Dear Friends of Mathematics & Statistics at UVM I hope this note finds you well. It has been another exciting

Math & Stats Fall 2023 Newsletter

solving sessions for students in those courses. We think this supplemental instruction will significantly help our students, especially those who are struggling. This 1234 (Calculus I) and will gradually expand to more courses. A third thing we did is to we added over 70 new names of our graduates (PhD, MS and BS/BA) and their current jobs (to a total about 100 names now). Special thanks go to **Professors Emeriti** Richard Foote and Ruth Mickey who provided most of those names! In the past year, the Department hired six faculty members --- Alice Patania (Assistant James Hefferon (Senior Lecture of Mathematics), Jeff Jewell (Lecturer of Mathematics), Abigail Crocker (Associate Professor of Statistics), and Miriam Dash (Lecturer of Statistics). Alice and Abby are old colleagues --- they just switched from

hires will significantly strengthen the research and teaching capabilities of the Department. Meanwhile, Senior Lecturer Karla Karstens retired after 37 years of distinguished service. In the past year, the Department admin, $\pmb{\mathsf{Emily Cummings}},$ moved to CEMS Dean's Office, and we hired a new admin, Gretchen Schissel. The College is currently restructuring all admin services to better meet the College's and its individual departments' needs. This newsletter will share more of our recent successes in teaching, research, and

I hope you enjoy this newsletter on what is happening in the Department, and on the $\ensuremath{\mathsf{Department}}$ successes of our faculty, students, and alumni! Please keep us updated with your own exciting news (you can write to me, jxyang@uvm.edu, or to the Department,

Warm regards, Jianke (Jackie) Yang

Professor and Chair, Department of Mathematics and Statistics



This year, we welcome the following faculty members to the Math/Stat Department:

Professor, Professor) receives this prestigious honor.

Alice received her PhD degree in Applied Mathematics from Politecnico di Torino (Italy) in 2017. She then spent 4 years as an

Mike received his PhD degree in Mathematics from UCLA in 2019. Then he spent 4 years as the Ritt Assistant Professor of

Jim received his Ph.D. degree in mathematics from the University of Connecticut in 1986. He then spent 3 years as a Visiting Assistant Professor at Union College, and 33 years at St. Michael's College as an Assistant, Associate, and Full Professor

Assistant Research Scientist at Indiana University Bloomington and joined UVM as a Research Assistant Professor of Mathematics in 2021. She switched to tenure-track Assistant Professor of Mathematics

> Michael Miller Fismeier Assistant Professor of Mathematics

Alice Patania



James Heffron Senior Lecturer of Mathematics

(including 6 years as its Department Chair). His Linear Algebra textbook is widely used.

Jeffrey Jewell Jeff received his BS (2017) and MS (2019) degrees both from UVM. He then spent a year as a graduate student at Rensselaer Polytechnic Institute and joined UVM as Lecturer of Mathematics

this fall.

Abigail Crocker Associate Professor of Statistics



Social Change and using community-engaged research to address the harms of mass incarceration. She serves as the Director of Research for the National Center on

Lecturer of Statistics

Miki received her BS degree in Political Science from Northwestern University in 1991 and MS degree in Biostatistics from UVM in 2013. She had held various academic and industry positions (such as at Community College of Vermont, Vermont

Technical College, Pharmacia Inc./Pfizer Corporation and so on) before joining UVM as Lecturer of Statistics this fall.



Assistant Professors of Mathematics Puck Rombach and Christelle Vincent were

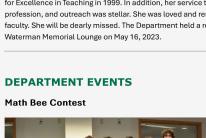


of \$200,000. His project title is: "Tropical Combinatorics of Graphs and Matroids".



Graduate Research Fellowship, which is going to fund him as GRA for 3 years. His project title is "Decoding Parallel Processing in the Brain using the Connectome Eigenfunctions". This NSF $\label{lem:competitive} Graduate\ Fellowship\ is\ prestigious\ and\ competitive.$ Annie Zhang, a MS student supervised by Associate Professor

of Mathematics Christelle Vincent, accepted a job offer from MIT's Lincoln Lab, doing cybersecurity research full time there, starting summer of 2023 (when she graduated from UVM).



