computer to produce meaningful pictures from which they can get further insights and conjectures. Since Spring 2025, LOG has been changed into **LEMMA (Laboratory of Experimental Math and Math Applications)** to better reflect the fact that the topics in LOG have expanded across the panorama of mathematics, and because the applied and experimental aspects of the projects are better represented with this name. The 2024-2025 LOG/LEMMA program was coordinated by Professors **Paul Kirk** and **Ji-Ping Sha** and graduate student **Kevin Buck**. Math majors **Elijah Arulandu**, **Aaron Diaz**, **Benjamin Howard** and **Jackson Hudgins** worked on LOG projects in Fall 2024. Math majors **Elijah Arulandu**, **Salim Belhaj**, **Rocco Fugate**, **Ralph Fernando** and **Justin Offut** worked on LEMMA projects in Spring 2025.



Rocco Fugate

The **Directed Reading Program (DRP)** pairs undergraduates with graduate students to learn an advanced topic of the undergraduate's choosing. This year the program is mentored by Dr. **Vladimir Eiderman** and Dr. **Aranya Lahiri** and coordinated by graduate student **Zachary Babyak**. Math majors **Adam Cushman**, **Isabel Goodwin**, and **Zachary Kabacinski** participated in academic year 2024-2025 DRP.



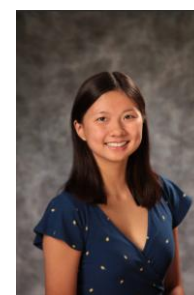
Isabel Goodwin



Zachary Kabacinski



Adam Cushman



Jia Jia Hodgson

Several graduating seniors are going to pursue graduate studies, including **Sophia Hamza** to Vanderbilt University studying chemistry, **Jia Jia Hodgson** to UIUC's Ph.D. program in physics, **Nela Riddle** to IU medical school and **Emily Ward** to the chemistry Ph.D. program at Princeton University. We wish our graduates all the best in their future endeavors.



Sophia Hamza



Emily Ward

-Nam Q. Le

Contest News

A team of three math majors, **Will Amos**, **Jacob Renner**, and **Daniel Skora**, participated in COMAP's Mathematical Contest in Modeling (MCM) and Interdisciplinary Contest in Modeling (ICM). These are international contests for high school and college students. Their team built models to predict the location of a lost submersible over time and earned the title of successful participant.

Club News

We are grateful to the leadership teams of the **Women in Math Club**, the **Math Club**, and the **Actuarial Club** at IU. They have organized many fun, educational, and engaging activities throughout the year. The leadership team for Women in Math club consists of **Breanne Gatlin** (President), **Anasuya Sarkar** (Vice President), **Reagan Walhof** (Secretary), **Marikate Morrison** (Treasurer), and **Katie Pletz** (Social Media Coordinator). The club is mentored by IU Mathematics faculty member Professor **Julia Plavnik**. See https://www.instagram.com/wim_iu/ for more info. The leadership for the **Actuarial Club** includes **Logan Hart**. The club is mentored by IU Mathematics Professor **Russell Lyons**. The **Math Club** was organized by **Vitor Braga** and is mentored by Professor **Shukun Wu**.

Undergrad Career Outcomes Rise

A new software system aids the College's ability to track what our majors do after graduation. After a few years of calibration and everyone getting used to new things, the outcomes are impressive. Nearly 92% of our mathematics graduates report satisfactory outcomes, including employment, further education, military service, fellowship, etc. Almost half are continuing their education, while over one-third report being in full-time work. Business services and technology comprise most industries; but a surprisingly diverse collection of others such as construction, nonprofit, arts/entertainment/media, retail, government, healthcare, transportation, advertising, energy, etc. reinforce our belief that with a math degree, one can do anything! Historical mean and median reported annual salaries are now around \$67.5K, with numbers rising substantially when sliced by more recent hires. Among graduate-school bound graduates, around two-thirds pursue Masters degrees, and nearly one-third pursue doctoral studies.

DGEMM Corner

There have been a lot of exciting developments in our introductory math courses, all aimed at helping undergraduate students succeed and progress towards their degrees. We developed and launched a new course: B110 Math for Business and Public Affairs. This course covers differential calculus and discrete probability. It serves students at the Kelley School of Business and the O'Neill School of Public and Environmental Affairs and is on track to be our highest enrollment course. Thank you to **Noah Snyder** and **Andy Jenkins**, who both played significant roles in making this course a reality.

We have reduced student costs by adopting free Open Educational Resources (OER) as the textbooks for M124 Basic Algebra (Annie Edwards) and B110 Math for Business and Public Affairs (Andy Jenkins). Both Annie and Andy secured funding for their adoption efforts from [IU OER Summer Sprint](#) program.

We have updated the finite math pathway. Students who need additional preparation now start in M124 Basic Algebra. Through an [Edfinity Educator Grant](#) and [CITL Active Learning Grant](#), Annie Edwards has added both online homework with instant feedback and in-class activities to this course. She has also done substantial work to support the graduate-student instructors who teach this course.

We shortened the calculus pathway by creating an X125 Supplemental Instruction for M125 Precalculus. This co-requisite course makes it possible for students with less preparation to enroll directly in M125 rather than taking a prerequisite course. Student feedback on this course was overwhelmingly positive and importantly the vast majority of the X125 students succeeded in M125. Thank you to Annie Edwards for developing X125 and teaching it in the first year. In addition to these big updates, the instructional faculty are also busy supporting the students in their classes, creating course resources for both students and instructors and exploring ways to leverage technology both in and out of the classroom.

DEPARTMENT NEWS

Math and Music Event Featuring Ami Radunskaya

The Department of Mathematics and the Jacobs School of Music co-hosted the Third Annual Celebration of Mathematics and Music on February 25, 2025, featuring Ami Elizabeth Radunskaya of Pomona College. In her captivating presentation, “Mathematics as the Musician–Machine Connection,” Radunskaya explored the deep interplay between mathematical structures and musical expression, illustrating how concepts from dynamical systems can model the



Ami Elizabeth Radunskaya

evolving patterns of sound that define performance and composition.

