SPRING 2021 NEWSLETTER

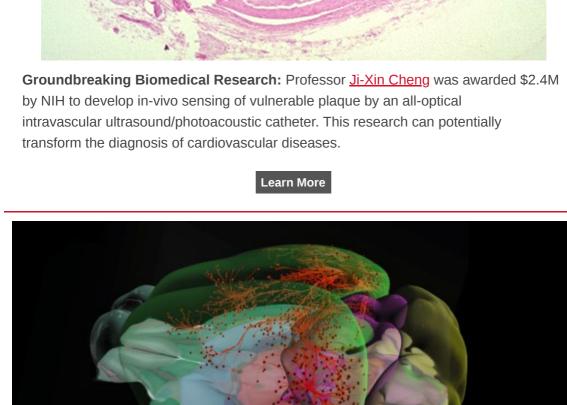
Assistant Professor Francesco Orabona receives an NSF CAREER Award to develop

more automated machine

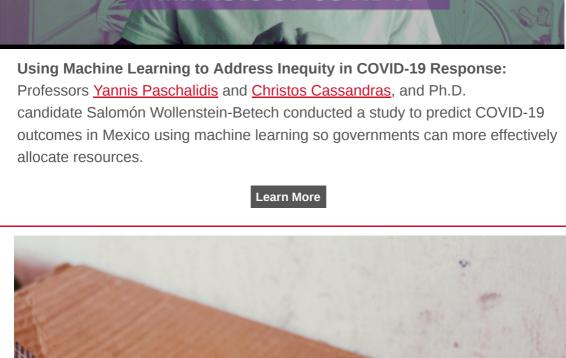
learning algorithms.

Read more here!

NSF Award to Advance the Field of Supramolecular Materials: Professor Sahar Sharifzadeh was awarded \$720K to carry out interdisciplinary research on bio-inspired active materials. She and her team hope to develop conductive supramolecular materials that self-assemble in response to stimuli. Learn More



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DISPROPORTIONATE

Banning Trump from Social Media Makes Sense. But Beware the Downside: Professor Gianluca Stringhini was interviewed about the possible unforeseen

consequences of banning former President Donald Trump from Twitter, Facebook and



focuses on an assistance system for self-driving cars that would allow blind or visually-

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impaired people to travel completely independently.



New Frontiers in Self-driving Cars: Professor Vivek Goyal and his team have been

driving cars' imaging abilities more accurate and safer.

Moustakas Elected OSA Fellow: Professor

of the Optical Society. He is recognized for his "seminal and sustained contributions to optical materials and devices, particularly in nitride

semiconductors."

Theodore Moustakas was elected a Fellow Member

advancing the capabilities of an emerging technology called single-photon lidar to make self-

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FACULTY HONORS

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Densmore Elected AIMBE Fellow: Professor **Douglas Densmore** was elected to the 2021 American Institute for Medical and Biological Engineering College of Fellows. His research expertise lies in electrical engineering, which he uses to design living systems intended for biosensing and bio-remediation applications.

Saligrama was selected as a 2021-22 Distinguished Lecturer of IEEE Signal Processing Society. He will serve as an ambassador for the program and will lecture internationally in the area of machine learning and its societal impacts. Learn More Coskun Receives IBM faculty award: Professor

> deployment in the cloud, also known as DevSecOps. Learn More STUDENT ACHIEVEMENTS Joshua Rapp Wins the 2020 IEEE SPS Young Author Best Paper Award: ECE recent alumnus Joshua Rapp has won the 2020 IEEE Signal Processing Society Young Author Best Paper Award for a paper entitled "A Few Photons Among Many: Unmixing Signal and Noise for Photon-

> > Efficient Active Imaging," which describes novel computational imaging that he developed as a

Fall 2020 ECE Grad Students' Successes: PhD students in the Electrical and Computer Engineering Department have had a successful year despite many challenges, from winning a scholarship to

Ayse Coskun earned an IBM Faculty Award to advance her research on AI-driven data fusion techniques to inherently increase robustness and security of modern application development and

attend the Grace Hopper Conference and securing a patent to winning best-paper and outstanding innovation awards.

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student at BU.

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2021 U.S. NEWS AND WORLD REPORT PROGRAM RANKINGS 30% OF ECE BACHELOR'S AWARDED TO WOMEN IN 2019/20 COMPARED TO **NATIONAL AVERAGE OF 15%** Most recent data from ASEE **Distinguished Faculty**

> 6,300 Average Number of Citations per Faculty **51** Tenure-Track Faculty RESEARCH FUNDING

New Device Makes it Easier to Read Brains: Professor Lei Tian and collaborators from Biomedical Engineering and Biology have developed a Computational Miniature Mesoscope (CM2) that can be attached to a mouse while it freely moves around to detect full cortex-wide brain functions during activity.

other platforms.

Professor Venkatesh Saligrama Named 2021 IEEE Distinguished Lecturer: Professor Venkatesh

Wei Xiao Wins 2020 IEEE CDC Outstanding Student Paper Award: PhD candidate Wei Xiao won a 2020 IEEE Conference on Decisions and Control Outstanding Student Paper Award for his paper entitled "Feasibility-Guided Learning for Constrained Optimal Control Problems". The paper addresses a fundamental and challenging problem in control theory: stabilizing a dynamical system while optimizing a cost and satisfying constraints.

4 National Academy Members

44 Society Fellows 29 NSF, DOE and DOD Early Career Awards **34** Average H-Index per Faculty

\$40M

2020

Upcoming BU ECE Events

3 Current/Former IEEE Society Presidents \$35 M

\$25 M

\$15 M \$12M 2010