



**ANNUAL  
MATHEMATICS  
AWARDS  
PRESENTATION**

**FRIDAY, APRIL 28, 2023  
3:00 PM  
ROTHROCK AUDITORIUM  
RAWLES HALL ROOM 100**

# WELCOME

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Welcome to our Awards Ceremony where we announce the prizes, awards, scholarships, and fellowships our undergraduate students, graduate students, and faculty teachers have earned this year. We thank all of the donors who make these prizes, awards, scholarships, and fellowships possible.

The Department of Mathematics at Indiana University Bloomington has a long tradition of inclusion and excellence. The first African-American to get a degree at Indiana University, Marcellus Neal, was a mathematics major, receiving his A.B. in 1895. The first Ph.D. in Mathematics at Indiana University was awarded to a woman, Cora B. Hennel, in 1912. The first African-American to earn a mathematics Ph.D. in the United States, Elbert Cox, was an undergraduate mathematics and physics major at Indiana University, graduating in 1917.

An important early figure in the Department of Mathematics was David Rothrock who was an excellent teacher and served as Dean of the College of Arts and Sciences and as Director of Admissions. Our awards ceremony is held in the Rothrock Auditorium.

Cora B. Hennel also stayed on in the department as Assistant then Associate then Full Professor of Mathematics. She was a poet, an administrator, a gifted public speaker, and founder of the Euclidean Circle, the precursor to our current Math Club. Our reception is held in the Cora B. Hennel Lounge.

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# UNDERGRADUATE AWARDS AND PRIZES

## **GAIL HOMAN ADELE MATHEMATICS SCHOLARSHIP**

*Olivia Albert*

*Allison Myers*

*Sofia Arrebola Garcia*

*Jessica Ousterhout*

*Brie Blazek*

*Claire Overfelt*

*Isabel Goodwin*

*Remy Parks*

*Sophie Greenfield*

*Katie Pletz*

*Sophia Hamza*

This scholarship was established in 2017 by Gail Homan Adele who earned her B.A. and M.A. in Mathematics in 1962 and 1963, respectively, from Indiana University and her Ph.D. in 1968 from Michigan State University. She went on to a long career as a faculty member in Mathematics at Western Washington University and at the University of Idaho, teaching and mentoring students. This scholarship supports new generations of women in mathematics and supports underrepresented groups, encouraging financially challenged students and students with diverse cultural experiences.

## **CIPRIAN FOIAS PRIZE**

*Ethan Steward*

This prize was established in 1995 by Paul and Miriam Biss to thank Professor Foias and the Department of Mathematics for their generosity and talent in guiding the mathematical education of their son Daniel Biss. The prize is to be given to an outstanding undergraduate mathematics major.

## **RUTH E. GILLIATT MEMORIAL SCHOLARSHIP**

*Katie Pletz*

In establishing this scholarship, her brothers, Harold, Donald, Paul, and David Gilliatt asked that each recipient receive a copy of the following statement: "This scholarship is endowed in honor of Ruth E. Gilliatt, B.A. 1944, by her brothers. We recognize that her willingness to earn her college expenses working as a housekeeper made her a woman with ambitions ahead of her time. Ruth Gilliatt taught mathematics in the Indiana school system for five years, then began a long successful career with Sears, Inc. It is our hope that her hard work and dedication to the value of education is an inspiration to those who benefit from her memorial."

## **TRULA SIDWELL HARDY SCHOLARSHIP FUND**

*Jessica Missey*

This fund was established in 1993 by Trula Sidwell Hardy, a 1924 graduate with a B.A. in Mathematics. This fund was created to support the students in the Department of Mathematics.

### **CORA B. HENNEL MEMORIAL SCHOLARSHIP**

*Ryan Brooks, Justin Lin, Edwin Shipp, and Hunter Stewart*

This fellowship was established in 1958 by Cecilia Hennel Hendricks as a memorial to her sister. In 1912, Cora Hennel received the first Ph.D. awarded in Mathematics at Indiana University. Throughout her 42 year career at Indiana Professor Hennel was known for her love of learning, excellent teaching, and commitment to being an advisor and friend to students. Hennel Scholarships are awarded to worthy students who have demonstrated high ability in mathematics.