Through live demonstrations, she showed how musicians and mathematical models can interact in real time—creating a vivid dialogue between human creativity and machine dynamics. The evening concluded with a performance by the Pneum Quartet of “Nefarious Networks,” a work guided by a living score generated from a dynamic social network model.

This inspiring event highlighted the beauty of mathematics as a creative language—one that bridges analysis, art, and sound in truly unexpected ways. Support for this and future events is now endowed from the Celebration of Math and Music Fund, created in 2023 by a gift from alumni Leslie ('86) and Leon Shivamber.

Mathematics and Music Event Featuring Eugenia Cheng

2024's Math and Music Event was held in Ford Hall at the Jacobs School of Music on February 21 and featured Eugenia Cheng, the Scientist in Residence at the School of the Art Institute of Chicago together with a guest



Eugenia Cheng

appearance by the Mezzo-Soprano Michelle DeYoung. Eugenia earned tenure in pure mathematics at the University of Sheffield (UK) and is now Honorary Visiting Fellow at City, University of London. She holds a PhD in pure mathematics from the University of Cambridge and taught previously at the Universities of Cambridge, Chicago, and Nice. Michelle has appeared with the New York Philharmonic, Boston Symphony Orchestra, Chicago Symphony Orchestra, Cleveland Orchestra, San Francisco Symphony, Pittsburgh Symphony Orchestra, London Symphony Orchestra, BBC Symphony Orchestra, Vienna Philharmonic and the Royal Concertgebouw Orchestra.



Eugenia tantalized the crowd with a story of mathematical structure in music interspersed with numerous examples of familiar pieces, penned by a range of composers including Bach, Brahms, Schumann, Fauré, Ravel, Debussy and Mahler, which were performed on piano and sometimes sung by Michelle and Eugenia. We are especially thankful to Frank Graves for a generous donation that made this event possible and to the Department of Music Theory at The Jacobs School of Music for co-sponsoring this event.

Michelle DeYoung

Math Department jointly sponsors play: *Uniform Convergence*

The Mathematics Department joined several other campus units to sponsor a performance of a one-woman play, *Uniform Convergence*.

The event was free and open to the public. It was jointly sponsored by the Asian Culture Center, the Center of Excellence for Women and Technology, the College Office of Diversity and Inclusion, the Department of East Asian Languages and Cultures, the East Asian Studies Center, the Mathematics Department, and the Office of the Vice Provost for Faculty and Academic Affairs through a "Horizons of Knowledge" award.



Corrine Yap

Yap <https://corrineyap.com/>,
Visiting Assistant Professor of

Mathematics, Georgia Tech. A panel presentation followed the play.

The play was written and performed by Dr. Corrine

Panelists included:

- Dr. Akesha Horton, Director of Curriculum and Instruction, Luddy School of Informatics, Computing, and Engineering.

https://luddy.indiana.edu/contact/profile/?Akesha_Horton

- Dr. Dami Lee IUB PhD 2018, Visiting Lecturer, Department of Mathematics, the College.

<https://damileemath.wordpress.com/>

- Professor Tuli Mukhopadhyay, Department of Biology, the College.

<https://biology.indiana.edu/about/faculty/mukhopadhyay-tuli.html>

The play juxtaposes the stories of two women trying to find their place in a white male-dominated academic world. The first is the story of the Russian mathematician Sofia Kovalevskaya, who was lauded as a pioneer for women in science but only after years of struggle for recognition. Her life's journey is told through music and movement, in both Russian and English. The second is of a fictional Asian American woman, known only as "Professor", trying to cope with the prejudice she faces in the present. As she teaches an introductory real analysis class, she uses mathematical concepts to draw parallels to the race and gender conflicts she encounters in society today.

Julia Robinson Math Festival, hosted by the Women in Math Club

In March of 2024, the Women in Math Club hosted the Julia Robinson Math Festival. The Julia Robinson Math Festival was held in the Frances Morgan Swain Student Building.

The festival was a drop-in event that featured math and logic-based puzzles and games that are ideal for school-aged children ages 4-9. It was a fun (and free) activity for kids and families to learn and experience math through games and puzzles.



Math Meets Art, The Legacy of Morton C. Bradley Jr. at Indiana University

The Eskenazi School of Art, Architecture and Design together with the Department of Mathematics sponsored this celebration of the sculpture and art of Morton C. Bradley, Jr. The event began with a talk by



Dylan Thurston

of color theory in art. This event was followed by an exhibit entitled “Science Meets Art” in the Wylie House Museum featuring many of Bradley’s truly stunning creations.



Martha MacLeish

Dylan Thurston explaining some of the mathematics behind Bradley’s sculptures. Following that, Martha MacLeish, an associate professor in the Eskenazi School of Art, continued with a talk on the emphasis

Eclipse and Science Fest

Spring 2024 brought the Department of Mathematics together with the Women in Math club hosting two stations at the Annual Science Fest. Held on April 6

instead of the usual fall date, the event was timed to coincide with the many other events occurring in conjunction with the total solar eclipse (the path of totality passed directly over Bloomington). The eclipse was indeed a



grand event -- one of those rare ones where photos could not do justice to the actual experience.

The Math part of the Science Fest was led by Mihai Ciucu and took place in Swain West with a variety of puzzles including tiling puzzles, logic games, impossible drawings,

and more. Many of the physical puzzles featured simple household objects including wire links, string and plate, paper strips, paper clips and rubber bands.



Mihai Ciucu

In the fall Louis Fan led our next Science Fest station entitled “Puzzle Patch” which included three different puzzles (knots and strings, pouring steps puzzle, and the topology of linking paper clips and rubber bands using paper strips). The experience was quite fun for those involved.

Distinguished Lecture Series

First Distinguished Lecture Series of 2024: Nir Avni

2024's first Distinguished Lecture Series was given by Professor of Mathematics Nir Avni from Northwestern University on three related topics surrounding arithmetic groups: "Random homomorphisms to unitary groups", "Counting points and representations," and "Conjugacy width in higher rank arithmetic groups." One of the most fascinating themes in this series of talks was the use of limit distribution theorems to establish quantitative counting bounds on gadgets such as the number of (higher) commutators in matrix groups and certain subgroups.



