



UNIVERSITY OF KENTUCKY · COLLEGE OF ARTS & SCIENCES

Department of Mathematics



Greetings from Mathematics Chair Uwe Nagel

Dear Alumni and Friends:

Welcome to the fall newsletter of the UK Department of Mathematics. I want express my gratitude to **Peter Perry**, who served as Interim Chair, and thank him for his excellent leadership

during the past academic year.

Last year, we resumed our traditional special lecture series. Emily Riehl from Johns Hopkins University delivered the **Hayden-Howard Lecture**. We were fortunate to have two speakers giving **Eaves Lectures**, Henry Segerman from the University of Oklahoma in the fall of 2022 and Alissa Crans from Loyola Marymount University last spring.

Many of you attended our **Alumni Day** on April 7. Our former doctoral students, David Cook, Jiyeon Jung, and Daphne Skipper, delivered exciting lectures on their career paths. In addition, our alum Mark Motley (Ph.D. 2002) talked on Post-Quantum Cryptography last fall. Additionally, the departmental **Spectra** student chapter hosted the national Spectra Survey of Mathematics Conference 2023 this past May.

We are fortunate to have many outstanding students and faculty who excel in teaching, research, and service. Five faculty were recognized by the College of Arts

and Sciences Faculty and received Awards: **Katherine Paullin** (Peer Mentoring), **Bertrand Guillou** (Outstanding Teaching), **Bradley Elliott** (Outstanding Teaching), **Chloe Wawrzyniak** (Promotion of Diversity or Inclusion), **Christopher Manon** (Outstanding Undergraduate Research Mentoring). Furthermore, three graduate students were honored for their outstanding teaching: Angela Hansen (Provost Award), Kaitlin Bruegge (A&S Award), and Lewis Dominguez (A&S Award).

Effective July 1, 2023, **Kate Ponto** was promoted to full professor. **Nat Stapleon** and **Xuancheng Shao** were selected for three-year appointments as Edwards Research Professor and Royster Research Professor, respectively. In his third year at UK, **Duc Nguyen** received his third NSF grant to support his research.

In May and August 2023, twelve students graduated with a Ph.D. We are proud that all of them obtained a high-quality position in academia, industry, or government.

We are excited that we were able to recruit three new faculty, namely lecturers **Michael Baker**, **Mario Ordonez**, and **Praneel Samanta**. We also welcome a large incoming class of 21 graduate students. They will help us to educate the largest ever incoming class of students at UK.

We are looking forward to what the next academic year will bring for the department, college, and university.

