



MOLECULAR ENGINEERING & SCIENCES INSTITUTE

Winter 2024

INSTITUTE NEWS



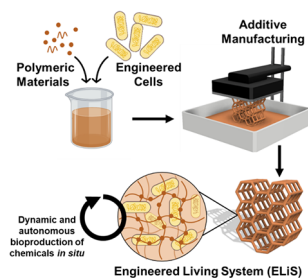
INTRODUCING THE MOLECULAR ENGINEERING DOCTORAL CANDIDATES OF 2023

From designing innovative drug delivery methods to developing sustainable materials, the forthcoming research from these 15 students has the potential to reshape industries and solve critical issues facing society.



Q&A with Suzie H. Pun, new director of MoES

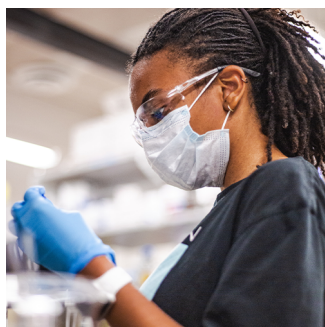
Suzie H. Pun is the Washington Research Professor of Bioengineering, a fellow in the U.S. National Academy of Inventors (NAI) and American Institute of Medical and Biological Engineering (AIMBE), and now, the new director of the Molecular Engineering & Sciences Institute (MoES).



NSF supports development of 3D-printed microorganisms for sustainable construction materials

A team led by UW Chemistry Professor and MoES Director of Education Alshakim Nelson received \$2 million in funding from the National Science Foundation's Emerging Frontiers in Research and Innovation (EFRI) program.

Q & A with a molecular engineering graduate student: Olivia Dotson



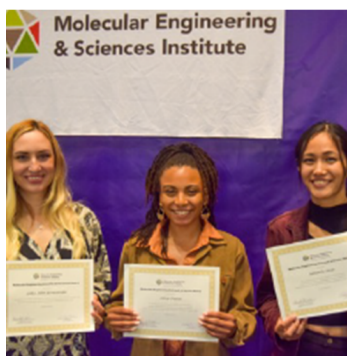
Dotson is a National Science Foundation Graduate Research Fellow focused on regeneration in injured or diseased livers. She also volunteers with [A Vision for Electronic Literacy & Access](#), the [Husky Science Communication Initiative](#), the MoES Graduate Student Association, STEM Pals and the UW chapter of the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers

CONGRATULATIONS



Distinguished Dissertation Award for Cholpisit "Ice" Kiattisewee

Cholpisit "Ice" Kiattisewee was awarded the Distinguished Dissertation Award for his publication, "Expanding the scope of bacterial CRSIPR activation with PAM-Flexible dCas9



Honoring excellent students in molecular engineering

Gokce Altin-Yavuzarslan, Samantha Borje and Olivia Dotson received Molecular Engineering and Science student achievement awards at the MoES's graduation celebration. Altin-



Phuong Nguyen wins entry into Translational Research Training Program

The Institute of Translational Health Sciences translational research training program accepts 20 students each year. The multidisciplinary interaction enables trainees

variants.” His work was chosen by a MoES committee in the Molecular Engineering and Sciences Institute. [MORE](#)

Yavuzarslan received the Scientific Achievement award and Borie and Dotson earned Outreach and Service awards. [MORE](#)

to learn in a truly diverse environment. Phuong's research is in novel barcode and quantum dot labeling of brain extracellular vesicles to inform disease pathology. [MORE](#)

Publications

[Design of stimulus-responsive two-state hinge proteins](#)

Science

[Hematopoietic NLRP3 and AIM2 inflammasomes promote diabetes-accelerated atherosclerosis, but increased necrosis is independent of pyroptosis](#)

Diabetes

[Engineering activatable promoters for scalable and multi-input CRISPRa/i circuits](#)

PNAS

Check out all of the Molecular Analysis Facility capabilities and prices [here](#). Questions or suggestions? Please contact uwmaf@uw.edu

Winter Seminar Series

Tuesdays 1:00 - 2:00 PM in Nano Engineering and Sciences (NAN 181)

1/9 | Aniruddh Vashisth - Mechanical Engineering, *University of Washington*

1/16 | Sarah Burke - Physics & Astronomy, *University of British Columbia*

1/23 | Clemens Grassberger, *Fred Hutchinson Cancer Center*

2/6 | Amy Herr - Bioengineering, *University of California Berkeley*

View the full 2023-2024 speaker schedule [here](#).



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