Nir Avni

Second Distinguished Lecture Series of 2024: Jonathan Mattingly

2024's second Distinguished Lecture Series was given by Kimberly J. Jenkins Distinguished University Professor of New Technologies and Mathematics, Jonathan Mattingly from Duke University. He spoke on two related topics surrounding ergodicity in fluid flow: "Ergodic Results for Stochastically Forced Fluid Equations" and "Ergodicity, Positive Lyapunov Exponents, and Partial Damping for Random Switching," together with a special lecture entitled "Computational and Theoretical Challenges in Hearing the Will of the People in the Vote." The former lectures covered his recent work on the dynamics of fluid flows. The latter was a public lecture covering recent high-profile work on Gerrymandering that has even been used by both parties in North Carolina. The main idea is to provably build unbiased voting regions based on principles agreed upon by both parties ahead of time.



Jonathan Mattingly

First Distinguished Lecture Series of 2025: Sarah Koch

Professor Sarah Koch (University of Michigan) delivered this year's Distinguished Lecture Series with a trio of lectures spanning key themes in modern complex dynamics. She began by revisiting the classical quadratic family and the renewed mathematical interest in real quadratic dynamics. Her second lecture used postcritically finite polynomials as a guide to illuminate the intricate structure of the Mandelbrot set. Koch concluded the series by extending these ideas to broader moduli spaces of polynomials and rational maps, showing how the geometric and dynamical features familiar from the quadratic case generalize to richer settings.



Sarah Koch

Seymour Sherman Memorial Lecture

First Seymour Sherman Memorial Lecture of 2024: Hong Wang

2024's first Seymour Sherman Lecture (in honor of our former distinguished colleague) was given by Professor of Mathematics Hong Wang from New York University on the topic of "Incidence estimates for tubes." Many counting and analysis problems rely on Kakeya type estimates which describe sets formed by arrangements of line segments in Euclidean spaces, and even just the plane. Prof. Wang explained how to use tubes, i.e. thickenings of these collections of segments, to improve some of these counting estimates.



Hong Wang

Second Seymour Sherman Memorial Lecture of 2024: Miguel Rodrigues

2024's second Seymour Sherman Lecture was given by Professor of Mathematics Miguel Rodrigues from Université de Rennes and entitled "About a few frontiers in nonlinear wave stability." In this talk he described some of the frontiers of our understanding of nonlinear stability of traveling waves of partial differential equations. He explained how spectral stability can imply nonlinear stability in this setting, and briefly surveyed stability theories for genuinely multidimensional periodic traveling waves of parabolic systems, planar periodic traveling waves of dispersive systems, and discontinuous traveling waves of hyperbolic systems.



Miguel Rodrigues

Seymour Sherman Memorial Lectures of 2025:

Dmitry Khavinson, Sergey Fomin, Adam Levine and Marcus Michelen

Dmitry Khavinson (University of South Florida) opened this year's Sherman Lecture series with a survey of recent extensions of the Fundamental Theorem of Algebra. He highlighted how these developments connect unexpectedly with complex dynamics and even astrophysics, particularly through applications to gravitational lensing predicted by general relativity. His lecture showcased the surprising reach of classical complex analysis into modern scientific questions.



Dmitry Khavinson

Sergey Fomin (University of Michigan) presented a unified geometric framework for classical incidence theorems such as those of Pappus, Desargues, and Möbius. By interpreting these results through triangulations and tilings of closed oriented surfaces, he showed how a single mechanism can generate both familiar and new incidence phenomena. His lecture highlighted the power of surface combinatorics in revealing structural relationships within geometry.



Sergey Fomin

Adam Levine (Duke University) spoke on recent advances in the construction and classification of exotic smooth structures on 4-manifolds. He described new examples—among them the first known exotic 4-manifolds with definite intersection form—and explained techniques for distinguishing homeomorphic but nondiffeomorphic manifolds. His lecture, based on joint work with Tye Lidman and Lisa Piccirillo, illuminated long-standing challenges in four-dimensional topology.



Adam Levine

Marcus Michelen (University of Illinois Chicago) concluded the Sherman Lecture series with a breakthrough result in high-dimensional sphere packing. He presented the first asymptotically improving lower bound since 1947, achieved through a dense random discretization method and a new approach to constructing independent sets in graphs with controlled co-degree. His work, carried out with collaborators Marcelo Campos, Matthew Jenssen, and Julian Sahasrabudhe, draws striking connections between combinatorics, probability, and statistical physics.



Marcus Michelen

**Phi Beta Kappa Visiting
Scholar Lecture presented
by Talitha Washington**

The Indiana University-sponsored Phi Beta Kappa Scholar Lecture was delivered this year by mathematician Talitha Washington who is the Sean McCleese Professor of Mathematics at Howard University. She presented her public lecture on "The Mathematics of the 'Hidden Figures'," in which she uncovered the essential ideas created by Katharine Johnson that sent John Glenn into orbit and brought him back safely in a racially segregated era.



Talitha Washington

**Career Seminar delivered by Joel Lash
(Sandia National Laboratories)**

We were honored with a visit by Joel Lash, the Engineering Sciences Director at Sandia National Laboratories who spoke to our graduate students and graduating majors on the topic of "Mathematical Careers and Experiences at the National Labs". We greatly benefited from his expert insights into seeking employment at the national labs and other STEM positions in government and industry. (Historically, several of our undergraduate and graduate students have gone on to be employed by the national labs and similar positions.)



Joel Lash

GRADUATE PROGRAM



Noah Snyder
Director of Graduate Studies

Graduate Fellowship winners:

Two of our graduate students won highly competitive dissertation fellowships. **Caroline Davis's** dissertation on Per-n(0) Curves as Mandelfolds, advised by Prof. Thurston will be funded by a President's Diversity Dissertation Fellowship. **Myungsin Cho's** dissertation on K-theoretic Tate Poitou duality at prime 2, advised by Prof. Mandell, will be funded by a College of Arts and Sciences Dissertation Research Fellowship.

Graduate Student Topology Conference:

The 2025 Graduate Student Topology Geometry Conference (CSTGC) was hosted at Indiana University on April 11-13. This conference is held nationally at top research departments in topology and geometry. Recent hosts have included Michigan State, Harvard, and Georgia Tech.

