This academic year began with some trepidation as we returned to campus in-person. Would we really be able to return to in-person teaching and activities during an evolving pandemic? The answer was a resounding yes! Faculty and students have been delighted to return to the classrooms. In-person seminars and conferences are back. We’ve held our beginning of year party, our holiday party and our spring barbecue. Daily teas have returned.

Admittedly, department life is not completely back to the pre-pandemic normal. Grapes are out and packets of gummy bears are in. But each month, more of the energy and dynamism that defines our department is returning. The buzz is coming back to our common room. We’re meeting and reconnecting with our fellow students, colleagues and staff members.

This year we welcomed two new faculty members. Yuchen Liu works in algebraic geometry and its connections to complex geometry and commutative algebra. Gus Schrader works on quantum groups, higher Teichmüller theory and cluster algebras.

We also welcomed our new Graduate Program Assistant Eric West. It has been less than a year but Eric is already like one of the family.

In Fall 2022 we look forward to welcoming four new faculty members! Tsachik Gelander works on Lie groups and topological groups, symmetric spaces and Hadamard manifolds, and general locally compact groups. He uses random subgroups to study properties of general discrete subgroups of Lie groups, and in particular manifolds of infinite volume. After faculty positions at the Hebrew University of Jerusalem and the Weizmann Institute of Science, he will join Northwestern at the rank of Professor.

Reza Gheissari, a Miller Fellow at UC Berkeley, works on probability theory and its applications. He studies interfaces in the Ising model, spin glasses, and applications of probability to high dimensional statistics and data science. He will join us in the Fall as an Assistant Professor.

Sonja Mapes works on combinatorial commutative algebra and connections to algebraic geometry and tropical geometry. She brings with her 8 years of experience as Director of Undergraduate Studies at the University of Notre Dame. She will join us as an Associate Professor of Instruction.

Finally, Gábor Székelyhidi, also coming from Notre Dame, will join us at the rank of Professor. He works on geometric analysis and complex differential geometry. Much of his work is motivated by the question of the existence of canonical metrics, such as extremal or Kahler-Einstein metrics, on projective manifolds.

Here are some highlights from this year’s department news. Aaron Brown won the 2022 New Horizons Prize from the Breakthrough Foundation. Aaron Brown and Xiumin Du were invited to the 2022 International Congress of Mathematicians. Ben Antieau was named a 2022 Fellow of the American Mathematical Society (AMS). Yuchen Liu won a 2022 Alfred P. Sloan Research Fellowship. Bryna Kra was elected President of the AMS, won the Provost’s Exemplary Service Award for her long record of service to the university and department, and was awarded Northwestern’s 2022 Ver Steeg Award for her outstanding research and scholarship. Congratulations all!

Return to campus brought the return of distinguished lectures and conferences. Ian Agol of UC Berkeley gave the Bellow Lectures in March 2022 (originally planned 3 years ago!) and Burt Totaro of UCLA gave the Pinsky Lectures in April. In March 2022, John Francis, Gus Schrader and Boris Tsygan organized the conference Homotopical Methods in Geometry and Physics in honor of Ezra Getzler’s sixtieth birthday. This was part of the 2021-2022 emphasis year of the same name. Many participants were thrilled to attend their first in-person conference since before the pandemic!

We also enjoyed a spring visit by 2020 Nemmers Prize winner Nalini Anantharaman of the University of Strasbourg. She gave us a wonderful colloquium talk on the uncertainty principle and uncertainty inequalities. Nir Avni and Steve Zelditch organized here a conference in her honor, May 30 - June 3, 2022, titled Laplacians on Random Hyperbolic Surfaces and on Random Graphs.
The Causeway Postbaccalaureate Certificate Program is a new initiative at Northwestern which addresses the persistent and tragic under-representation of minorities in mathematics and statistics. Causeway prepares students for doctoral programs in the mathematical sciences through a yearlong, fully funded experience involving coursework, a research project, and close mentoring. Eric Zaslows, Bryna Kra, Santiago Cañez, and myself in our department, and Onnie Rogers in the Department of Psychology are the program organizers.

