

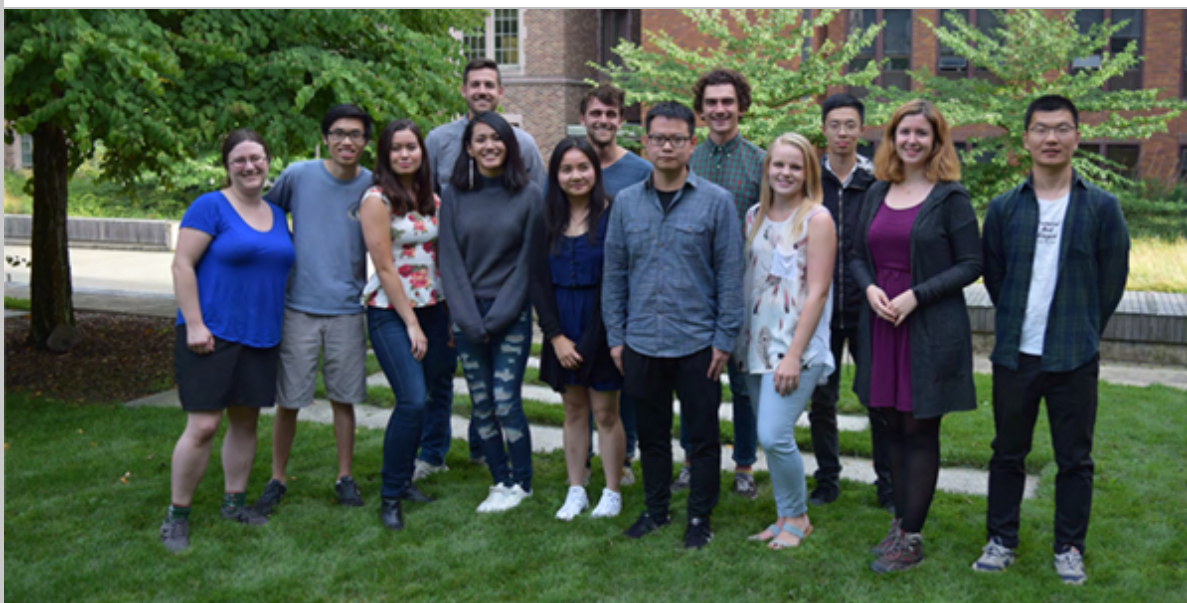


UNIVERSITY of WASHINGTON



MOLECULAR ENGINEERING & SCIENCES INSTITUTE

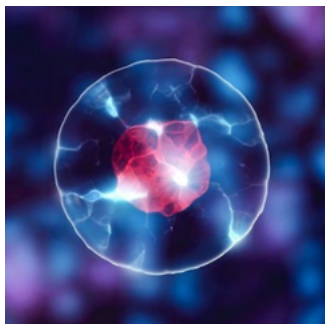
FALL 2019



Introducing the 2019 MoIE PhD Cohort

We are thrilled to welcome our newest cohort of 13 molecular engineering Ph.D. students to UW. [Learn more about their research interests](#) and come meet them in person at our [Welcome Back Social](#) on October 2.

RESEARCH HIGHLIGHTS



A New Clue to How Life Originated

New research from the lab of chemistry professor [Sarah Keller](#) suggests that the first cells on ancient Earth may have emerged because the building blocks of proteins stabilized membranes. Featured in [The Atlantic](#).

[Proceedings of the National Academies of Science](#)



Deep Learning Model Predicts Protein Expression from Leader RNA

The model, built in [Georg Seelig's lab](#), enabled researchers to optimize protein expression by engineering new leader RNA sequences. This work was done in collaboration with [Moderna](#), a biotech company developing mRNA based therapeutics.

[Nature Biotechnology](#)



Logic-Based Delivery of Modified Proteins

Researchers in [Cole Deforest's lab](#) have developed a new method to sequentially and independently trigger the release of bioactive proteins from hydrogel biomaterials using Boolean YES/OR/AND logic.

[Advanced Materials](#)

CONGRATULATIONS



Developing nanoscale therapeutics

Elizabeth Nance receives a [Presidential Early Career Award for Scientists and Engineers](#) for her research on nanotechnology-based treatments for brain diseases and injuries.



Animals and computers learn, can cells?

A research team led by James Carothers receives an NSF award to [develop 'smart' synthetic cell systems](#).



Advancing Energy Storage

Corrie Cobb receives a [2019 Young Faculty Award](#) from the U.S. Defense Advanced Research Projects Agency to advance her research on new battery electrode architectures and packaging integration.

FALL SEMINAR SERIES

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

10/01 | Maria Huffman - Director, *Washington Nanofabrication Facility, UW*

10/03 | MoIES Biomanufacturing Seminar

Euan Ramsey - *Chief Commercial Officer & Co-Founder, Precision Nanosystems*

10/15 | Matthew Tirrell - *Dean, Pritzker School of Molecular Engineering, University of Chicago*

10/22 | Mo Khalil - *Associate Professor, Biomedical Engineering, Boston University*

10/29 | Sidney Cohen - *Staff Scientist, Weizmann Institute of Science*

11/05 | Angelica Gonzalez - *Associate Professor, Biomedical Engineering, Yale University*

11/12 | Evan Scott - *Assistant Professor, Biomedical Engineering, Northwestern University*

11/19 | Distinguished Molecular Engineering Seminar

Mano Manoharan - *Senior Vice President of Drug Delivery, Alnylam Pharmaceuticals*

11/26 | Tina Ng - *Associate Professor, Electrical and Computer Engineering, UCSD*

12/03 | Lacramioara Bintu - *Assistant Professor, Bioengineering, Stanford University*

[SEMINAR SCHEDULE](#)



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