Indiana University

Annual Mathematics Awards Presentation

Honoring Undergraduates, Graduates, and Faculty

Friday, May 1, 2020
3:00 PM
Rawles Hall 100
Welcome

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.

Past Rothrock Faculty Award Recipients

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<th>Year</th>
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<td>1990</td>
<td>Daniel Maki</td>
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<td>1991</td>
<td>Madan Puri</td>
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<td>Charles Livingston</td>
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<td>William Wheeler</td>
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<td>William Ziemer</td>
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<td>Darrell Haile</td>
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<td>Allan Edmonds</td>
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<td>Hari Bercovici</td>
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<td>Peter Sternberg</td>
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<td>Ayelet Lindenstrauss</td>
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<td>Victor Goodman</td>
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<td>2002</td>
<td>Lawrence Moss</td>
<td>2017</td>
<td>Christopher Connell</td>
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<td>2003</td>
<td>Michael Jolly</td>
<td>2018</td>
<td>Kent Orr</td>
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<td>2004</td>
<td>Maynard Thompson</td>
<td>2019</td>
<td>Christopher Judge</td>
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Indiana University Trustees’ Teaching Award

Elizabeth Housworth
Greg Kattner
Noah Snyder

Departmental Service Award

Zhixu Su

Zorn Teaching Award

Graham White

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

Rothrock Mathematics Faculty Teaching Award

Matthias Weber

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.

Undergraduate Awards and Prizes

Thelma Abell Prize

Mallory Smith, Greta Stephenson, and Zayn Karim

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.

Gail Homan Adele Mathematics Scholarship

Lucy Lippman, Gabbie Moreno and Christina Duffield

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

Preston Sayers

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

*Yunping Wang and Franco Storino*

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

*Abel Leite*

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

*Arryngton Ladd, Alex Ratcliffe, Iona Pfingston and Jared Roush*

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.

Outstanding Thesis Award

*Didac Martinez-Granado, Kursat Sozer and Pengfei Tang*

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

College of Arts and Sciences Dissertation Research Fellowship

*Didac Martinez-Granado*
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.

Jeffrey and Deborah King Scholarship
Daniel Rickert and Isaak Mount

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.

Anne B. Koehler Scholarship
Daniel Rickert and Lucy Lippman

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, Zachary Lichtenstein, Andrew Morgan 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. 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.

Cory M. Manack Memorial Scholarship
Dalton Sconce

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

Jiongran Wang

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.

Graduating Senior Recognition Award

Matthew Denney, Phuong Dong Le, Elizabeth Saunders and Tiancheng Xu

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

Shabani Book Fellowship

Parice Burris

This fellowship was established in 2015 by Amina Shabani to honor her father Juma Shabani, who was a mathematics teacher. It supports students who are African or have a close relative who is, African-American students or international students who are majoring or minoring in mathematics.

Glenn Schober Memorial Travel Awards

Sanjana Agarwal  
Vinicius Ambrosi  
Hayley Bertrand  
Seok Hyun Byun  
Adnan Cihan Cakar  
Kelvin Guilbault  
Aranya Lahiri

Xugiang Qin  
Emily Rudman  
Ryan Stees  
Krutika Tawri  
Brady Thompson  
Cong Zhou

This award was established in 1996. The travel awards are given to advanced Ph.D. graduate students in the Department of Mathematics. These awards are made possible by a memorial fund established to honor the memory of the late Professor Glenn Edward Schober. Professor Schober joined the Indiana University faculty in 1966 and remained a prominent member of the faculty until his untimely death in 1991.

College of Arts and Sciences Travel Award

Steven Hussung and Homin Lee

Provost’s Travel Award for Women in Science

Cemile Kurkoglu
Muriel Adams Stahl Graduate Fellowship

Sanjana Agarwal

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.

Joseph & Frances Morgan Swain Fellowship

Hayley Bertrand

Alternating between Mathematics and Astronomy, this fellowship was funded in memory of Joseph Swain by his widow. Joseph Swain was a key figure in the early development of the Indiana University Department of Mathematics.

William B. Wilcox Mathematics Award

Sailun Zhan

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.

Marie S. Wilcox Scholarship

Bethany Brinson, Yijia Chen, Kelli Michaels, Somi Kang and Samanwita Samal

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

Daniel Freese, Akash Jena, Hongki Jung, Mark Ossouren, and Tianshu Yu

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.

M118 Undergraduate Intern Award

Kurumi Narasaki

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.
Graduate Awards

Hazel King Thompson Fellowship

Vinicius Ambrosi  Peter Marek
Seok-Hyun Byun   Insung Park
Noah Kaufmann   Noah Riggenbach
Dominique Kemp   Sean Sanford
Anuj Kumar    Dylan Spence
Cemile Kurkoglu   Krutika Tawri
Homin Lee    Aric Wheeler

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.

Robert E. Weber Memorial Award

Boyuan Xiong

This award is given annually to a graduate student in mathematics whose performance on the Tier I 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

Caroline Davis, Nicolas Escobar Velasquez, Joshua Meyers and Xinwu Yang

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 Mathematics

Robert Rose

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.