



BME Department Highlights



Joyce Wong Named President-Elect of AIMBE

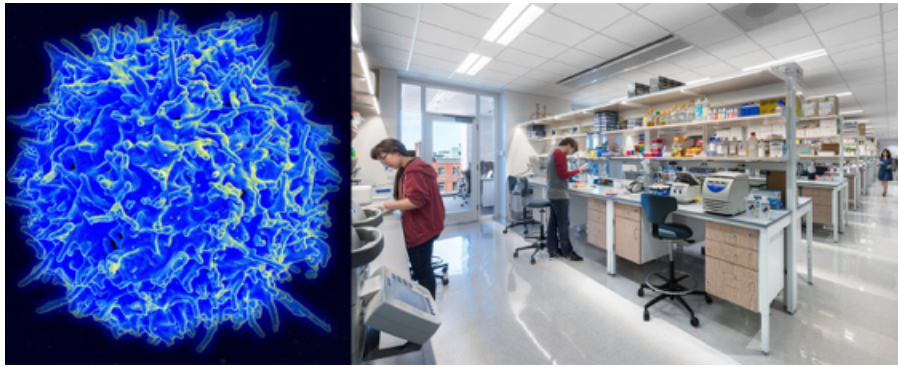
This honor recognizes her as a world-class leader and visionary for an organization that boasts a strong track record of advocacy.

Professor Joyce Wong (BME, MSE), has been named president-elect of the American Institute for Medical and Biological Engineering ([AIMBE](#)), one of the foremost biomedical engineering societies in the country. Her twin goals are to leverage the power of biomedical engineering to address underfunded areas of research, and to open up the biomedical field itself to a range of perspectives and ideas. [Read More](#)



One Million BU COVID Tests - and Counting

What started with a pilot test program [back in summer 2020](#), when no positive results for the coronavirus were detected among 287 samples, reached a huge milestone over this year, with over 1 million tests performed. The success of the program was critical for why the University was able to maintain on-campus learning and activity throughout the pandemic. [Read More](#)



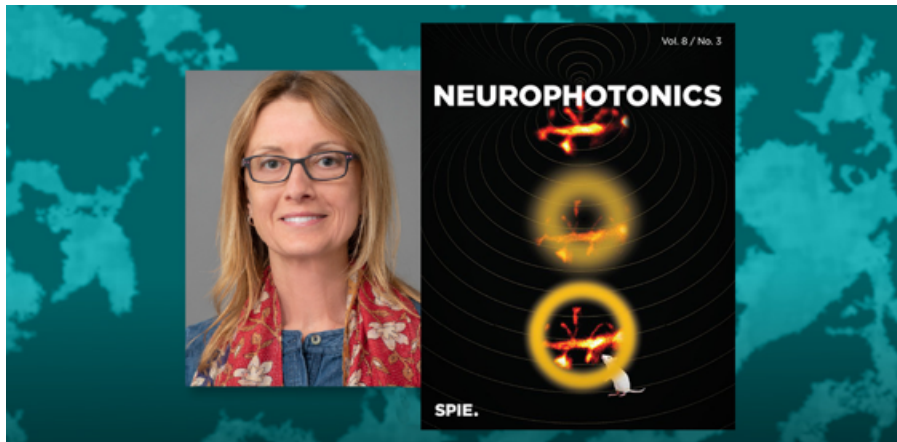
Wong Lab Develops Smarter Cancer-Killing Cells

New research from **Associate Professor Wilson Wong** (BME) and his colleagues could enable doctors to program a patient's immune system with a more versatile toolkit than ever before in the fight against cancer, as well as autoimmune diseases. [Read More](#)



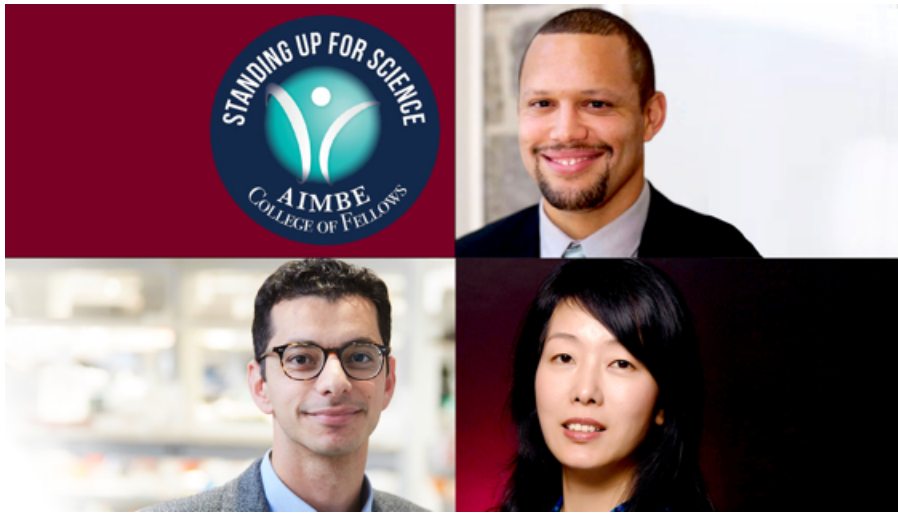
Lewis Wins National Honors for Groundbreaking Research