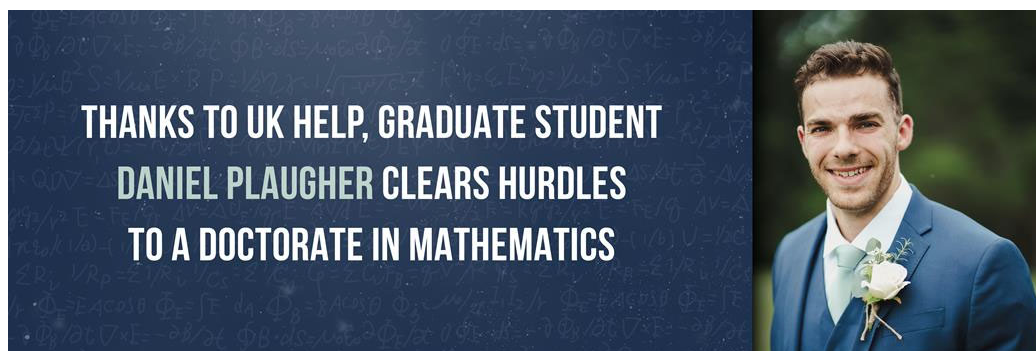
Best wishes,

Uwe Nagel

Professor and Chair

Department of Mathematics

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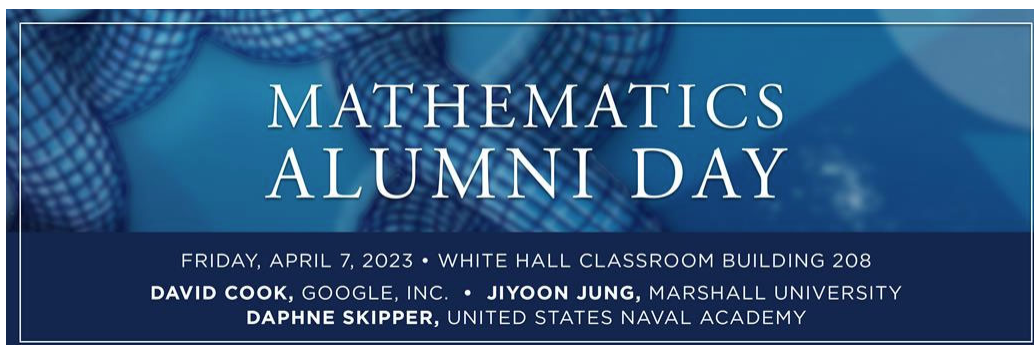
Daniel Plaugher, a 2022 doctoral graduate in Mathematics, secured a two-year postdoctoral research position at the University of Kentucky's Markey Cancer Center. Plaugher was supported by our Graduate Scholars in Mathematics program. [**Read more.**](#)

UPCOMING EVENTS

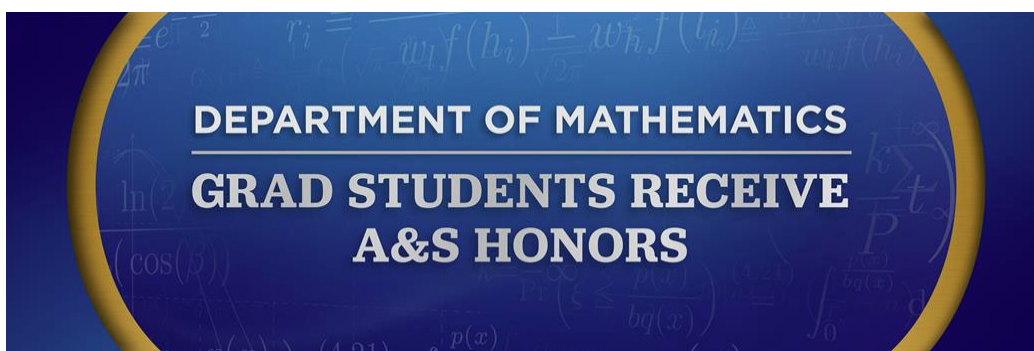
The Department of Mathematics is hosting the **Ohio River Analysis Meeting (ORAM 13)** at the University of Kentucky March 16-17, 2024.

The Department of Mathematics is hosting the **Mixed Integer Programming Workshop** at the University of Kentucky June 3-6, 2024.

Please check the **Department of Mathematics calendar** for upcoming events and lectures.



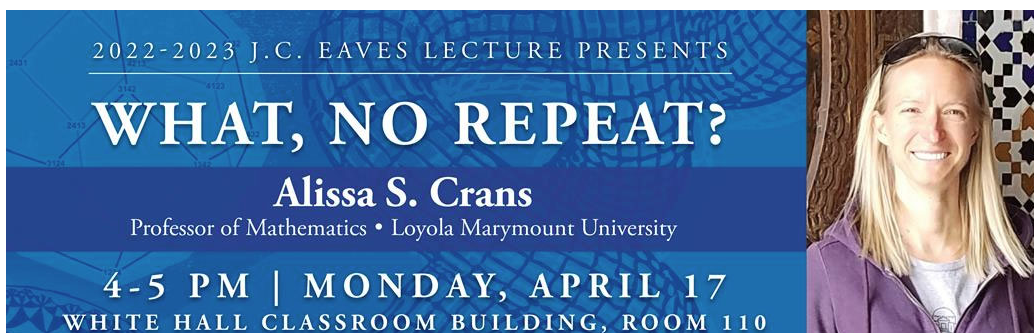
The department's annual Alumni Day welcomed David Cook, Jiyoung Jung, and Daphne Skipper. **[Read more.](#)**



Five faculty earned recognition from the College of Arts and Sciences for **outstanding teaching, mentoring, and service**. In addition, **Angela Hanson** received a **2023 Outstanding Teaching Award** from the UK Provost's Office.

