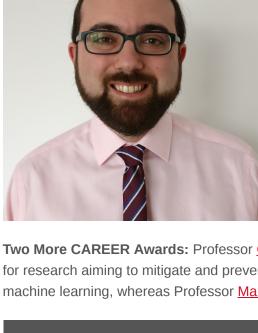
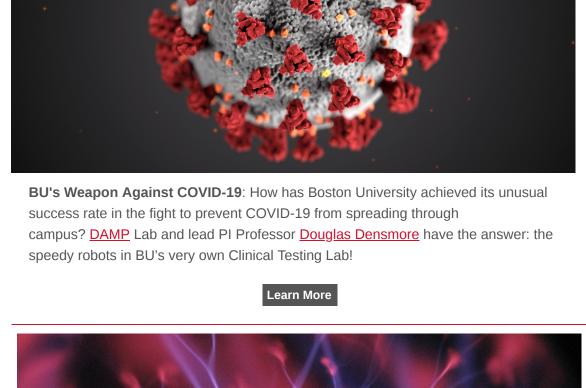
ECE 2020 FALL NEWSLETTER

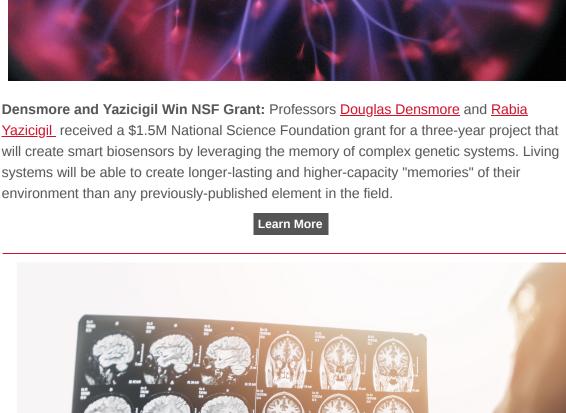
<u>2019-2020 Impact Report</u> released! Take a look at last year's achievements.





Egele CAREER Award Stringhini CAREER Award





Cheng Wins MIRA Grant to Continue Breakthrough Imaging Research: Professor Ji-Xin

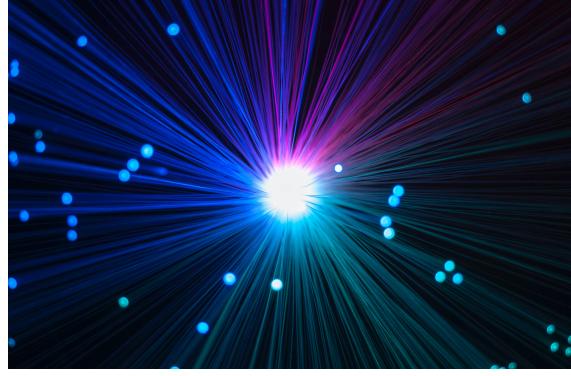
National Institutes of Health for a five-year project to create novel imaging systems based on label-free imaging. This technique will allow researchers and clinicians to study a wide range

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Cheng received a \$2.9M Maximizing Investigator's Research Award (MIRA) from the

Boas Team Wins \$5.9M Grant for Neuroimaging Project: Professor David

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Dal Negro Earns NSF award: Professor Luca Dal Negro earned a National Science Foundation award for a project focused on developing a new generation of ultra-compact, multi-functional, and inexpensive spectroscopic devices based on nano-structured silicon

Learn More

FACULTY HONORS

Unlu Elected to AiMBE College of Fellows: Professor <u>Selim Ünlü</u> was elected to the American Institute for Medical and Biological Engineering (AIMBE) College of Fellows for his pioneering work on optical interference in biological imaging and

Goyal Earns IEEE Award: Professor Vivek Goyal won a 2019 IEEE Signal Processing Society Best Paper Award. In "Photon-Efficient Computational 3-D and Reflectivity Imaging With Single-Photon

Detectors," Goyal describes models and

techniques.

methodology which can provide up to a 20-fold depth error reduction over state-of-the-art

Service Award Recipient: Professor Robert

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Gray earned the 2020 Aaron D. Wyner Distinguished Service Award from the IEEE Information Theory Society for his outstanding

leadership and exceptional service in the Information Theory community throughout his 50-year career.

Leading Anti-Racism in Engineering: The use of "slave" and "master" terminology to describe the relationship between computing devices has been

changes.

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an accepted practice in engineering for decades. However, computer engineering graduate student Santiago Gomez came across this metaphor in his textbook, contacted academic publisher Pearson, and successfully urged them to make long overdue

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STUDENT ACHIEVEMENTS



Learn More 2021 U.S. NEWS AND WORLD REPORT PROGRAM RANKINGS 30% OF ECE BACHELOR'S **DEGREES AT BU WERE** AWARDED TO WOMEN IN 2019/20 COMPARED TO

 Current/Former IEEE Society Presidents Society Fellows NSF, DOE and DOD Early Career Awards Average H-Index per Faculty **6,300** Average Number of Citations per Faculty Tenure-Track Faculty

\$40M

Two More CAREER Awards: Professor Gianluca Stringhini earned an NSF CAREER Award for research aiming to mitigate and prevent toxic online behavior with signal processing and machine learning, whereas Professor Manuel Egele will study the security of IoT devices.

environment than any previously-published element in the field.

Boas, Director of the Neurophotonics Center, and his team were awarded a National Institutes of Health grant to create a portable, wearable brain-imaging system that will allow them to study how the brain reacts to certain stimuli such as a stroke or traumatic brain injury.

of cancers and other diseases.

spin-orbit interactions.

materials.

MURI Support for Spin-Orbit Investigation: Professor Siddharth Ramachandran, in collaboration with co-PIs at Harvard and Stanford, has been awarded a \$3M Multi University Research Initiative (MURI) grant from the Office of Naval Research in support of their

investigations into the science and application of singular light beams in the presence of

Learn More

sensing. Learn More Gray Named 2020 Aaron D. Wyner Distinguished

Student Satellite Blasts Off: After three years of work, the Boston University SATellite program (BUSAT) launched a network of mini-sensors, ANDESITE, into space on a private rocket from New Zealand's Mahia Peninsula. The group is now on a three-year mission to deploy 8 smaller spacecraft that will form a space-based sensor network to measure small-scale variations in electric currents flowing into and out of our atmosphere.

> NATIONAL AVERAGE OF 15% Most recent data from ASEE **Distinguished Faculty 4** National Academy Members

> > RESEARCH FUNDING

\$15 M

\$35 M

\$25 M \$12M 2010 (f) lacksquare

Upcoming BU ECE Events

(in)

2020

10 YEARS