Continuing a streak of honors for her ground-breaking research into the complex neural circuits that govern sleep, **Assistant Professor Laura Lewis** (BME) has been selected one of 22 early-career researchers to join the [Pew Scholars Program](#) in the Biomedical Sciences. [Read More](#)



Anna Devor steps up as Editor-in-Chief of Neurophotonics

BME's **Associate Professor Anna Devor** will spearhead the mission of [Neurophotonics](#), the open-access journal covering advances in optical technology applicable to the study of the brain, as well as their impact on basic & clinical neuroscience applications. [Read More](#)



Densmore, Khalil and Zhang Named AIMBE Fellows

Three ENG faculty members have been elected to the College of Fellows of the American Institute for Medical and Biological Engineering ([AIMBE](#)): **Associate Professor Doug Densmore**, **Associate Professor Mo Khalil**, and **Professor Katherine Zhang**. [Read More](#)



Neuroscientist Steve Ramirez Wins Top Teaching Award

A CAS assistant professor of psychological and brain sciences, and a BME affiliated faculty member, **Steve Ramirez** (CAS'10), is commended by students for his listen-first approach. Ramirez was awarded this year's top BU teaching award, the [Metcalf Cup and Prize for Excellence in Teaching](#). [Read More](#)



BME Welcomes New Assistant Professors

January 2021:

[Brianna Connizzo](#), [Alex Green](#), [Tim O'Shea](#)

January 2022: [Erica D. Pratt](#)

Recent Publications

Ji-Xin Cheng, Wilson Wong, Mary J. Dunlop -

NATURE COMMUNICATIONS

Microsecond fingerprint stimulated Raman spectroscopic imaging by ultrafast tuning and spatial-spectral learning

[ARTICLE](#)

A. Fan, M. Cabodi, C. Klapperich, M. Grinstaff, A. Dennis, J. Galagan -

NATURE COMMUNICATIONS

A progesterone biosensor derived from microbial screening

[ARTICLE](#)

Wilson Wong et al - CELL

Synthetic biology in the clinic: engineering vaccines, diagnostics, and therapeutics

[ARTICLE](#)

Laura Lewis - POPULAR SCIENCE

You get brainwashed whenever you go to sleep (and that's a good thing)

[ARTICLE](#)

Mike Economo et al - NATURE NEUROSCIENCE

Attractor dynamics gate cortical information flow during decision-making

[ARTICLE](#)

Mo Khalil et al - CELL

Here to stay: Writing lasting epigenetic memories

[ARTICLE](#)

Muhammad Zaman - SCIENCE

Inclusion and equity through STEM training

[ARTICLE](#)

Catherine Klapperich - ACS CENTRAL SCIENCE

Electrochemical Strategy for Low-Cost Viral Detection

[ARTICLE](#)



Pharma, Biotech and Medtech Companies Join BTEC Advisory Board

Senior R&D leaders from 7 sponsor companies have joined with BU's Bioengineering Technology & Entrepreneurship Center to help shape the future of biomedical education and innovation through mutually beneficial partnerships between biomedical industry and academia. [Read More](#)



Lena Landaverde is 2021 Perkins Award Winner

Lena Landaverde (ENG'13,'17), was tasked with coordinating, building, and validating BU's Clinical Testing Lab for COVID-19, which processed 5000+ tests per day and enabled the BU campus to safely open this past year. Lena is assistant director of the College of Engineering's Precision Diagnostics Center. [Read More](#)



BU Engineering Launches Machine Learning Concentration

To prepare students to design data-driven learning and decision-making algorithms across a rapidly growing range of fields, the College of Engineering is now offering an undergraduate concentration in machine learning. Students will be equipped with tools to curate, visualize, and analyze data from a variety of industries. [Read More](#)



BME Department Awards

Cathie Klapperich - ENG 2021 Teaching Excellence Award

Cathie Klapperich - Special College Distinguished Service Award

Doug Densmore - Special College Distinguished Service Award

Aleks Zosuls - Departmental Teaching Award

Allyson Sgro - Departmental Faculty Service Award

Stephanie Johnson - Outstanding Staff Member Award

Christine McKee - ENG Master's Societal Impact Award

Chris Sloas - Best Dissertation Award

Student Honors



2021 Senior Design Award Winners 2021

The **Senior Design** capstone project allows senior engineering students to apply their undergraduate training to real world challenges, under the guidance of faculty, clinician and industry advisors.

1st place

[**A Wearable Solution for Treating Apnea of Prematurity through Application of Physical Stimuli**](#)

2nd Place

[**Simulating Age-Related Bone Loss and Disc Degeneration in Human Lumbar Spine Segments for Study of Vertebral Fractures**](#)

3rd Place

[**Attachable Intraoral Camera for Dental Handpieces**](#)

[**Read More**](#)



Boston University College of Engineering
Department of Biomedical Engineering

The **Biomedical Engineering Department at Boston University** is among the largest of its kind in the US and is home to award-winning faculty, exceptional students, and numerous research centers and laboratories engaged in an array of interdisciplinary biomedical activities. Founded in 1966, today we offer a full suite of undergraduate and graduate degrees, and are consistently ranked among the top BME departments in the nation by *U.S. News & World Report*.

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