### **ANNE B. KOEHLER SCHOLARSHIP**

*Lucy Lippman, Daniel Rickert, and Reed Thompson*

This scholarship was established in 2015 by Anne Koehler who earned her B.A. in Mathematics in 1962, her M.A. in Mathematics in 1963, and her Ph.D. in Mathematics in 1968 all from Indiana University. She had a distinguished career as the Panuska Professor of Business Administration at Miami University and was named a Fellow by both the Decisions Sciences Institute and the International Institute of Forecasting. This scholarship supports and encourages incoming freshmen students in the Department of Mathematics who show promise of succeeding.

### **DONALD OTTO KOEHLER SCHOLARSHIP**

*Arthur Hertz and Andrew Smith*

This scholarship was established in 2006 by Anne B. Koehler in memory of her husband, who had a lifelong interest in mathematics. Donald Koehler was also a graduate of the Indiana University Mathematics department, earning a Ph.D. in 1968. Anne and Donald met as graduate students in Mathematics at Indiana University. The Koehlers's desire is to support a student who is mathematically talented and well-rounded in other subjects, especially musical pursuits such as choir or band.

### **COREY M. MANACK MEMORIAL SCHOLARSHIP**

*Evan Halloran and Shinx Sarah*

This scholarship honors the memory of Corey M. Manack who obtained his Ph.D. in Mathematics from Indiana University in 2010 and is awarded to an undergraduate who has shown promise or excelled in undergraduate research.

### **RAINARD BENTON ROBBINS PRIZE**

*Jackson Taylor*

This prize in Mathematics was established in 1951 by Helen S. Robbins in memory of her husband. He received his A.B. and A.M. in Mathematics from Indiana (1909, 1910) and his Ph.D. from Harvard (1914). Following his years at Yale and the University of Michigan, he was with the New York Insurance Department. In 1931, he joined the Teachers Insurance and Annuity Association where he served as secretary and vice-president until 1948. The Robbins Prize is given to a student who shows promise in the study of mathematics.

### **KIERSTYN ROBERTS MEMORIAL AWARD**

*Jonathan Kerby-White*

This award, established in 2022, honors the memory of IU math major Kierstyn Roberts. A residence hall assistant active in ministry and lover of the outdoors, she pursued her study of mathematics as she battled terminal illness. The award recognizes a student who shows determination and persistence in the study of mathematics

### **GRADUATING SENIOR RECOGNITION AWARD**

*Ishan Bagai, Daniel Rickert, Andrew Smith, and Sophie Thorpe*

This award is given by the Mathematics Department to recognize outstanding math majors who are graduating in May.

### **SHABANI BOOK FELLOWSHIP**

*Adebowale Adelekan*

This fellowship was established in 2015 by Amina Shabani to honor her father, Juma Shabani, who is a mathematics professor.

### **MARIE S. WILCOX SCHOLARSHIP**

*Samanwita Samal, Shinx Sarah, Hunter Stewart,  
and Jinzhi Wang*

This scholarship was established in 1981 by Marie S. Wilcox. After graduating from Indiana University, Marie Wilcox distinguished herself as a teacher, lecturer, and author. For many years she also directed Indiana University's Summer Institute for Teachers of Mathematics. The Wilcox Scholarship was established to recognize students who demonstrate a deep understanding and appreciation of mathematics and who maintain a record of high academic achievement.

### **WILLIAM P. ZIEMER STUDENT ASSISTANCE FUND**

*Will Amos and Chi Zhang*

This fund was established in 2017 by Suzanne Ziemer in honor of her late husband. William P. (Bill) Ziemer was an excellent teacher, a distinguished researcher, and a gifted expositor of mathematics. He served twice as Chair, leading the department into the computer age in the 1980's, and also served as the Associate Dean of the University Graduate School. To honor Bill's devotion to his students, Suzanne established this fund with the intent that its income be used to support both undergraduate and graduate students in the Department of Mathematics, including undergraduate and/or graduate scholarship support, conference attendance, and program-related travel expenses.

