University of Michigan Mathematics Department Newsletter

2021 Commencement

On April 30, the department hosted virtual commencement ceremonies for both the undergraduate and graduate programs. The graduate ceremony took place at 9am as a zoom gathering, with 60 participants. The department recognized 57 Doctoral Degree and Master's Degree recipients. A video of the ceremony is available here.

The undergraduate commencement ceremony included two "live" viewings, with attendance of 156 at the 2pm gathering, and 86 at the 10pm viewing. The ceremony recognized 221 math majors and 181 math minors. Participants viewed the video while socializing virtually with faculty, families, and other graduates through the Remo platform. The commencement video is available here.

Congratulations to all of the graduates!

Awards and Fellowships

Graduate awards and fellowships were distributed in a virtual Ice Cream Social held on May 3. There were 60 students, faculty and staff on the zoom gathering. A list of the awardees is available on pages 3-4.

The Undergraduate Awards Ceremony again utilized the Remo platform to allow participants to gather virtually while viewing the Awards. This platform also allowed donors who supported various awards to attend and socialize with the faculty as well as the students who were being recognized. About 86 people participated virtually in the ceremony, including donors to awards Marc Altschull, David Hartman, and Hiram Levy. A full list of the awardees is available on pages 4-6, and the video can be seen here.
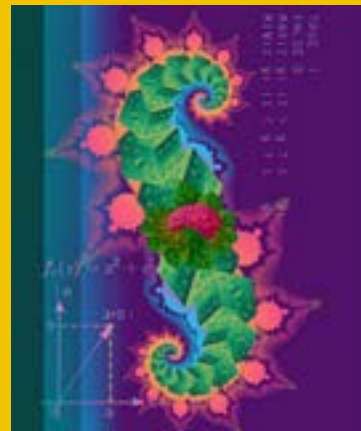
Marjorie Lee Browne Scholars Program Featured In Statewide News Article

The Marjorie Lee Browne Scholars Program is the subject of a feature article, along with videos, published by Michigan Impact. Some current and former students are profiled, along with the director Professor Trachette Jackson.

Sarah Koch Featured In LSA Magazine Story About Basic Science

The research of Professor Sarah Koch is featured in a recently published LSA Magazine story about basic science. Other stories in the magazine are also available, including an interview with Tim McKay about the role of the natural sciences in LSA.

Karen Smith Elected to the American Academy of Arts and Sciences

Karen Smith, the M.S. Keeler Professor of Mathematics, has been elected to the American Academy of Arts and Sciences. She is one of 252 extraordinary individuals with outstanding achievements in academia, the arts, business, government, and public affairs who have been elected to the Academy this year. Election to the Academy recognizes extraordinary people who help solve the world's most urgent challenges, create meaning through art, and contribute to the common good from every field, discipline, and profession. University Record article.

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Upcoming Thesis Defenses

Monica Lewis, The Closed Support Problem Over a Complete Intersection Ring, 5/26/21, 4:00 PM, [Zoom link](#)

Farrah Yhee, Counterexamples in the Theory of Ulrich Module 5/28/21, 12:30 PM, [Zoom link](#)

Devlin Mallory, Singularities of Birational Geometry via Arcs and Differential Operators, 6/1/2021, 11:00 AM, [Zoom link](#)

Eamon Quinlan-Gallego, Bernstein-Sato Theory In Positive Characteristic, Date: 6/2/21, 10:00 AM, [Zoom link](#)

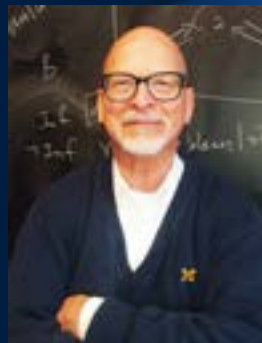**Mitul Islam**, Rank One Phenomena in Convex Projective Geometry, 6/8/21, 12:00 PM, [Zoom link](#)

Angus Chung, 6/10/21 10:00 AM

Jacob Haley, Some Results on Tori in p-adic Groups, 7/5/21, 11:00 AM, [Zoom link](#)

Fanchen He, 7/15/21, 10:00 AM

Charlie Doering
1956-2021

We mourn the passing of our colleague, [Charlie Doering](#). Charlie joined the department in 1996, and was an integral part of establishing the Applied and Interdisciplinary Mathematics program. He will be greatly missed at the university.