Plenary speakers will be **Sarah Koch** from the University of Michigan, former Zorn postdoctoral fellow **Mark Powell** from the University of Glasgow and **Inna Zakharevich** from Cornell. Our graduate students who did the hard work of organizing this wonderful conference include:

Patrick Chan, Dalton Sconce, Arijit Paul, Abhishek Gopal and Ramyak Bilas.



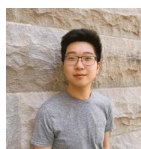
Caroline Davis



Myungsin Cho



Sarah Koch



Patrick Chan



Mark Powell



Dalton Sconce



Abhishek Gopal



Ramyak Bilas



Inna Zakharevich



Arijit Paul

We congratulate our students who graduated in 2024 and 2025:

Our Graduates of 2024

2024 PH.D.

Shival Dasu January 31, 2024
Ramazan Yol January 31, 2024
Alfred Yerger III February 29, 2024
Nathaniel Lowry May 3, 2024
Zhifeng Wei June 30, 2024
Zuyi Zhang July 26, 2024
Pavel Kovalev August 31, 2024
Yue Shi September 30, 2024



Shival Dasu



Ramazan Yol



Alfred Yerger III



Nathaniel Lowry



Zhifeng Wei



Zuyi Zhang



Pavel Kovalev



Yue Shi

Our Graduates of 2025

2025 PH.D.

Caroline Davis May 29, 2025
Ricky Martua Simon Simanjuntak August 1, 2025
Myungsin Cho July 31, 2025
Ahram Lim July 31, 2025
Akash Jena March 31, 2025
Young Ho Kim June 30, 2025
Maximillian Newman July 31, 2025
Nadev Kohen December 19, 2025
Yi-Lin Lee May 9, 2025
(Yifan) Johnny Yang August 1, 2025



Caroline Davis



*Ricky Martua
Simon Simanjuntak*



Myungsin Cho



Ahram Lim



Akash Jena



Young Ho Kim



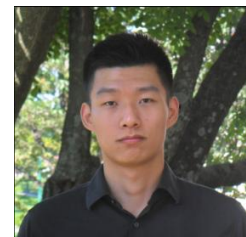
Maximillian Newman



Nadev Kohen



Yi-Lin Lee



(Yifan) Johnny Yang

Career Spotlight

Four Graduate Students receive Honors at Erdős Institute Boot Camps

The Erdős Institute is a multi-university collaboration focused on helping Ph.D.s at every stage of their careers. Founded in 2017, the Institute helps train and place a diverse pool of graduate students, postdocs, and graduate alumni. To further support our graduate students' learning about opportunities in business, industry, and government, our department partnered with Physics and the Walter Center for Career Success this year to obtain a membership in the institute.

The department's participation in this program has been steadily increasing. We had 30 participants this past year. Of those, three Data Science Boot Camp team projects involving Indiana University Mathematics grad students won accolades: **Christina Duffield's** project, "Thrive or Survive," was a Top 5 finalist in the Fall 2024 cohort, **Jared Able's** project, "Counting Crossings," was awarded "With Distinction" in the Spring 2024 cohort, **Vinicius Ambrosi's** project, "Company Discourse," was awarded "With Distinction" in the Summer 2024 cohort. In addition, **Tantrik Mukerji's** Deep Learning Boot Camp project, "arXiv Chatbox," was a Top 5 project finalist in the Summer 2024 cohort.



Christina Duffield



Jared Able



Tantrik Mukerji

Three Grad Students to be supported by INMAS internships in Summer '25

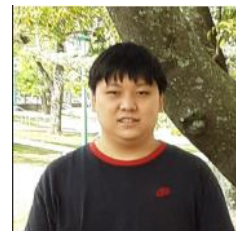
The Internship Network in Mathematical Sciences is a multi-institution partnership supported by an NSF infrastructure grant. IU Bloomington is proud to be a member of this innovative initiative. Its mission is to provide high quality training and internship experiences that broaden career opportunities for students in the mathematical sciences, and to bring powerful computational and modeling tools to bear on industry's most pressing problems. This is the fourth consecutive summer that our department has participated.

Young Ho Kim, Joshua Kim, and Chi Zhang were selected for last summer's internship program.

Independently, two other math grad students have secured internships this summer. Yue Shi is working at Virtu Financial and Zhifeng Wei is supported by an NSF Mathematical Sciences Graduate Internship at Oak Ridge National Laboratory.



Chi Zhang



Young Ho Kim

Faculty News

Nam Le awarded Frontiers of Science Prize

This award is given for top research contributions in different categories of science and mathematics. Professor Le was awarded the Frontiers of Science Prize, together with co-author Dr. Ovidiu Savin of Columbia University, based on the publication, “Schauder estimates for degenerate Monge–Ampère equations and smoothness of the eigenfunctions,” that appeared in very prestigious journal *Inventiones Mathematicae* in 2017.



Nam Le

Marlies Gerber to speak at ICM 2026

Marlies Gerber has been invited to speak at the 2026 International Congress of Mathematicians in Philadelphia for her work with Philip Kunde of Oregon State University. Their joint talk will highlight groundbreaking research on how certain complex mathematical systems can, or in some cases cannot, be sorted into categories, a question first posed by the renowned mathematician John von Neumann in 1932.



Marlies Gerber

Welcome new lecturers Dr. Chaojie Yuan and Dr. Aranya Lahiri

After a nationwide search, we hired two new lecturer faculty. **Chaojie Yuan** stepped into the lecturer faculty role from a visiting assistant professor role in which he excelled. He will join us starting fall 2025 after one year on leave. **Aranya Lahiri** has joined us this year but had been in our department previously as a graduate student completing his PhD under the direction of Matthias Strauch. Their new appointments help solidify our leadership in the coming 2025–26 academic year. Chaojie will also be taking on an additional role as the Assistant Director of General Education and Math Modeling helping Corrin Clarkson in her role as DGEMM. Aranya has jumped into a critical role in our M106 (Mathematics of Decision and Beauty) courses as well as our D-sequence finite courses.



