Department of Mathematical Sciences
Awards and Recognition
Academic Year
2019-2020
<table>
<thead>
<tr>
<th>Scholarship/Memorial Endowment</th>
<th>Recipients</th>
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<tr>
<td>Natalie Feld Scholarship</td>
<td>Allison Hallai</td>
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<td>Jeanne Gulden Scholarship</td>
<td>Danny Mylott</td>
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<tr>
<td>Harry S. Kieval Scholarship</td>
<td>Yuchuan Feng</td>
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<tr>
<td>Jonathan Harley</td>
<td>Andrew Heyse</td>
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<tr>
<td>Harris Hancock Undergraduate Scholarship</td>
<td>Hannah Hughes</td>
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<td>Nicholas Behrendt</td>
<td>Ayumi Mutoh</td>
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<tr>
<td>Mounira Moussa</td>
<td>Zhifei Yan</td>
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<tr>
<td>Charles N. Moore Memorial Fund in Mathematics</td>
<td>Yanan Zhang</td>
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<tr>
<td>Maита F. Levine Memorial Endowment</td>
<td>Alyssa Burritt</td>
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<tr>
<td>Shirley Leung</td>
<td>Charles N. Moore Memorial Fund in Mathematics</td>
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<tr>
<td>Jack Welch</td>
<td>Allison Hallai</td>
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2019-2020 Undergraduate Awards cont.

ACTUARIAL PROGRAM AWARDS
ANDREW HEYSE
CHRISTOPHER KOLOSEIKE
JASMINE NGUYEN
MITCHELL WASOWSKI

CHOOSE OHIO FIRST/LSAMP SCHOLAR
JONATHAN HARLEY

CHOOSE OHIO FIRST/ODHE SCHOLARS
ALICE BREW
CHEYENNE CLIFT
ELI SAMUEL GOOD
ALLISON HALLAI
ANDREW HEYSE
MITCHELL WASOWSKI

PHI BETA KAPPA AWARD
KORASH ASSANI
ALYSSA BURRITT
JOHN FAISANT
EMILY THIE

STEM SUMMER UNDERGRADUATE RESEARCH FELLOWSHIP
YUCHUAN FENG

STEM UNDERGRADUATE Award
KHOA HUYNH LE ANH
2019-2020 Graduate Awards

MAITA LEVINE AWARD FOR OUTSTANDING GRADUATE ASSISTANT
BRANDON SWEETING

MAITA LEVINE AWARD FOR OUTSTANDING BEGINNING DOCTORAL STUDENTS
HYOGO SHIBAHARA

MAITA LEVINE AWARD FOR OUTSTANDING FINISHING MASTER’S STUDENTS
CHRISTIAN BRACALE
YE XIONG

HENRY LAWS FELLOWSHIP (2020-2021)
AYAT ALMOMANI

UNIVERSITY RESEARCH COUNCIL SUMMER FELLOWSHIP (2020)
AYESHA EKANAYAKA

MAITA LEVINE SUMMER RESEARCH FELLOWSHIP (2020)
RUI HUANG

RESEARCH PUBLICATION AWARDS (2019-2020)
JOSHUA DEATON
ZUOPENG FU
MIAOQI LI
WEIJI SU
WEIZHE SU
ZHENG ZHANG
2019-2020 Graduate Degrees

MASTERS OF SCIENCE IN
MATHEMATICS

PULUKKUTTI ARACHCHIGE
DINESHA DILRUKSHI, 2020 SPRING
MICHAEL GRABEL, 2019 SUMMER
XIAOLIN YANG, 2020 SPRING

MASTERS OF SCIENCE IN STATISTICS

AMANI ALMARRI, 2020 SPRING
CHRISTIAN BRACALE, 2020 SPRING
SAMANTHA GREEN, 2019 FALL
HYUN JU JEA, 2019 SUMMER
RICHARD LUCAS, 2019 FALL
KE QIN, 2019 FALL
YE XIONG, 2020 SPRING

PH.D STUDENTS

REBEKAH JONES, 2019 SUMMER
MIAOQI LI, 2020 SPRING
ALVARO ORTIZ LUGO, 2019 SUMMER
ABIGAIL RICHARD, 2019 SUMMER
HUAIYU ZANG, 2020 SPRING
NA ZHANG, 2019 SUMMER
The Department of Mathematical Sciences would like to recognize three exceptional Faculty members who are retiring this summer:

Victor Kaftal - Professor

Don French - Professor

Gary Haefner - AAUP Represented Adjunct

These three men have dedicated countless years to the betterment of our Department and to academia at large. They are a diverse group of educators & researchers whose talents have been invaluable to countless students and colleagues. We humbly thank them for their service and wish them the very best in retirement.
Dr. Victor Kaftal
Professor
Areas of Expertise: Algebra, Analysis
Years of Service: 41

