



## Molecular Engineering & Sciences Institute

Spring 2026



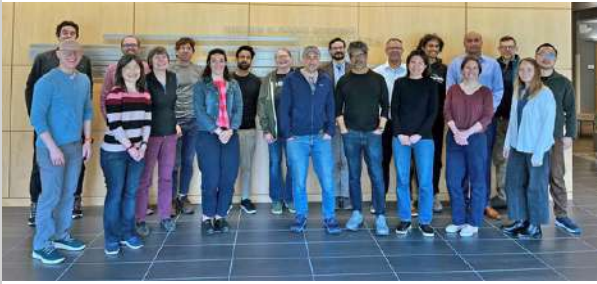
### **Moles student profile: Daniel Mendoza**

Molecular Engineering and Sciences (MoES) student Daniel Mendoza believes in fully embracing new ideas and opportunities — from lab rotations to dance classes to volunteering at the Seattle Aquarium. In this Q&A, he reflected on his experience as a first-year PhD student within the University of Washington community and beyond.

#### **A mentor's support turns curiosity into courage, doubt into discovery.**

MoES faculty member [Ayòkúnlé Olánrewájú's](#) commitment to access connects students to meaningful research opportunities. Learn how his mentorship and philosophy shapes research skills and professional confidence in undergraduates.





## **MoES' Scientific Exchange sparks microbial engineering collaborations**

MoES hosted a Scientific Exchange on Microbial Engineering to catalyze new collaborations, share tools and expertise, and seed pilot projects.

## **How gut bacteria survive viral attack**

Members of the [Kuchina lab](#) discuss new findings on how *Bacteroides fragilis* responds to bacteriophage infection at the single-cell level.



## **Meet Suzie H. Pun, the New Editor-in-Chief of ACS Nano Medicine**

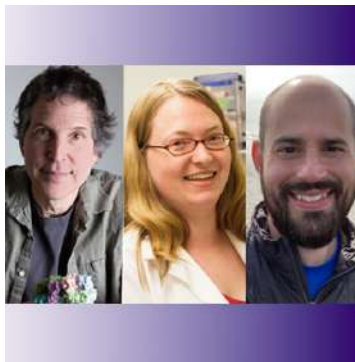
In this interview, Washington Research Foundation Professor of Bioengineering and MoES Director [Suzie Pun](#) shares her vision for the journal, her passion for research, and her thoughts on how young researchers might approach their careers.



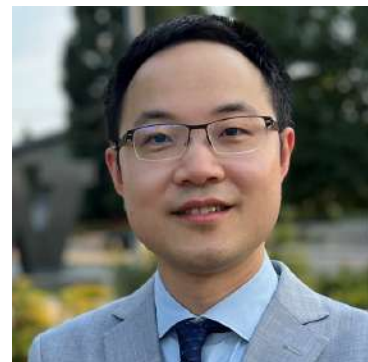
## CONGRATULATIONS



**NIH-funded team Led by Berndt lab aims to supercharge protein sensor engineering**



**Three MoES Faculty Researchers named AAAS Fellows**



**Shijie Cao's PRIME lab receives NSF CAREER Award**

An \$11 million grant from the NIH BRAIN Initiative will enable the [Berndt lab](#), in collaboration with researchers from multiple institutions, to enhance protein sensor technology.

The American Association for the Advancement of Science (AAAS) named MoES faculty members [David Baker](#), [Maitreya Dunham](#) and [David J. Masiello](#) AAAS Fellows.

Led by MoES faculty member [Shijie Cao](#), PRIME ([Pharmaceutical Research in Immune & Microbiome Engineering](#)) lab's research on the gut microbiome and the compounds it produces was recently recognized with a National Science Foundation (NSF) CAREER Award.



### **AIMBE Recognizes Leader in Cytometry and Biomedical Engineering: Daniel T. Chiu**

MoES faculty member [Daniel Chiu](#) was recognized by the American Institute for Medical and Biological Engineering (AIMBE) College of Fellows for developing nanomaterials that have transformed single-molecule detection—an achievement that speaks to his exceptional leadership and scientific impact.



### **David Baker elected to National Academy of Engineering**

Election to the National Academy of Engineering (NAE) is among the highest professional distinctions accorded to an engineer. MoEs faculty member [David Baker](#) was recognized by NAE for developing computational methods to engineer novel proteins and predict protein three-dimensional structures.



### **Matthew Golder named 2026 Sloan Fellow**

MoES faculty member [Matthew Golder](#) was selected as a 2026 Alfred P. Sloan Research Fellow in Chemistry. These fellowships are awarded yearly to early-career researchers in recognition of distinguished performance and a unique potential to make substantial contributions to their field.

**Effect of Vapor Phase Infiltration on Mechanical and Chemical Properties of Polyethersulfone Membranes**

Yuri Choe, Alyssa Hicks, Seancarlos Gonzalez, David S. Bergsman  
*ACS Publications*

**Vapor Phase Infiltration for Membrane Modification**

Seancarlos Gonzalez, Yuri Choe, Prasi Desai, Bezawit A Getachew, David S Bergsman  
*ACS Publications*

**Using Experimental Evolution to Correct Mother-Daughter Separation Defects in Brewing Yeast**

Lauren M Ackermann, Amanda Ro, Barbara Dunn, Ryan Moore, Greg Doss, Joseph O Armstrong, and Maitreya J Dunham  
*microPublication Biology*

**Dynamics of phage-host interactions in *Bacteroides fragilis* resolved by single-cell transcriptomics**

Anika Gupta, Norma Morella, Dmitry Sutormin, Naisi Li, Karl Gaisser, Alexander Robertson, Yaroslav Ispolatov, Georg Seelig, Neelendu Dey & Anna Kuchina  
*Nature Communications*

**Host oxidative stress primes mycobacteria for rapid antibiotic resistance evolution**

Evan Pepper-Tunick, Vivek Srinivas, Fred D. Mast, Song Li, Sagan Russ, Weston Hanson, Amy D. Zamora, Wei-Ju Wu, Matthew Silcocks, Dang Thi Minh Ha, Sarah J. Dunstan, Thuong Nguyen Thuy Thuong, Serdar Turkarslan, John D. Aitchison, Mario L. Arrieta-Ortiz & Nitin S. Baliga  
*Nature Communications*

**Organic electro-optic materials: theory and experiment, devices, and applications [Invited]**

Larry R. Dalton  
*Optical Materials Express*

**An automated sampling workflow for parallel long-term membrane diffusion cell testing**

Claire Benstead, Maria Politi, David S. Bergsman and Lilo D. Pozzo  
*Royal Society of Chemistry*

**Tuesdays 1-2 p.m.**

*Nano Engineering and Sciences (NAN 181)*

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**May 19:** Jason Fontana | Founder & CEO | *Wayfinder Biosciences*

**May 26:** Arjun Khakar | Assistant Professor of Biology | *Cornell University*

**June 2:** Anika Gupta | Molecular Engineering PhD Candidate, Scientific Achievement Award Recipient | *University of Washington/Institute for Systems Biology*

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