Chaojie Yuan



Aranya Lahiri

New Tenure-Track Faculty

Jia Shi

Jia joins IU from her position as a C.L.E. Moore Instructor at the Massachusetts Institute of Technology. She earned her Ph.D. from Princeton University in 2022, advised by Charles Fefferman and Javier Gómez-Serrano. Jia's research lies in analysis and partial differential equations, with a focus on fluid mechanics, dispersive equations, and large-scale inverse and optimization problems—often motivated by applications in geophysics.



Jia Shi

Jonathan Hanselman

Jonathan comes to IU after recent positions at Princeton University and the University of Texas at Austin. He completed his Ph.D. at Columbia University in 2014 under the supervision of Robert Lipshitz. Jonathan's research is in low-dimensional topology, particularly Heegaard Floer homology, knot theory, and the topology of 3-manifolds. His work connects deep ideas from geometry, algebra, and topology.



Jonathan Hanselman

Elijah Bodish

Elijah joins us following an NSF Postdoctoral Fellowship at the Massachusetts Institute of Technology, where his mentor was Pavel Etingof. He earned his Ph.D. from the University of Oregon in 2022, advised by Ben Elias. Elijah's research focuses on representation theory and categorification, including work on Soergel bimodules, webs, link homology, and quantum groups.



Elijah Bodish

Zorn Postdoctoral Fellowship Program

2024

Our Zorn Postdoctoral Fellowship Program has been thriving in recent years. Joining us in 2024 are **David Boozer, Paul Duncan, Donggeun Ryou, Elif Uskuplu.**



David Boozer

David Boozer has recently been a postdoctoral research associate and instructor at Princeton University. He completed his PhD at UCLA in 2020 under the supervision of [Ciprian Manolescu](#). David's research applies ideas and mathematical structures that arise in quantum field theory to problems in low-dimensional topology involving invariants of knots, links, and graphs in 3-manifolds.



Paul Duncan

Paul Duncan was previously a postdoctoral fellow at the Hebrew University in Jerusalem hosted by [Yuval Peled](#) and [Gil Kalai](#). Paul recently completed his PhD at Ohio State in 2022 under the supervision of [Matthew Kahle](#). Paul's research interests involve combining probability, combinatorics and topology.



Donggeun Ryou

Donggeun Ryou obtained his Ph.D. at the University of Rochester under the supervision of [Alex Iosevich](#). Donggeun is interested in Harmonic analysis and geometric measure theory. More specifically, he is interested in topics related to restriction estimates, Lambda(p)-sets and fractal measures.



Elif Uskuplu

Elif Uskuplu earned her PhD from the University of Southern California (advised by Aaron Lauda and Michael Shulman at the University of San Diego). Her research encompasses topics in logic and category theory related to Homotopy Type Theory (HoTT) and intensional Martin-Löf dependent type theory (MLTT). Her research mentor is Larry Moss.

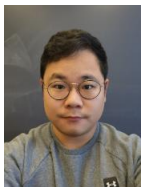
Our longstanding Zorn Postdoctoral Fellowship program has been augmented this year with our new Postdoctoral Research Fellowship program. Joining us new this year are Zorn postdocs **Ben Spitz, Myongjae Lee and Johannes Baerlin.**

2025



Ben Spitz

Ben Spitz recently completed his Ph.D. at the University of California, Los Angeles, under the supervision of Mike Hill. His research interests are in algebraic topology and homotopy theory, with a particular focus on generalized Mackey and Tambara functors and categorical structures arising in equivariant settings.



Myongjae Lee

Myongjae Lee joins us after earning his Ph.D. from Stony Brook University, where he worked with Samuel Grushevsky. His research lies in algebraic geometry, focusing on moduli spaces, Teichmüller dynamics, and the geometry and topology of strata of flat and meromorphic differentials.



Johannes Baerlin

Johannes Baerlin comes to IU from the University of Konstanz, where he completed his Ph.D. in 2023. His research focuses on partial differential equations, especially the analysis of singularity formation in nonlinear hyperbolic systems.

Retired Faculty

The Department of Mathematics bids a warm farewell to five distinguished colleagues whose careers have profoundly shaped our community: **Kent Orr**, **Chris Parks**, **Sergey Pinchuk**, **Roger Temam**, and **Vladimir Eiderman**. For more complete biographies, please find them in the **IU Retirement Biography Book** published by the University.

Kent Orr, a world-renowned expert in topology and manifold theory, has been a valued member of the department since the 1980s. Kent has received many awards, grants, and visiting positions including the prestigious AMS Centennial Fellowship. He has also been published in numerous top journals including *Inventiones* and the *Annals of Mathematics*. Known for his insightful work in algebraic and geometric topology, as well as his thoughtful leadership and service, Kent has guided generations of students and colleagues alike with wisdom and generosity.



Kent Orr

Chris Parks, a dedicated educator and long-time lecturer, has inspired thousands of undergraduates through his clear, patient, and engaging teaching. His steady presence in the classroom and his commitment to student success exemplify the department's teaching mission at its best. His overlapping role as scheduling officer also established important frameworks for how parts of this critical work are carried out to this day.



Chris Parks

Sergey Pinchuk, a leading figure in several complex variables and complex geometry, has been a cornerstone of our analysis group since joining IU in the 1990s. His work has been published in numerous top journals, and he has been an invited speaker at the International Congress of Mathematicians, one of the top honors within Mathematics. His deep contributions to the study of holomorphic mappings and real-analytic hypersurfaces, along with his generosity as a mentor and collaborator, have left a lasting mark on generations of mathematicians.



Sergey Pinchuk

Roger Temam, renowned internationally for his pioneering work in nonlinear partial differential equations and mathematical fluid dynamics, has been a pillar of applied mathematics and scientific computing and has been recognized with numerous awards at the highest levels in the US, France, and the world. The French Academy bestowed on him the Prix Carrière in 1977, the Grand Prix Alexandre Joannidés in 1993 and the Jacques-Louis Lions Prize in 2003. He was elected as a member of the French Academy in 2007. As the founding director of the Institute for Scientific Computing and Applied Mathematics (ISCAM), Roger fostered decades of interdisciplinary research and mentored countless students and postdocs. Indeed, Roger carries the world record for the most completed doctoral students of any dedicated mathematician.