On April 25, 2023, 9 students and 7 faculty participated in the Math Bee. The students a landslide victory over the faculty, taking the Golden Pi trophy back. The faculty as Karla, Jianke, Alice, Tony, Taras and Dan Hathaway . Joe did a fabulous

> Phuc Tran, an exchange undergraduate student of math major at UVM in fall 2018 from American University in Bulgaria, is nov pursuing a PhD degree in mathematics at Yale University. He fondly remembers his time at UVM, writing that the semester he spent at

UVM was one of his best college experiences, particularly in mathematics. He took 4 graduate-level math classes here, and said all professors always welcomed him and gave him many problems to think about. In particular, he was very impressed that

ALUMNI NEWS

STAY IN TOUCH Email mathstat@uvm.edu with your latest achievements so we may consider including

Learn more about Math & Stats at UVM!





research appointments to tenure-track appointments, and the other hires are new. These

mathstat@uvm.edu).

AWARDS

Professor Rich Single won the 2023 Kroepsch-Maurice Excellence in Teaching Award. Each year one faculty member in each of the four rank categories (Lecturer/Senior Lecturer/Clinical Instructor, Assistant Professor, Associate

this fall. She is a computational topologist, developing and applying new topological approaches to study complex systems.

Mathematics at Columbia University and joined UVM as Assistant Professor of Mathematics this fall. His research is in

Abby obtained her Ph.D. in Clinical and Translational Sciences from UVM in 2013 and joined our department as Research Assistant Professor of Statistics in 2014. She was promoted to

Research Associate Professor of Statistics in 2022 and switched

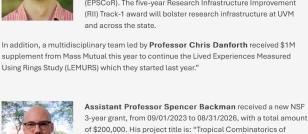
Restorative Justice, which has brought a lot of national attention as well as large amounts Miriam Dash



Senior Lecturer.

promoted to Associate Professor with tenure

Lecturers Nichole Caisse, Dan Hathaway and Laura Marthaler were promoted to



Hunter Rehm, the first PhD student of Associate Professor Puck Rombach, accepted a job offer as Associate Researcher for HX5 at NASA Glenn Research Center in Cleveland when he graduated last May. He will be continuing some of the work he has been doing with NASA during his PhD dissertation. In May, Damin Zhu graduated with a Ph.D. in Mathematical

Sciences, and Statistics track. He is the first Ph.D. student to graduate in the Statistics track in department history. He is currently a digital business analyst with KION in South Carolina.

Tobias Timofeyev, a current PhD student working with Assistant Professor Alice Patania, has just won an NSF

His advisor was Professor Jeff Buzas.

Professor Greg Warrington and his high-school daughter Grace create crossword puzzles worthy of the 'New York Times'. Greg and his daughter have been constructing crosswords together for nearly two years — a "fun challenge," Greg said, that evolved from their evening ritual of solving the *Times* crossword together. In the past September, after 24 rejections, the father and daughter sold their first crossword to the New York Times.



She was the recipient of the prestigious Kroepsch-Maurice Award for Excellence in Teaching in 1999. In addition, her service to the university, the profession, and outreach was stellar. She was loved and respected by both students and faculty. She will be dearly missed. The Department held a retirement party for Karla in

Senior Lecturer Karla Karstens retired in May 2023, after 37 years of distinctive service in our department. Karla received her MS degree in mathematics at UVM in 1987 and was hired as a Lecturer right after. In 2004, she was among the first group of lecturers to be promoted to the newly created position of Senior Lecturer. In her 37 years at UVM, she made very important contributions to the Department's teaching and service mission.

job as the Master of Ceremony. On Nov. 14, 2023, 16 students and 4 faculty did a rematch of Math Bee. The faculty team was Alice, Jianke, Dan Velleman, and Dan Hathaway. This time, the faculty team won, winning the Golden Pi Trophy!

Prof. Richard Foote could present this huge topic (classification of simple groups) in just ne semester. He also had personal talks with Profs. Jeff Dinitz and Richard Foote, who strongly encouraged him to pursue math further.

them in the next newsletter. We want to hear how you're doing!

College of Engineering and Mathematical Scient n, VT 05405-0156