During Summer 2021 our inaugural cohort of program participants took a special course designed and taught by Eric Zaslows as well as a two-week GRE Boot Camp taught by Dan Cuzzocreo. Simultaneously, they enjoyed individual research experiences supervised by Tuca Auffinger, Nir Avni, Santiago Cañez, Paul Goeress, Gus Schrader, and Jared Wunsch in our department, and Beth Tipton in the Department of Statistics and Data Science. During the regular academic year students enrolled in courses to strengthen curricular foundations for graduate study. Throughout the program the participants attended bi-weekly Causeway Seminars featuring panel discussions and lectures by guest speakers, including Northwestern alumna, Maria Stadnik. In the spirit of “paying it forward,” our program participants mentored students at Evanston Township High School.

We are measuring Causeway’s success by the number of participants who continue with graduate study in the mathematical sciences. With our first cohort we are off to a good start. Ally Nagasawa-Hinc will begin a doctoral program in mathematics at the University of California, Davis, while Edgar Santos-Vega will enter the Ph.D. program in mathematics at Central Michigan University. Nico Cooper will pursue a doctorate in physics at the University of Kentucky, and Vincent Jones will attend the Ph.D. program in mathematics at the University of Kansas. Kayla Perez has been admitted to the masters program in mathematics at Western Washington University, and Angel Carillo was admitted to the doctoral program in mathematics at Washington State University.

Benjamin Hernández deserves special mention as the sole participant in our Statistics track. Benjamin has several late-deadline graduate applications still pending. Causeway participants also received admission offers from institutions such as Purdue University, the University of Illinois at Chicago, the University of Arizona, and the University of Iowa. Congratulations to all of our Causeway participants for confronting an array of challenges this year with grace and poise. We wish them every success!

Causeway has benefited from the contributions of many of our faculty, staff, and graduate students. Dan Cuzzocreo provided academic support and mentorship. Our entire department staff strongly supported the program, but Eric West deserves special mention for his work as our Graduate Program Assistant. Sean McAfee, Shuyi Weng, and Katrina Morgan, together with graduate students Jenny Jones, Alex Karapetyan, Katy Loyd, and Ro Wang also mentored program participants.

As we bid farewell to our inaugural cohorts, we look forward to welcoming four new Causeway students this summer.
NEW HORIZONS PRIZE

Interview with NU Math faculty member, Prof. Aaron Brown, on Winning 2022 New Horizons Prize

NU Mathematics faculty member, Aaron Brown, won the 2022 New Horizons in Mathematics Prize for contributions to the proof of Zimmer’s conjecture. The Breakthrough Prize Foundation awards the New Horizons Prize in Mathematics to promising early-career researchers who have already produced important work.

You won the 2022 New Horizons Prize for your work on the Zimmer Conjecture. Could you describe what the Zimmer Conjecture is?

Zimmer’s conjecture concerns actions of lattices in higher-rank Lie groups on low-dimensional manifolds. The prototype problem involves actions of \( \text{SL}(n, \mathbb{Z}) \), for \( n \) at least 3, acting on a manifold of dimension at most \( n-2 \). The conjecture, which we solved in this case, states that the action is finite, i.e. factors through the action of a finite group. In a sense, this shows there are no “interesting” actions. Less technically, the acting groups contain higher-rank abelian groups (such as \( \mathbb{Z}^{n-1} \) inside \( \text{SL}(n, \mathbb{Z}) \)). Actions of higher-rank abelian groups can be seen as dynamical systems with extra symmetries. It is hard in general to produce dynamical systems with extra symmetries except in algebraic situations. Zimmer’s conjecture, the larger Zimmer program, and lots of related conjectures follow from this expectation by asserting that actions of higher-rank groups should be of an “algebraic origin.”

Regarding your collaboration with Fisher and Hurtado, what led to your breakthrough on the Zimmer conjecture?

I would say it was mostly good timing. I had previously established a key result with Federico Rodriguez Hertz and Zhiren Wang (both at Penn State) concerning existence of invariant measures for actions considered in Zimmer’s conjecture. Sebastian Hurtado was aware of a new tool (strong Property T) that had recently been established for groups we consider. David Fisher visited University of Chicago (where Sebastian and I were postdocs at the time) and the three of us met to see if there was some project we could approach. By the end of the month, we had a complete outline for the case of actions by cocompact lattices. It took much longer to work out the cases of \( \text{SL}(n, \mathbb{Z}) \) and general lattices.

