



UNIVERSITY of WASHINGTON



## MOLECULAR ENGINEERING & SCIENCES INSTITUTE Quarterly Newsletter - Summer 2019

### Institute News



#### MoIES Faculty recognized for leadership in research and education

**Christine Luscombe**, MoIES Education Director and Professor of Materials Science & Engineering, received the [\*2019 College of Engineering Faculty Award in Research\*](#). MoIES faculty members **Elizabeth Nance**, Assistant Professor of Chemical Engineering and **Arka Majumdar**, Assistant Professor in Electrical & Computer Engineering and Physics, received *Junior Faculty Awards* in recognition of their leadership in research and education. Congratulations!



## First MoE Ph.D. student graduates

Hao Shen joined our [molecular engineering Ph.D. program](#) in its first year, 2014. Hao studied protein design in biochemistry professor [David Baker's lab](#) and successfully defended his thesis, "De novo design of self-assembling helical protein filaments," last month. [Read our profile celebrating Dr. Shen!](#)

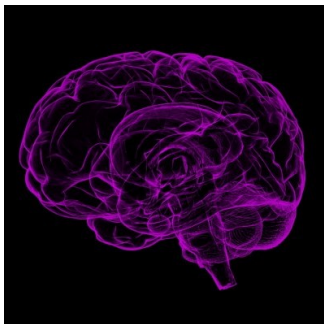


## Research Highlights



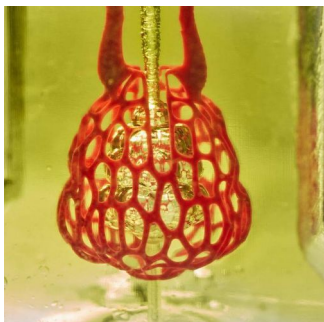
### MoIES Director Pat Stayton developing targeted 'radical cure' for malaria

A research team led by bioengineering Professor [Pat Stayton](#) received a grant from the Bill & Melinda Gates Foundation to develop a new therapeutic for the radical cure (prevention of relapse) of malaria. [Learn how the team is using molecular engineering to tackle a major global health challenge.](#)



### Researchers show synthetic peptide can inhibit toxicity, aggregation of protein in Alzheimer's

Dylan Shea, a [MoE Ph.D. student](#) in the lab of MoIES faculty member [Valerie Daggett](#), has developed synthetic peptides that target and inhibit the small, toxic protein aggregates thought to trigger Alzheimer's disease. A [new paper](#) describing their findings was published in *PNAS*. [Read more in Geekwire.](#)



### Major breakthrough in 3D organ printing detailed in Science

A research team led by MoIES faculty member [Kelly Stevens](#), has created exquisitely entangled vascular networks that mimic the body's natural passageways for blood, air, lymph and other vital fluids. The team [published its findings](#) May 3 in *Science*. See related stories in [Forbes](#) and [Newsweek](#).



The [MAF](#) is holding a 2.5 day **Biomedical Characterization Workshop** in partnership with [NESAC/BIO](#). Attendees will learn the nuts and bolts of surface characterization.

July 29-31, 2019 | University of Washington Campus

[DETAILS & REGISTRATION](#) - Early registration ends July 19

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