2022-2023 LECTURES AND EVENTS

Read below to learn more about the Department of Mathematics' activities from the 2022-2023 Academic Year.




The spring **J.C. Eaves Lecture** featured Dr. Alissa Crans from Loyola Marymount University. [Read more.](#)

2022 Hayden-Howard Lecture

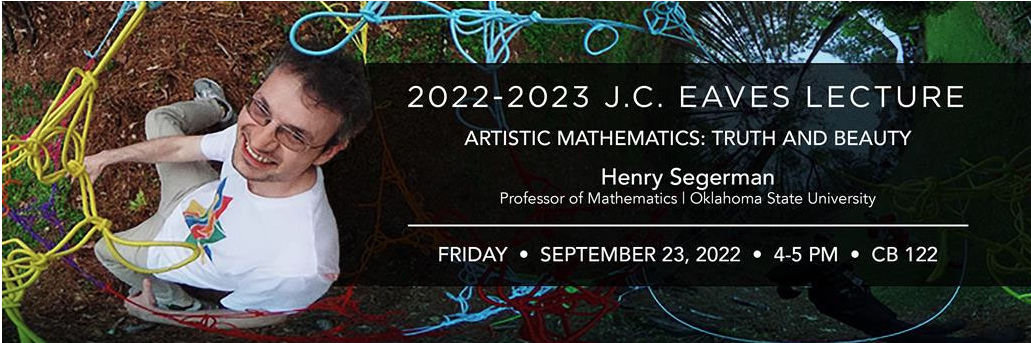
Emily Riehl

Path Induction and the Indiscernibility of Identicals

September 29 | 4 pm | CB 114



This year's **Hayden-Howard Lecture** featured Dr. Emily Riehl from Johns Hopkins University on "Path Induction and the Indiscernibility of Identicals." [Read more.](#)



2022-2023 J.C. EAVES LECTURE

ARTISTIC MATHEMATICS: TRUTH AND BEAUTY

Henry Segerman
Professor of Mathematics | Oklahoma State University

FRIDAY • SEPTEMBER 23, 2022 • 4-5 PM • CB 122


The fall **J.C. Eaves Lecture** featured Dr. Henry Segerman from Oklahoma State University. [Read more.](#)


The Department of Mathematics presents:

Post-Quantum Cryptography

Mark Motley, National Security Agency

September 13 | 4 PM | CB 114



 College of Arts and Sciences

Mark Motley, a 2002 doctoral graduate in Mathematics, visited UK and spoke about his work at the National Security Agency, one of the nation's largest employers of mathematicians. [Read more.](#)

GIVING OPPORTUNITIES

UK's Department of Mathematics is the leader in the Commonwealth of Kentucky in

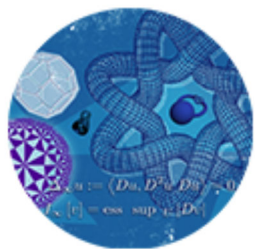
both mathematics education and research in the areas of pure and applied mathematics.

Your gift to the Mathematics Development Fund or to a specific fund such as the **Dr. J. C. Eaves Undergraduate Excellence in Mathematics Endowment Fund**, **Enochs Graduate Algebra Scholarship Fund**, or the **Carl Lee Excellence in Teaching Award** will provide critical resources to respond to student needs, attract world-class faculty, and support innovative opportunities for growth. Your contribution is an investment in the future of the department and the next generation of students. You can also make your gift in honor of or in memory of a friend, relative, or faculty member.

A gift to other funds that support the department can be made online at www.as.uky.edu/givetoas. Please use the search box in the upper right corner of the screen and type the name of the fund. By mail, please send to:

UK Philanthropy
P.O. Box 23552
Lexington, KY 40523

For assistance, please contact **Debra Gold** at **859-257-8124** or debra.gold@uky.edu.



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