When did you first learn that you were awarded the New Horizons Prize? Were you surprised?

I believe I was told in July. I was quite surprised. I was especially pleased to know it was a joint award shared between myself and Sebastian Hurtado.

What do you think comes next now that the main problem of the Zimmer conjecture has been resolved?

We solved the main formulation of Zimmer’s conjecture but there remain many open questions in the area. For groups that are far from being R-split, we only obtain partial results and while there is some progress towards getting the optimal dimension bounds for these groups, there are still gaps between what is expected and what can be shown. Beyond Zimmer’s conjecture, one would like to understand actions of higher-rank lattices on manifolds of large, or at least “moderate,” dimension. For instance, classifying actions of \( \text{SL}(n, \mathbb{Z}) \) on n-manifolds is wide open. In recently started project with Homin Lee (an incoming Boas postdoc), we hope to understand actions of \( \text{SL}(n, \mathbb{Z}) \) on n-manifolds assuming the action is sufficiently “chaotic” (e.g. has positive entropy).
After two years’ interruption by the pandemic, it is gratifying to see our graduate students resuming their usual gathering in the common room and the boards filled with mathematics. A warm welcome to those graduate students who joined the department during the pandemic but only came to us in person just now! This year eight of our graduate students will leave us after they have completed their theses and start a new life elsewhere: Viktor Burghardt, Cathy Chen, Michael Geis, Pax Kivimae, Fanjun Meng, Abraham Rabinowitz, Ruoyu Wang, and Mengxuan Yang. Thank you all for being part of our community for so many years and we wish you all the best.

Congratulations to Pax Kivimae and Mengxuan Yang, our Best Thesis Award winners this year. Pax works in probability theory -- or more specifically, at the intersection of spin glass theory and random matrix theory-- and wrote his thesis on Gaussian multiplicative chaos and complexity in random matrices under the guidance of Tuca Auffinger. He will join New York University as a Courant Instructor. Mengxuan worked in microlocal analysis and, under the tutelage of Jared Wunsch, fast became an expert on the diffractive effect of Aharonov-Bohm potentials. Mengxuan will be a Morrey Instructor at University of California at Berkeley starting this August.

Catherine Ray won this year’s Gelfand Prize, for Service to the Graduate Community. Catherine has done so much for the graduate students this year and deserves this prize many times over. Catherine organized several graduate student study groups and seminars on various topics in topology and number theory as well as socialization activities (axe-throwing, kayaking excursions, and reviving the Buddy Program for junior students).

Two of our graduate students, Nick Lohr and Ben Zhou received the award for Excellence as a Graduate Teaching Assistant this year.

Thanks to the members of the Graduate Committee for Recruitment under the leadership of Professor Ezra Getzler, 15 new graduate students will join us this September: Pablo Bustillo Vasquez (ENS Paris), Max Chao-Haft (Harvey Mudd College), Xiangtuo Chen (Peking University), Robert Preston Cranford (MIT, NSF Graduate Research Fellowship winner), Ryan Chatterjee (University of Texas, Austin), Colin Fan (Rutgers University), Larry Gu (USC), Rajiv Kappa (UCLA), Arka Karmakar (Chennai Math Institute), Corey Lunsford (UC Berkeley), Amadeus Maldonado (Universidade de Brasilia and IMPA), Jiya Tang (Peking University), Daniel Townsend (University of Cambridge), Adithya Upadhya (Indian Institute of Science Bangalore), and Guoran Ye (Notre Dame). The Committee worked diligently to choose these outstanding students from among more than 350 applicants. Our new international students hail from Belgium, Brazil, China, Hong Kong, India, and United Kingdom.
After a year of remote learning, the return to in-person instruction this year was a great success! Faculty and students alike had to adjust to new expectations and constraints, and helped make this a rewarding year for all. This year’s graduating class is expected to include 57 majors and 11 minors, a few of which warrant special mention.