Roger Temam

Vladimir Yakovlevich Eiderman's career reflects a rare combination of scholarly distinction and extraordinary dedication to teaching. He earned both a PhD and a Doctor of Sciences degree and published more than 30 research papers in analytic function theory. His scholarship gained international recognition, including a landmark 2006 paper in *Annals of Mathematics*. Equally significant is Professor Eiderman's lasting impact on students and mathematics education. Renowned for his clarity, enthusiasm, and generosity with his time, he mentored generations of students, trained ACP/AP high school teachers throughout Indiana—an enduring testament to the transformative power of educational excellence.



Vladimir Eiderman

We extend our deepest gratitude to **Kent, Chris, Sergey, Roger** and **Vladimir** for their decades of scholarship, teaching, and service. Their legacies will continue to shape the department for years to come.

Farewell to Laura Merrell and Ary Bird



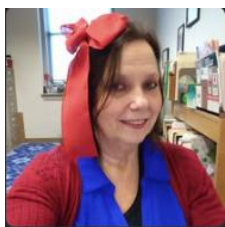
Ary Bird

Laura stepped into the role of Math Advisor the previous year, taking over for long-time math advisor Liz Smith. Having learned the ropes and doing a fine job, she followed her partner back to her native Oregon. Filling the vacated position fell to Ary Bird who came to us from the Eskenazi School where she did her graduate work in weaving (some of which could be found on her wall). She also trained under our former long-time advisor Liz Smith. Though Ary enjoyed working in the department, she decided to move on from the position for personal reasons. We are thankful for both Laura's and Ary's service over the past couple of years.

Farewell to Teresa Bunge

In December, Teresa finished her long-time position as assistant to the director of the Institute for Scientific Computing and Applied Mathematics (ISCAM). This stepping down was in tandem with the retirement of its long-time director Roger Temam who retired after the same month. This end-of-an-era change comes with great

sadness as we say goodbye to a dear colleague and friend. ISCAM itself is being renovated into a new College Center, and so who knows what the future holds?



Teresa Bunge

New Advisor – Cynthia Allen

Welcome to Cynthia Allen. In her new role, she will advise mathematics students at all stages, assisting them to plan their courses of study, and help them connect their mathematical interests with broader academic and professional goals. Her approachable style, enthusiasm for student success, and collaborative spirit make her a wonderful addition to the department—please join us in welcoming Cynthia to the IU Math community!



Cynthia Allen

Jeff Taylor retiring

In July, Jeff Taylor retired after serving Indiana University for almost 35 years. Jeff began working for the Department of Mathematics in October of 1990 as a Computer Support and Information Technology Specialist. Over the years, Jeff became not only an integral part of the department, but a great friend to many people and someone who could be counted on to do or fix anything, from computers to building a plexiglass shield for the main office.

During Jeff's tenure in the department, the world of technology and computing changed drastically from the Apple Macintosh (which he once said would now be a giant doorstop or might make a nice fish tank), to today's modern Macs, he handled all of the changes with his typical poise and aplomb, and all with his usual amount of self-effacing humor thrown in for good measure.

At home, Jeff will keep busy taking his wife Kelly to swim (as she loves to do) or taking one of their several cats to various vet appointments. He will also undoubtedly keep busy with one of his many woodworking projects that he has ongoing in his garage. He has also recently invested in a 3D printer, which he has been busy with as well.

Jeff's departure has left a giant hole in the department that has proven extremely difficult to fill (as we all knew it would). Jeff was not only an indispensable part of the department, but his office was often a regular stop for faculty or staff alike, who were looking for computer help or just a friendly chat.



Jeff Taylor

Problem Corner

Consider the following rectangle with a hole (a “damaged rug”). Dissect this configuration into two pieces, each a union of complete “X”s and reassemble the pair into a solid rectangle (a “repaired rug”) using only rigid motions.

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X X X X X X X X X X
X X X X X X X X X X
X X X X X X X X X X
X X                               X X
X X X X X X X X X X X X
X X X X X X X X X X X X
X X X X X X X X X X X X
    