Postdoc Awards

Each year the department presents awards to postdocs for teaching/mentoring/research excellence. The awards were presented at the final department meeting on April 22. Congratulations to all of you!

The Frederick Gehring Award: [Eva Elduque](#)

The Juha Heinonen Award: [Serin Hong](#)

The Allen Shields Award: [Giuseppe Martone](#)

The B. Alan Taylor Award: [Janet Page](#)

2021 Graduate Student Fellowships

G. Cleaves Byers -Collegiate Math Education Award
Robert Cochrane

Luther Claborn Mathematics Endowment
Hyung Kyu Jun

Arthur H. Copeland Memorial Fellowship
Carsten Petersen

The Wirt and Mary Cornwell Prize
Konstantinos Tsouvalas

Cameron & Jon Courtney Scholarship Patrick Kelley
E.S. & A.C. Everett Memorial Fund
Binglin Song

A.V. Flint Memorial Scholarship Fund
Christina Athanasouli

Donald J. Lewis Fellowship
Yifeng Huang

Juha Heinonen Memorial Graduate Student Fellowship
Yonatan Shelah

Marjorie Lee Browne Scholars
Emilee Cardin
Cyril Cordor
Joanne Dong
Ram Ekstrom
Orlando Ferrer
Oscar Gonzalez
Annaliese Keiser
Jose Esparza Lozano

Mathematics Department Summer Research Grants
Yunze Lu
Kannappan Sampath

Edwin Wilkinson Miller Award
Nicholas Wawrykow

National Science Foundation Fellow
Shelby Cox
Mark Greenfield
Alana Huszar
Daniel Maes

National Science Foundation Fellow *(cont.)*
Devlin Mallory
Carsten Sprunger
Farrah Yhee
Teresa Yu

Carroll V. Newsom Award
Joanne Dong

Peter Smereka Thesis Award
William Clark
Alexander Zaitzeff
Nathan Vaughn *(honorable mention)*

Prasad Family Fund
Shubhodip Mondal

President's Challenge
Jack Wakefield

Rackham International Student Fellowship
Jiajia Guo
Saem Han

Rackham One-Term Dissertation Fellows
Can Chen
Alapan Mukhopadhyay
Khoa Nguyen
Yonatan Shelah
Sanal Shivaprasad

Rackham Outstanding GSI Award
Christina Athanasouli

Rackham Predoctoral Fellowship Peter Dillery
Aleksander Horawa
Christiana Mavroyiakoumou
Sanal Shivaprasad

Rackham Science Award (RSA)
Emilee Cardin
Joanne Dong
Annaliese Keiser

Gabrielle & Sophie Rainich Fellowship
Jiayu (Jason) Liang

Joel Smoller Graduate Fellowship Fund
Yueqiao Wu

Allen L. Shields Fellowship
Karen Butt

Sumner B. Myers Memorial Prize
Emanuel Reinecke

Department of Mathematics Outstanding Teaching Award
Aleksander (Alex) Horawa

The Karen Rhea Excellence in Teaching Award
Yiwang Chen

The Mort Brown Excellence in Teaching Award
Nawaz Sultani

The Pat Shure Excellence in Teaching Award
Elizabeth (Lizbee) Collins-Woodfin

Golden Stapler
Yiwang Chen

Usha Sharma Bhalla Fund
Jingjie Zhang

Mathematics Department Graduate Fellowship
Jorge Arce Garro
Jineon Baek
Reebhu Bhattacharyya
Bernardo Bianco Prado
Jack Carlisle
Brian Chen
Schinella D'Souza
Bradley Dirks
Xiaoyu Dong
Havi Ellers
Zenan Fu
Karthik Ganapathy
Alexander Ginsberg
James Hotchkiss
Gary Hu
Guanjie Huang
Jia Zhi Jiang
Sameer Kailasa
Alex Kapiamba
Sayantan Khan
Han Le
Jonghyun Lee
Kexin Li