Three of our students wrote senior theses this year. Benjamin Major wrote about *The Distribution and Equidistribution of Prime Numbers: An Ergodic Theory Approach*, Alain Kangabire wrote about the *Laplace Operator on a Metric Graph*, and Gunnar Anderson wrote about *The Representation Theory of The Symmetric and Alternating Groups*. Benjamin and Alain were co-recipients of this year’s Robert R. Welland Prize for Outstanding Achievement in Mathematics by a Graduating Senior, and will each begin PhD programs in mathematics this fall: Benjamin will attend UCLA, and Alain will attend MIT. Special recognition should also be given to Benjamin Major, Andrew Hinchberger, and Kirsten Kash (junior) for their service as Undergraduate Teaching Assistants over the years.

The Northwestern Emerging Scholars Program had another successful year, due in large part to the work of Sofia Li and Jun Sung as student mentors. Special thanks also to faculty mentors Christian Geske and Shuyi Weng, and graduate student Alex Karapetyan for helping to make this program run smoothly. The Northwestern Undergraduate Math Society was also very active this year, hosting numerous great events throughout the year. Thanks to president Daniel Luo for his drive and organizational skills in making it all happen. One new event that was well-received was a panel discussion for students looking to learn more about graduate school and academic career options in mathematics. Thanks to Director of MENU Aaron Brown for helping to organize this with Daniel.

On the faculty side, Aaron Greicius won a Weinberg College of Arts and Sciences Alumni Teaching Award for his excellent work in recent years. He continues working on Open Educational Resources in linear algebra and calculus. Ruoyu Wang won a Weinberg College of Arts and Sciences Outstanding Graduate Student Teacher Award based on his superb work in our department. Aaron Greicius, Maria Nastasescu, Christian Geske, and Shuyi Weng were awarded a grant from the Mathematical Association of America’s Tensor SUMMA program to continue funding the Northwestern Emerging Scholars Program and look forward to welcoming a new group of students next year.

The undergraduate committee was hard at work this year evaluating our current mathematics major requirements and developing a proposal for an updated set of requirements. Next year the committee will focus on submitting these requirements for formal College approval and on implementation. The goal is to have them in place for Fall 2023.

As Director of Undergraduate Studies, I have the pleasure of seeing first-hand the exceptional work done by our faculty and students. Our undergraduate program remains healthy and strong, and I continue to expect great things in the year to come. Thanks to all who helped make this year a success, including the donors who make many of our events possible.
On Nov. 3rd, 2021 the Mathematics Dept hosted a Postdoc Day, organized by NU Mathematics faculty member Yotam Hendel. This event was a sequence of several short talks-- accessible to a general audience-- given by new post docs in the department. A great opportunity to learn about the mathematics of our new department members, the talks were followed by a reception in the Lunt Common Room.

Ben Antieau Named 2022 Fellow of the American Mathematical Society

NU Mathematics faculty member, Ben Antieau, was named a 2022 Fellow of the American Mathematical Society. The Fellows of the American Mathematical Society Program recognizes members who have made outstanding contributions to the creation, exposition, and utilization of mathematics. Prof. Antieau was named a 2022 AMS Fellow for his contributions to K-theory, algebraic geometry, and homotopy theory.

Xiumin Du and Aaron Brown Invited to Speak at the 2022 International Congress of Mathematicians

NU Math faculty members, Xiumin Du and Aaron Brown, received prestigious invitations to speak at the 2022 International Congress of Mathematicians.

Xiumin Du will speak in the Analysis Section and Aaron Brown will speak in the Dynamics Section. The International Congress of Mathematicians (ICM) is the largest and most significant conference on pure and applied mathematics as well as one of the world’s oldest scientific congresses.

2022 PostDoc Awards

The 2022 Postdoc Teaching Awards were presented at a reception in Lunt Hall, attended by staff, NU faculty, and graduate students. John Enns, Yotam Hendel and Shu-Yi Weng won the 2022 Awards for Excellence by a Postdoctoral or Visiting Faculty Member.

Bryna Kra Elected AMS President, Wins 2022 Provost's Award, and Receives 2022 Ver Steeg Award

Bryna Kra, Sarah Rebecca Roland Professor of Mathematics at Northwestern University, has been elected President of the American Mathematical Society. After a year of being President Elect, her two-year term will start on 1 February 2023. Prof. Kra has been a Fellow of the American Mathematical Society since 2012.