### **JEFFREY AND DEBORAH KING SCHOLARSHIP**

*Matthew Hayden, Nela Riddle, and Daniel Skora*

This scholarship was established in 2015. Jeffrey King earned his B.A. in Mathematics from Indiana University in 1970 and established this scholarship to express his appreciation for the education and support he received from the Department of Mathematics. The scholarship supports mathematics majors.

### **UNDERGRADUATE ASSISTANTS SERVICE AWARD**

*Corey Chung*

This award was established in 1997 by Professors Maki, Thompson, and Wheeler to recognize and reward outstanding department service by undergraduates assisting the Finite Mathematics course.

### **MATHEMATICS DEPARTMENTAL AWARD FOR ACADEMIC EXCELLENCE**

*Jordan Cobb, Peyton Eaton, Logan Ellis,  
and Braydon Povinelli*

This award is given by the Mathematics Department to recognize and to encourage outstanding math majors in their undergraduate studies.

# GRADUATE AWARDS

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## HAZEL KING THOMPSON FELLOWSHIP

<i>Asma Alrashidi</i>	<i>Akash Jena</i>	<i>Sean Russell</i>
<i>Zoia Arkhipova</i>	<i>Legrand Jones</i>	<i>Amajit Sarma</i>
<i>Jessica Babyak</i>	<i>Hongki Jung</i>	<i>Dalton Sconce</i>
<i>Zachary Babyak</i>	<i>Somi Kang</i>	<i>Nai-Heng Sheu</i>
<i>Ramyak Bilas</i>	<i>Deepali Kapoor</i>	<i>Ricky Simanjuntak</i>
<i>Patrick Chan</i>	<i>Chaehee Kim</i>	<i>Kai Smith</i>
<i>Christian Cofoid</i>	<i>Joshua Kim</i>	<i>Ryan Stees</i>
<i>Conor Doig</i>	<i>Junoh Kim</i>	<i>Jordan Stempel</i>
<i>Aidan Dunkelberg</i>	<i>Nadav Kohen</i>	<i>Franco Storino</i>
<i>Ayça Durmaz</i>	<i>Sergei Kopylov</i>	<i>Tianyu Sun</i>
<i>Jiajun Feng</i>	<i>Onur Korkmaz</i>	<i>Lingxiao Wang</i>
<i>Chengzhang Fu</i>	<i>Yi-Lin Lee</i>	<i>Zichuan Wang</i>
<i>Christiane Gallos</i>	<i>Chenrui Li</i>	<i>Abigail Watkins</i>
<i>Dorothea Gallos</i>	<i>Chia-Tz Liang</i>	<i>Phoebe Watkins</i>
<i>Abhishek Gopal</i>	<i>Ahram Lim</i>	<i>Samuel Whitmire</i>
<i>Sarah Gorman</i>	<i>Zitian Liu</i>	<i>Boyuan Xiong</i>
<i>Chong Gu</i>	<i>Yevhen Melnyk</i>	<i>Fernanda Yopez-Lopez</i>
<i>William Holt</i>	<i>D M Zunayed Kamal</i>	<i>Alfred Yerger</i>
<i>Inhak Hwang</i>	<i>Nibir</i>	<i>Ramazan Yol</i>
<i>Osanda Illeperuma</i>	<i>John Philip Pampreen</i>	<i>Long Zhao</i>
<i>Nasheed Jafri</i>	<i>Arijit Paul</i>	

This fellowship supports the department's efforts to recruit outstanding students in mathematics. Hazel Thompson received her B.A. in Mathematics from Indiana University in 1909. She then taught in public school and later assumed operation of the family stone milling business after the death of her husband. In her later years, she completed her M.A. at Indiana University and did some work in the Department of Mathematics before retiring in the early 1950's.

