Northwestern ENGINEERING

As the leaves change and a new academic year unfolds, I am excited to welcome four new faculty members to our department. Their diverse expertise and fresh perspectives will strengthen our community and advance our mission of excellence in research, teaching, and service. This past academic year, we undertook a strategic planning process that led to the

articulation of our overarching vision: data-driven discovery, design, and decision-making. Aligned with this vision, Professor **Dashun Wang** will lead a \$20 million National Science Foundation research initiative aimed at optimizing technology innovation by enhancing the measurement, understanding, and acceleration of scientific progress. Professor Barry **Nelson** was honored with the prestigious 2024 Saul Gass Expository Writing Award for his work in stochastic simulation, along with three acclaimed textbooks, reflecting the highest standards of academic writing and pedagogy. Professor **Noshir Contractor**, newly appointed executive director of the United Kingdom-based Web Science Trust, will play a pivotal role in advancing web science research and education as generative AI reshapes the digital landscape. To support and expand our strategic plan, we have announced two new faculty positions. Our educational programs continue to thrive, empowering students with the tools and expertise to lead in a data-driven world. Since its inception in 2011, our Master of Science

in Machine Learning and Data Science, formerly Master of Science in Analytics, has prepared students to harness the value of complex data and design enterprise Al solutions. We are proud to highlight the achievements of our students and alumni. Alum Yian Yin (PhD '22) was recently recognized in Forbes' 2024 '30 Under 30' list in the science category for his pioneering work on tools to understand technological advancement. In

addition, we celebrated the exceptional careers of Christina Kosmowski (BS '98) and Max

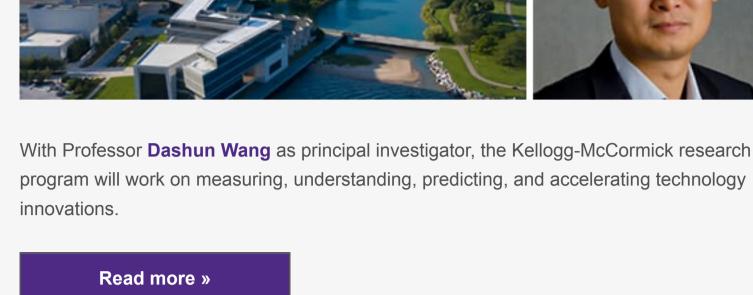
Shen (PhD '00), recipients of the IEMS Distinguished Alumni Award. The ceremony, which featured a keynote address by Northwestern President Michael Schill, was a wonderful opportunity to honor their achievements and reconnect with our alumni community and the IEMS Advisory Board. I encourage you to explore these stories in full and learn more about the remarkable ways our department is shaping the future of industrial engineering and management sciences. Thank you for your continued support, and I look forward to connecting with you throughout the academic year.

Warm regards, Simge Küçükyavuz David A. and Karen Richards Sachs Professor and Chair Industrial Engineering and Management Sciences

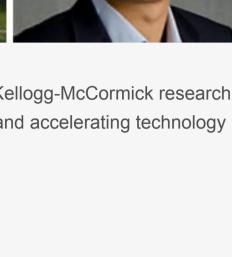
McCormick School of Engineering



Faculty Awarded \$20 Million Grant from National



Activating the Potential of Al



Northwestern Engineering faculty such as Professors Diego Klabjan and Sanjay **Mehrotra** are at the forefront of artificial intelligence education and application. **VIDEO**

Northwestern

Read more »

Yin Reflects on "Profoundly Influential" Time at



News

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Professor Noshir Contractor, an expert in web science, network science, and computational social science, will help lead the UK-based charity's efforts to promote



management sciences, and was a key part of Northwestern's undergraduate chapter of



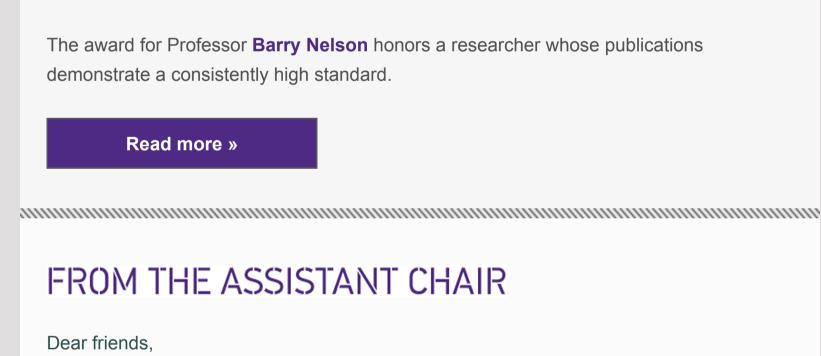
Northwestern IEMS Earns High Rankings from US

Julia Azevedo graduated last spring with a degree in industrial engineering and

The rankings are based on nine factors, led by research activity.