Prof. Kra was awarded the 2022 Provost’s Award for Exemplary Faculty Service. She is being recognized for her outstanding support and mentorship of young mathematicians as well as her service to both her department and the University. Contributions include expanding the department’s postdoctoral programs, serving on a diverse list of University committees, and establishing mentoring groups within the department as well as across the University.

Prof. Bryna Kra also received the 2022 Dorothy Ann and Clarence L. Ver Steeg Distinguished Research Fellowship Award. The Ver Steeg Award was established at Northwestern in 2005 to support the research of a tenured Northwestern faculty member whose research and scholarship are so outstanding as to enhance the reputation of Northwestern, nationally and internationally.

Aaron Greicius and Ruoyu Wang Awarded 2022 Weinberg Teaching Awards

NU Mathematics faculty member and Director of Calculus, Aaron Greicius, has been awarded the 2022 Arts and Sciences Alumni Teaching Award.

Ruoyu Wang was awarded the 2022 Weinberg Outstanding Graduate Student Teaching Award.

Each year, the Weinberg College of Arts and Sciences recognizes members of the College's tenure-line and teaching track faculty for excellence in teaching. Weinberg College in addition recognizes the contributions of outstanding graduate student teachers in the instruction of the its undergraduates.

Yuchen Liu Wins 2022 Sloan Fellowship

NU Mathematics faculty member, Yuchen Liu, has won a 2022 Sloan Fellowship. The Sloan Research Fellowship Program recognizes and rewards outstanding early-career faculty who have the potential to revolutionize their fields of study.

Professor Liu’s research primarily focuses on algebraic geometry and its interactions with differential geometry and commutative algebra. His goal is to investigate canonical metrics and moduli spaces of higher dimensional varieties from the viewpoint of algebraic stability.
2022 Homotopical Methods in Geometry and Physics

The 2021-2022 Emphasis Year was on Homotopical Methods in Geometry and Physics, organized by NU Math faculty members John Francis, Gus Schrader, and Boris Tsygan. In honor of NU Mathematics faculty member Ezra Getzler’s birthday, the 2022 conference Homotopical Methods in Geometry and Physics took place March 21–25 at Northwestern University. It was preceded by a mini-school on Open-Closed Field Theories that took place March 19–20.

2022 Pinsky Distinguished Lecture Series

The 2022 Distinguished Pinsky Lectures were hosted by NU’s Math Department April 6-8th, with Prof. Burt Totaro of UCLA as the featured speaker. Prof. Totaro’ lectures (“Varieties of General Type with Small Volume”, “The Hilbert Scheme of Points on Affine Space”, and “The Failure of Vanishing Theorems”) were very well attended by faculty, graduate students, and visitors.

2022 Conference: Laplacians on Random Hyperbolic Surfaces and on Random Graphs

Hosted by Northwestern University, this conference was held in coordination with the 2020 Nemmers Prize ceremony for Prof. Nalini Anantharaman, May 30 to June 3, 2022. The co-organizers are NU faculty members Nir Avni and Steve Zelditch.

2022 Bellow Distinguished Lecture Series


2021 Midwest Dynamical Systems Conference

Northwestern University’s Mathematics Department hosted the 2021 Midwest Dynamical Systems Conference Nov. 12-14. Paul Apisa, Jeff Diller, Yan Mary He, Thomas Hille, Steve Hurder, Anh Le, Davi Obata, Wenyu Pan, and Ralf Spatzier were the featured speakers.

On the organizing committee for the 2021 Midwest Dynamical Systems Conference were Aaron Brown (Northwestern), Laura DeMarco (Harvard), Ilya Khayutin (Northwestern), Roland Roeder (IUPUI), and Daniel Thompson (Ohio State). The Midwest Dynamical Systems Conference is one of the most influential, diverse, and longest running conference series in dynamical systems.
A Year in Pictures: NU Math Community

Right to left: Prof. Bryna Kra presenting Alain Kangabire the 2022 Welland Prize at the 2022 UG Awards Presentation

Math Grad students preparing for their kayaking outing

2022 Math Barbecue

Math staff, graduate students, and faculty toasting Prof. Ezra Getzler on his birthday

Math Office Winter Window display, designed by our work study student, Jessica Kanoelani Lee

Families, faculty, and students attending 2022 Math Graduation Reception
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