```

Source: Henry Ernest Dudeney, *Puzzles and Curious Problems*, London 1931, Problem 215 – “The damaged rug”



Number Theory Problem

Consider the decimal expansion of $1/n$ for a positive integer n . Let $R(n)$ be the length of the repeating nonzero segment of digits in this expansion (ignoring any initial segment that is not repeated). So $R(1)=0$, $R(2)=0$, $R(3)=1$, $R(4)=0$, $R(5)=0$, $R(6)=1$, $R(7)=6$, etc....

1. Show that $R(n) \leq n-1$. (hint: long-division)
2. Show that if $R(n)=n-1$, then n is a prime.
3. * Show that if $R(n)=n-1$, then the average of the digits of the repeating segment is always 4.5.
4. **** Show that there are infinitely many primes p with $R(p)=p-1$.

Question 4 is an open problem, though demonstrated by Hooley assuming the Generalized Riemann Hypothesis, and was formally conjectured by a former faculty member at IUB Math. (Can you guess who?)

I am grateful to my friend and well-known sports probabilist, Jeff Sagarin, who first asked me question 3. (He was able to solve it as well.)



2024 AWARDS

We held our annual awards ceremony in-person again in April. Check out the program on our news website at <https://bit.ly/3zqSuGn>. We are proud of all our awardees.

Undergraduate Awards

Gail Homan Adele Mathematics Scholarship

Olivia Albert, Sofia Arrebola Garcia, Zoey Foley, Isabel Goodwin, Sophia Hamza, Jia Jia Hodgson, Allison Myers, Nela Riddle, Emily Ward

Ciprian Foias Prize

Yijie Wei

Ruth E. Gilliatt Memorial Scholarship

Clare Regan, Edwin Shipp

Thelma Abell Scholarship

Sam Bleeke, Breanne Gatlin and Ally Graber

Trula Sidwell Hardy Scholarship Fund

Rebekah Wolfson Kilayko

Jeffrey and Deborah King Scholarship

Vitor Braga

Calvin Josenhans

Noah Hoffman

Mathematics Award for Academic Excellence

Logan Ellis, Jacob Renner, Bohao Wang and Carter Wolf

Anne B. Koehler Scholarship

Reed Thompson



Corey M. Manack Memorial Scholarship

Vitor Braga and Evan Halloran

Reed Thompson

Rainard Benton Robbins Prize

Jessica Missey

Kierstyn Roberts Memorial Award

Youha Kim

Graduating Senior Recognition Award

Benjamin Hoham, Nate Southwick, Ethan Steward and Hunter Stewart

Shabani Book Fellowship

Jonathan Kerby-White

Marie S. Wilcox Scholarship

Isabel Goodwin

William P. Ziemer Student Assistance Fund

William Amos, Newen Antinao and Adam Cushman

Undergraduate Assistants Service Award

Katie Pletz

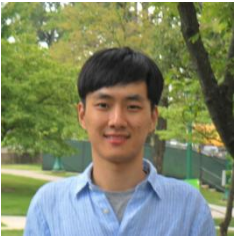
Graduate Awards

Hazel King Thompson Fellowship

Umang Bhat, Patrick Chan, Hyeonmin Cheon, Conor Doig, Christiane Gallos, Dorothea Gallos, Aditya Guha Roy, Lawford Hatcher, Young Ho Kim, Junoh Kim, Nadav Kohen, Chenrui Li, Chia-Tz Liang, Yuxuan Liao, Justin Lin, Zitian Liu, Tanuj Mathur, Maximillian Newman, Hyeji Park, Sean Russell, Vladimir Shein, Nai-Heng Sheu, Franco Storino, Zichuan Wang, Phoebe Watkins, Samuel Whitmire, Boyuan Xiong

College of Arts and Sciences Fellowship

Myungsin Cho, Caroline Davis



Myungsin Cho



Caroline Davis

Robert E. Weber Memorial

Thanic Nur Samin

James P. Williams Memorial

Vladimir Shein

Robert K. Meyer Graduate Fellowship in Mathematics

Pavel Kovalev

Muriel Adams Stahl Graduate Fellowship

Abigail Watkins



Abigail Watkins

William B. Wilcox Mathematics Award

Zhifeng Wei



Zhifeng Wei

David A. Rothrock Teaching Award

Zachary Babyak

DM Zunayed Nibir

Dalton Sconce

Bhatnagar Award for Outstanding Thesis in Applied Mathematics

Dimitrios Diamantidis

Outstanding Thesis Award

Nathaniel Lowry

The Lash Family Mathematics Graduate Support Award

Patrick Chan



Patrick Chan

Mathematics Graduate Fellowship

Alex Glickfield and Lawford Hatcher



Alex Glickfield



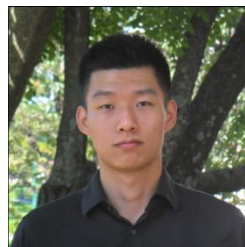
Lawford Hatcher

Women in Science Travel Award

Abigail Watkins

William P. Ziemer Student Assistance Fund

Johnny Yang



Johnny Yang

Thelma Abell Prize

Jessica Babyak and Ricky Simanjuntak

Joseph and Francis Swain Fellowship

Phoebe Watkins



Phoebe Watkins

Mari S. Wilcox Scholarship

Nasheed Jafri

Faculty Awards

Rothrock Mathematics Faculty Teaching Award

Mihai Ciucu



Mihai Ciucu



Vladimir Eiderman



Michael Mandell

Indiana University Trustees' Teaching Award

Vladimir Eiderman

Michael Mandell

Larry Moss



Larry Moss

Rothrock Mathematics Faculty Teaching Award

Joshua Southerland



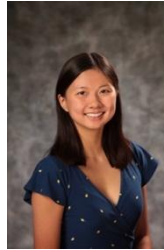
Joshua Southerland

2025 AWARDS

We held our annual awards ceremony in-person again in April. Check out the program on our news website at <https://bit.ly/3zqSuGn>. We are proud of all our awardees.

Graduating Senior Recognition Award

Jia Jia Hodgson, Youha Kim, Nela Riddle, Emily Ward and Jessica Ousterhout



Jia Jia Hodgson



Nela Riddle

Undergraduate Awards

Cora B. Hennel Memorial Scholarship

Declan Dougan & Zachary Kabacinski

Ciprian Foias Prize

Adam Cushman

Trula Sidwell Hardy Scholarship Fund

Greta Hodes

Rainard Benton Robbins Prize

Will Amos

Thelma Abell Scholarship

Ethan Hight

Corey M. Manack Memorial Scholarship

Isabel Goodwin

Kierstyn Roberts Memorial Award

Claire Overfelt

William P. Ziemer Student Assistance Fund

Adam Cushman and Sam Bleeke

Jeffrey and Deborah King Scholarship

Calvin Josenhans



Calvin Josenhans

Undergraduate Assistants Service Award

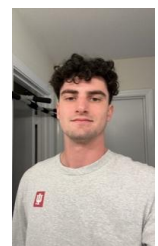
Sophia Hamza

Mathematics Department Award for Academic Excellence

Salim Belhaj, Rocco Fugate, Evan Halloran, Noah Hoffman, Allison Myers, Clare Regan, Evelyn Rohrbach and Jinzhi Wang



Noah Hoffman



Evan Halloran

Graduate Awards

Hazel King Thompson Fellowship

Abhishek Adimurthi
Nathaniel Ainslie
Zachary Babyak
Aritra Bera
Kevin Buck
Patrick Chan
Conor Doig
Samantha Duckworth
Aidan Dunkelberg
Chengzhang Fu
Lawford Hatcher
Chaehee Kim
Onur Korkmaz
Chenrui Li

Chia-Tz Liang
Yuxuan Liao
Justin Lin
Ruiqi (Rachel) Lin
Tanuj Mathur
Samuel Molseed