Victor joined our Department in 1979 as a Visiting Assistant Professor. Over the course of his four-decade career at the University of Cincinnati, he has served at the Department, College, and University levels in various capacities. With research focused primarily in Operator Theory and Operator Algebras, Victor has contributed to dozens of publications and lectured all over the world. He has served as a visiting scholar at Texas A&M, Louisiana University, and University of Pennsylvania.
Dr. Don French

Professor

Areas of Expertise: Applied Math, Computational Modeling

Years of Service: 30

Coming to Cincinnati from Carnegie Mellon University, Don has been with the Department since 1990. With a recent primary research focus in math modeling for Cellular Physiology and previous work in error analysis for finite element methods for partial differential equations, his work spans dozens of publications. Don has served in many positions over the course of his career, including multiple stints as Graduate Program Director and multiple positions with Taft Research Center. He has been a consultant with the Wright Patterson Air Force Base since 2010.
Mr. Gary Haefner
AAUP-Represented Adjunct
Areas of Expertise: Statistics, Financial Analysis
Years of Service: 15

Gary joined our Department in 2005 as an Adjunct Instructor after his first retirement. Before coming to the University of Cincinnati, he spent more than 25 years of working in industry, first with Cincinnati Bell then with Convergys. Utilizing his extensive knowledge of finance and cost analysis, Gary has primarily taught Statistics courses during his time as an instructor. Gary has served the department as a Course Coordinator and has taught countless thousands of students during his tenure.
A Message from
Dr. Michael Goldberg-
Incoming Department Head

To all members of the Mathematical Sciences Department,

I am delighted to see so many graduates and so many accomplishments of our students and faculty all together in these pages -- and if it was an ordinary year we would be all together in one place to celebrate. It’s easy to lose sight of those long term goals in middle of the daily grind of work and classes. Now that the academic year is over, we can take a step back and see what we’ve been working towards all this time.

The last few months have brought a number of unexpected obstacles. We’ve all been forced to come up with creative ideas for how to communicate with each other, how to guide students from a distance as they discover and use new mathematical tools, even how to take tests as a class. I want to thank our faculty with prior experience in distance education for being so generous with their knowledge. We are a more resourceful and resilient department now than when classes started in January.

That’s not to say that everything went smoothly without interruption. Our department is well known for its research activity and has important connections all around the globe. Some conferences where we would have presented new results were cancelled. Some long-planned meetings with collaborators to develop new projects have been postponed. These are temporary disruptions that will not affect our research leadership in the long run.

I’d like to thank a number of department officers who helped us reach where we are today and who are stepping out of those roles at the end of the academic year. Mihaela Poplicher has served as the Undergraduate Program Director for many years. Steve Pelikan has directed the Master of Arts in Teaching program that brings Cincinnati-area teachers into our department each summer. They are leaving their programs in the capable hands of Crystal Clough and Ryan Therkelsen, respectively. Finally I want to thank Shuang Zhang for his tireless work as Department Head over the past ten years, maintaining a sense of stability as quarters turned to semesters, as we moved from building to building across campus, and up to the present day as we head into fresh uncharted territory.

-Michael
A Message from
Dr. Shuang Zhang-
Outgoing Department Head

Faculty, Staff, and Students,

During the two five-year terms as the Head, I have tried extremely hard to establish this Department to a higher-caliber unit of UC and among peer Math Departments worldwide. I am glad to see that faculty and staffs’ collaborative and united teamwork has made this Department more reputable in terms of both research and teaching.

For the missions of research and teaching, I have always viewed the Math Department as a huge family with faculty hired for different purposes; each member shall contribute his/her maximum toward these missions. All family members should hold high professional standards, unite with other family members for our common goals, and compromise when different opinions are conflicting. After these years, I am so glad that faculty smoothly and happily work together in this large family, although we came from over 15 countries of origins with quite diverse backgrounds of cultures, education, and religions.

While so many senior colleagues have retired in these years, our overall performance has made a convincing case to the A&S leaders and the UC Admin. We have been supported strongly for our research mission by hiring approximately the same number of junior research faculty as retirees. Now our research team has collectively established a remarkable record with massive publications, enormous number of external presentations, and yearly external grants of $1-2 million increased from $200-300K in the past.

Simultaneously, we have established the first time ever an extremely strong teaching team; namely, our team of Educator faculty has increased from one two to the current twenty. This strong team has exemplified how math education should be restructured; our teaching innovation and reform from multiple angles has fit the life/learning styles of students in this new high-tech era. Proudly to say, our achievement in teaching has been outstanding among our peers Departments.

Looking forward, we are facing unprecedented challenges due to the COVID invasion and the severe financial consequences. I am confident that this strong team of all faculty and staffs, united around our new Head, Prof. Michael Goldberg, will overcome all difficulties and make the Department much stronger. Please keep in mind as a whole family, only united force will conquer and win!

Shuang Zhang
Head and Professor
In appreciation of 10 years of extraordinary service as Department Head, we wish to give special thanks & recognition to Dr. Shuang Zhang.