Nelson Wins 2024 Saul Gass Expository Writing



As industrial engineers, we are never content with the status quo; we always seek to

several of our continuing programs to consider what is working well and what needs

optimize everything we do. The last academic year has offered us an opportunity to review

With the help of Jenna Kim ('24), Professor Janice Mejia conducted an assessment of our undergraduate curriculum. Their work combined quantitative data, generated through our

We recently worked with Northwestern Engineering's Department of Computer Science to rebrand and expand our data science minor. Together we now offer the Minor in Machine Learning and Data Science, echoing the name of our professional master's degree. The

computing methodology than on data pipeline development. Of course, students still have

Marita Labedz Poll, our senior academic adviser, continues to lead Mentoring Matters,

faculty advice. This year, Marita is introducing coaching instruction for our peer mentors and offering them the opportunity to use those skills to coach classmates. Students will

targeted questions in support of those goals. Students and peer mentors can then work

Our curriculum will continue to improve as we leverage the energy and expertise of our

Assistant Chair of Industrial Engineering and

meet first with a trained peer mentor to identify their goals for mentoring and develop

together to identify the appropriate faculty and alumni mentor for addressing those

Management Sciences

Jill Wilson

our comprehensive mentoring program allowing students to benefit from alumni, peer, and

new minor now offers a machine learning track that focuses more on statistics and

the option to pursue the original data engineering track.

questions through mentoring conversations.

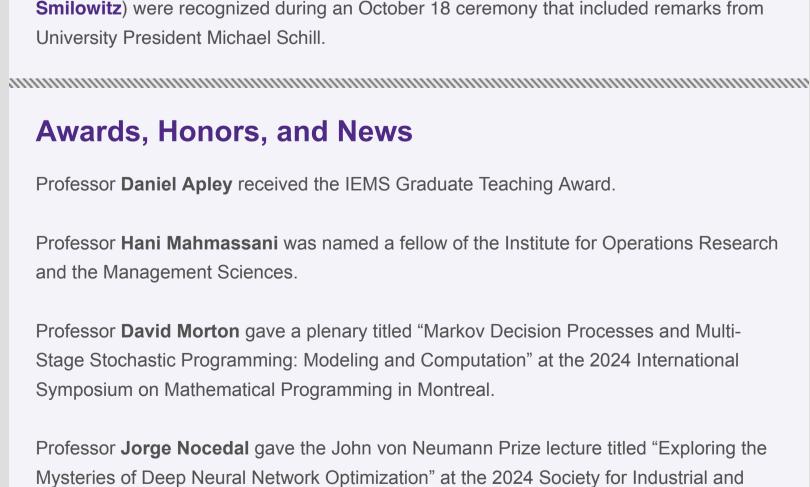
department pretest requirement, with qualitative data obtained through interviews with

undergraduate students and core course instructors. This work highlighted some advantages and drawbacks of our current assessment. More importantly, though, it highlighted methodological areas that should be strengthened to prepare our students well for modern careers. We will be looking into this more closely in the year to come.

new faculty. I look forward to seeing what comes next.

adjustment.

McCormick School of Engineering



Shambhobi Bhattacharya, Megan Chan, and Mark Noll shared the IEMS PhD Student

• NU Logistics team (Alejandra Bustamante, Jessica Lanin, Tom Ratemo, Tyler

Shannon) for their project "Getting Your NU Deliveries: Helping Determine the

Capacity NU Needs to Handle the Ever-Increasing Small Package Deliveries."

Cameron Curtis received the Arthur P. Hurter Award for Outstanding First-Year PhD

Christina Kosmowski, Zuo-Jun (Max) Shen Honored

Kosmowski (left, with Professor William White) and Shen (right, with Professor Karen

with IEMS Distinguished Alumni Award

Two Client Project Challenge teams won the Thompson Prize: James Hardie team (Marco Benavides, Philip Karpinski, Andre Plackis, Max Rothfeder) for their project "Smart Fleet Decisions: Determining the Right Mix Between Dedicated and Commercial Trucks."

Applied Mathematics Annual Meeting in Spokane, Washington.

Leadership Award.

student.

INFORMS Annual Meeting.

students can choose

- IEMS PhD alumni Daniel Duque (MS '17, PhD '20) and Haoxiang Yang (PhD '19) and adviser Professor David Morton's paper "Optimizing Diesel Fuel Supply Chain Operations to Mitigate Power Outages for Hurricane Relief" has been selected as Best Application
- Paper in the 2023 *Institute of Industrial and Systems Engineers Transactions* focus issue. Then-undergraduate student **Jenna Kim** ('24) received the Arthur P. Hurter Award for Outstanding Industrial Engineering and Management Sciences Graduating Senior at the IEMS Senior Ceremony in June.

The 2024 Hurter Outstanding Teaching Assistant Award was shared this year by PhD students Neelam Modi and Eugene Wickett. PhD candidate Aysu Ozel won the Women in OR/MS Colloquium Award at the 2024

IEMS as a visiting professor during the summer. He was hosted by the Center of Optimization and Statistical Learning. Georgia Perakis, John C. Head III Dean (Interim) of the MIT Sloan School of

Dima Drusvyatskiy, professor of mathematics at the University of Washington, joined

IEMS FACTS & FIGURES

faculty received grants

11 Northwestern departments

25

Collaborations with other Research areas from which Federal agencies where

Management, gave the 2024 Wasserstrom Lecture.

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Industrial Engineering and Management Sciences FROM THE CHAIR / Fall 2024 Dear IEMS family and friends,