## COLLEGE OF ARTS AND SCIENCES FELLOWSHIP

<i>Asma Alrashidi</i>	<i>Chia-Tz Liang</i>
<i>Aidan Dunkelberg</i>	<i>D M Zunayed Kamal Nibir</i>
<i>Jiajun Feng</i>	<i>Jordan Stempel</i>
<i>Sarah Gorman</i>	<i>Lingxiao Wang</i>
<i>Osanda Illeperuma</i>	<i>Samuel Whitmire</i>
<i>Chaehee Kim</i>	<i>Chi Zhang</i>
<i>Junoh Kim</i>	
<i>Onur Korkmaz</i>	

## MATHEMATICS GRADUATE FELLOWSHIP

*Yuxuan Liao and Chi Zhang*

## ROBERT E. WEBER MEMORIAL AWARD

*Yuxuan Liao*

This award is given annually to a graduate student in mathematics whose performance on the Tier 1 exams is judged the best by the Graduate Committee. The memorial fund was established in 1980 by the family and friends of Robert Weber, who received a Ph.D. in Mathematics from Indiana University in 1972.

### **JAMES P. WILLIAMS MEMORIAL AWARD**

*Sergei Kopylov*

This award is given each year to outstanding graduate students in recognition of their performance during the first year of their graduate studies. The memorial fund was established by the family and friends of Jim Williams, a professor in the Department of Mathematics from 1966 until his untimely death in 1983. In addition to his mathematical achievements, Professor Williams is especially remembered for his interest in the graduate program.

### **ROBERT K. MEYER GRADUATE FELLOWSHIP IN LOGIC**

*Pavel Kovalev*

This award was established in 2011 by President Michael McRobbie and First Lady Laurie Burns McRobbie to honor the memory of President McRobbie's Ph.D. advisor, the distinguished logician Robert K. Meyer. The award is given to a graduate student within mathematical, computational, and philosophical logic who has been judged to have demonstrated exceptional promise and has the potential to make major breakthroughs in these fields.

### **PAST ROBERT K. MEYER GRADUATE FELLOWSHIP RECIPIENTS**

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2022 Noah Kaufmann  
2021 Noah Kaufmann  
2020 Robert Rose  
2019 David Fisher  
2018 Praveen Narayanan  
2017 Robert Rose

### **MURIEL ADAMS STAHL GRADUATE FELLOWSHIP**

*Abigail Watkins*

This award was established in 2008 in memory of Muriel Adams Stahl by her family to support a graduate student in mathematics and encourage advanced study in mathematics. Muriel Stahl earned her Master's degree at Indiana University in 1934.

### **WILLIAM B. WILCOX MATHEMATICS AWARD**

*Alex Glickfield*

This fund was established in 1994 by Marie S. Wilcox to acknowledge her husband William B. Wilcox's inestimable help and support to her endeavors as a mathematics teacher, lecturer, and author; the award is given to outstanding graduate students in the Department of Mathematics.

### **THELMA ABELL SCHOLARSHIP**

*Michael Johnson and Christina Duffield*

This prize was established in 1996 by Philip A. Fox to honor his aunt, who spent her career teaching mathematics in high school. It recognizes undergraduate or graduate students who express an interest in teaching, have high scholastic merit, and demonstrate financial need.

### **DAVID A. ROTHROCK (1864-1949)**

The David A. Rothrock Mathematics Fellowship Awards are given in recognition of excellence in the teaching of mathematics. This fellowship was established in 1956 through a gift from Everett Antrim, a 1905 graduate and a former student of Professor Rothrock, who was a member of the faculty from 1892 to 1938.

David A. Rothrock received both the A.B. and A.M. degrees from Indiana University and the Ph.D. degree from the University of Leipzig. He was a member of the Department of Mathematics at Indiana University from 1892 until his retirement in 1938. He served as Dean of the College of Arts and Sciences from 1920 to 1937 and as Director of Admissions from 1937 to 1938.