Arijit Paul
Dalton Sconce
Ronan Soni
Jordan Stempel
Franco Storino
Rostyslav Tyshko
Lynn (Lingxiao)
Wang

Phoebe Watkins
Samuel Whitmire
Jaehoon Yoo
Chi Zhang
Hechi Zhang
Qiyue (Clare) Zhang
Yutan Zhang



Abhishek Adimurthi



Conor Doig



Samantha Duckworth



Onur Korkmaz



Chaehee Kim



Chenrui Li



Rachel Lin



Dalton Sconce



Phoebe Watkins



Samuel Whitmire



Yutan Zhang

Executive Dean's Travel Award for Women in Science

Abigail Watkins



Abigail Watkins

Mathematics Graduate Fellowship

Ben Spencer & Zachary Babyak

Robert E. Weber Memorial Award

Hechi Zhang



Hechi Zhang

Thelma Abell Scholarship

Nasheed Jafri

William P. Ziemer Student Assistance Fund

Arijit Paul



Arijit Paul

James P. Williams Memorial Award

Yutan Zhang

Robert K. Meyer Graduate Fellowship in Logic

Caleb Schultz Kisby (CS)



Caleb Schultz Kisby

Muriel Adams Stahl Graduate Fellowship

Abigail Watkins

William B. Wilcox Mathematics Award

Caroline Davis & Alex Glickfield



Alex Glickfield



Caroline Davis

Glen Schober Travel Award

Kapil Chawla, Myungsin Cho, Woojeong Kim, Onur Korkmaz, Yi-Lin Lee and Chia-Tz Liang

David A. Rothrock Teaching Award

Kevin Buck, Justin Lin and Ben van Welzen



Kevin Buck



Justin Lin



Ben van Welzen

Bhatnagar Award for Outstanding Thesis in Applied Mathematics

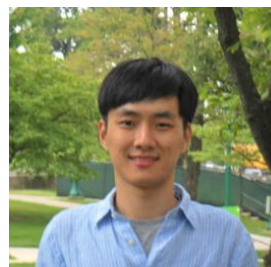
Young Ho Kim



Young Ho Kim

Outstanding Thesis Award

Myungsin Cho



Myungsin Cho

Cora B. Hennel Memorial Scholarship

Sam Whitmire



Sam Whitmire

Faculty Awards

Rothrock Mathematics Faculty Teaching Award

Russell Lyons



Russell Lyons

Indiana University Trustees' Teaching Award

Annie Edwards, Ajay Ramadoss and
Kevin Zumbrun



Annie Edwards



Ajay Ramadoss



Kevin Zumbrun

Zorn Teaching Award

Christopher Felder



Christopher Felder

ALUM NEWS

Thomas Aquino received a Mathematics minor in 2015. He studied linear algebra, differential equations, and multivariable calculus. Thomas went on to earn a Master of Music, Guitar Performance and Doctor of Music in Guitar Performance at Indiana University - Bloomington.

Thomas earned Best Guitar Performance – 2020 Twisted Spruce Symposium. Twisted Spruce is an exceptional workshop that connects guitarists and composers to collaborate on new works for the guitar.

Thomas is currently a software developer at Georgia Pacific.

You can hear some of Thomas' work here:
<https://www.youtube.com/watch?v=1MlSnR1tB8Y>



Thomas Aquino

Dr. Holly Attenborough Interviewed on Radio

Mathematics PhD alumna **Dr. Holly Attenborough** '13 was recently interviewed on Wisconsin Public Radio. In her interview, she shares some of the history of math and the importance of including it in the classroom.

Dr. Attenborough has won multiple awards:

- 2021 Alliant Energy Underkofler Teaching Excellence Award (UW-System)
- 2020-2021 Mathematical Association of America Wisconsin Section Distinguished Teaching Award
- 2018 UW-Platteville Early Career Faculty Award for Teaching Excellence
- 2017-2018 Wisconsin Teaching Fellow



Holly Attenborough

ALUMS AND FRIENDS GIVING BACK

The Second Annual Math, Econ, and Stat Liberal Arts Impact online event in February 2024 helped hundreds of students to connect with young alums. **Ivana Chen '14** is Product Strategy Lead at Google; **Elizabeth Saunders '20** is Director's Financial Analyst at Consumer Financial Protection Bureau; **Ann Marie Matheny '20** is Senior Consultant at Guidehouse; and **Jade Mays '16** is Sr. Program Manager at Meta.



*Ann Marie
Matheny*



Ivana Chen

Joel and Sheila Lash endow new graduate award

IU mathematics alumnus Joel Lash '92 is currently the Engineering Sciences Director at Sandia National Laboratories. He has had diverse technical leadership experiences, including managing the world's largest pulsed power facility. He visited IU over four days this past February and participated in the College's Connect Conference. He also spent time visiting mathematics faculty and graduate students. Joel and wife Sheila have endowed a new graduate support award bearing their name.



Joel Lash

PhD graduates Yining Cao '20 and Aimin Huang '14 support ISCAM

Math Ph.D. alums **Dr. Yining Cao**, postdoctoral researcher at Southern University of Science and Technology in Shenzhen, China, and **Dr. Aimin Huang**, researcher at Hangzhou Higgs Asset Management Co., Ltd. in Hangzhou, China, received their degrees under the mentorship of College Distinguished Professor Roger Temam, who directed the Institute for Scientific Computing and Applied Mathematics. Cao's and Huang's recent earmarked pledges will help further ISCAM's mission.



Aimin Huang

GIVING

The Department of Mathematics is grateful for all the support it receives from its generous donors. The Department has several funds to which you can give. Donations may be made using the attached Indiana University Foundation Donation Form or through the Give Now link at <https://math.indiana.edu> found by following first “About” and then “Alumni and Giving”.

- Mathematics Enrichment Fund (I380008688): Gifts to this fund will be used for the general support of the Mathematics Department, in the College of Arts and Sciences.
- William P. Ziemer Student Assistance Fund (P370013557): Gifts to this endowment are used to support both undergraduate and graduate students in the Department.
- Glenn Schober Memorial Fellowship Fund (I380008692): Gifts to this fund support fellowships in the department. The fellowship may support things like travel and registration fees for students attending national meetings.

The Indiana University Foundation solicits tax-deductible private contributions for the benefit of Indiana University and is registered to solicit charitable contributions in all states requiring registration. For our full disclosure statement, see <http://go.iu.edu/89n>.