Mathematics Department Graduate Fellowship *(cont.)*
Yutong Li
Yiyang Liu
Christiana Mavroyiakoumou
Caleb Mayer
Andrew McMillan
Preetham Mouyebe
Michael Mueller
Malavika Mukundan
Ilia Nekrasov
April Nellis
Scott Neville
Swaraj Sridhar Pande
Som Phene
Benjamin Riley
Jenia Rousseva
Yuping Ruan
Lukas Scheiwiller
Amanda Schwartz
Ekaterina Shchetka
Kashvi Srivastava
Daniel Stoll
Chuhao Sun
Ik Tan
Gleb Terentiuk
Ursula Trigos-Raczkowski
Tejaswi Tripathi
Katja Vassilev
Caitlin Waddle
Boyang Wu
Berkan Yilmaz
Ethan Zell
Tianchen Zhao
Qiusheng Zhao

2021 Undergraduate Awards

Alumni Scholarship
Faye Jackson

Arthur Herbert Copeland, Sr. Memorial Award
Hao Chen
Yubing Cui
Joshua Messing
Teo Mikelthun
Jonah Nan
Ka Yu Wong

Evelyn O. Bychinsky Award
Henry Fleischmann
Sophie Kriz
Rodrigo Medina Cespedes
Yingzi Yang

Frank Raymond Award in Geometry & Topology
John Haviland

**George Piranian Excellence in
Mathematical Writing Award**
Sophie Kriz

Irving Wolfson Award
Corrine Tessin

Jack McLaughlin Award in Algebra
Yingzi Yang

Alice Webber Glover Award
Elicia Rong

Leon P. Zukowski Award
Maiya Yu

Lois Zook Levy Award
Seth Greenfield

Margaret S. Huntington Prize in Actuarial Research
Evalicia Chavez
Po-Tsun Chen
Emma Dimilia
Matthew Dykstra
Shreya Gummadapu
Zhaoyuan Jiang
Yerine Kwon
Kyle Langworthy
Jusn Liu
Madison Morelli
Maximillian Roman
Amanda Snyder
Thomas Striblen

Marilyn and Stewart Gloyer Award
Alex Cepo
Joseph Meston

Michigan Mathematics Merit Scholar Award
Junshan Chen

Michigan Mathematics Merit Scholar Award *(cont.)*
Ethan Cohen
Zekun Jia
Omar Siddiqui
Kenneth Wang
Wenyi Wang

Natarajan Family Award
Ananya Sridharan

Otto C. Richter Memorial Prize
Ishpreet Kohli
Ramana Ramanathan
Tianhe Zhang

Outstanding Achievement in Mathematics Award
Yuxuan Chen
Jacob Kowalcyzk
Thomas Larsen
Zhihan Liu
Minhao Sun
James Walrad
Zixuan Wang
Haozhi Xu
Ziyi Zhang
Ziyuan Zhao
Zhang Zijian

Outstanding Graduating Senior Award
Fangu Chen
Noah Luntzlara
Alexander Vidinas
Alex Wang
Wanqiao Xu

Sumner B. Myers Award in Analysis
Joshua Messing

Undergraduate Mathematics Competition
Matthew Wang (1st place)
Ramchandra Apte (2nd place tie)
Omer Siddiqui (2nd place tie)

Wilfred Kaplan Award in Applied Mathematics
Rodrigo Medina Cespedes

William LeVeque Award in Number Theory
Jishi Sun

Wirt & Mary Cornwell Prize
Fangu Chen

David G. Hartman Actuarial Scholarship
Raina Zwolinski

Marc Altschull Actuarial Award
Vincent Lee

CAS Case Study Competition - 1st Place
Andy Lee
Vincent Lee

CAS Case Study Competition - 2nd Place
Jacqueline Dimonte
Eric Huang

CAS Case Study Competition - 3rd Place
Joshua Gordon
Arman Vaswani

CAS Case Study Competition - Best Name
Olivia Chung
Belle Youngs