Widely recognized as a fine scholar, Professor Rothrock was a master teacher, who inspired students and other faculty throughout his long career. He was the author of several textbooks on college mathematics, and a contributor to many journals. He left a lasting impression on many thousands of students and on Indiana University.

### **DAVID A. ROTHROCK TEACHING AWARD**

*Somi Kang*

*Ben Spencer*

*Ryan Stees*

### **THE LASH FAMILY MATHEMATICS GRADUATE SUPPORT AWARD**

*Phoebe Watkins*

This fund was established by Dr. Joel Lash and family. Dr. Lash received a Bachelor of Science in Mathematics from Indiana University.

### **BHATNAGAR AWARD FOR OUTSTANDING THESIS IN APPLIED MATHEMATICS**

*Aric Wheeler*

Dr. Bhatnagar received his MA from the University of Punjab and, with his father's encouragement, travelled to Indiana University in 1968 to begin doctoral studies. He earned his PhD in applied mathematics from IU in 1974 with a thesis in partial differential equations. Dr. Bhatnagar and his son Avnish Bhatnagar established this award in 2021 to create greater public awareness of the value of applied mathematics and to inspire students and alumni.

### **OUTSTANDING THESIS AWARD**

*Sean Sanford*

This award was established in 2010 and recognizes a graduating Ph.D. student whose dissertation is judged to be outstanding.



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# FACULTY AWARDS

## ROTHROCK MATHEMATICS FACULTY TEACHING AWARD

*Peter Sternberg*

This award was created and endowed in 1990 by Mary Estelle Rothrock and David A. Rothrock, Jr. in memory of Dean David A. Rothrock, a distinguished member of the faculty from 1892 to 1937. Dean Rothrock began teaching in a one-room country school at the age of 17. By the time of his retirement he had taught 8,791 university students and was widely recognized for his teaching accomplishments. A resolution passed by the Faculty of Indiana University upon his death in 1949 noted that Dean Rothrock was "...at heart a teacher and life seemed really to begin for him when, on his return to Indiana University (in 1892), he gave his whole time to teaching mathematics... It was in no small part due to his inspirational teaching that in 1930 more members of the American Mathematical Society were found to have had their undergraduate mathematics at Indiana University than at any other school in the country except Harvard."

To encourage excellence in the teaching of mathematics, this faculty award is given for outstanding teaching at all levels from service courses through thesis mentoring. We thank the members of the Rothrock family for their continued support of the award.

## PAST ROTHROCK FACULTY AWARD RECIPIENTS

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1990	Daniel Maki	2007	Robert Glassey
1991	Madan Puri	2008	David Hoff
1992	John Brothers	2009	Roger Temam
1993	Charles Livingston	2010	Richard Bradley
1994	Bruce Solomon	2011	Jiri Dadok
1995	Ciprian Foias	2012	Paul Kirk
1996	Vinay Deodhar	2013	Darrell Haile
1997	William Wheeler	2014	Hari Bercovici
1998	William Ziemer	2015	Ayelet Lindenstrauss
1999	Allan Edmonds	2016	Ciprian Demeter
2000	Peter Sternberg	2017	Christopher Connell
2001	Victor Goodman	2018	Kent Orr
2002	Lawrence Moss	2019	Christopher Judge
2003	Michael Jolly	2020	Matthias Weber
2004	Maynard Thompson	2021	Kevin Zumbrun
2005	Daniel Maki	2022	Michael Mandell
2006	Michael Larsen		

**INDIANA UNIVERSITY TRUSTEES'  
TEACHING AWARD**

*Jim Davis and Matthias Strauch*

**ZORN TEACHING AWARD**

*Chaojie Yuan*

The Zorn Teaching Award is a departmentally funded award that recognizes enthusiastic and inspirational teaching by a Zorn Postdoctoral Fellow in the department.