



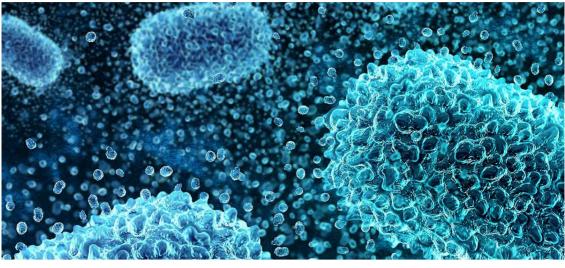
# 💬 IN THE MEDIA



Taking the "U" Out of "UFO:" In January, Professor Joshua Semeter appeared on a new one-hour special from the classic PBS series, NOVA, to share his scientific perspective on an astronomically popular topic.

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Rapid Detection on a Chip: An optical biosensor developed by Professor Selim <u>Ünlü</u> and collaborators diagnoses monkeypox in record time.

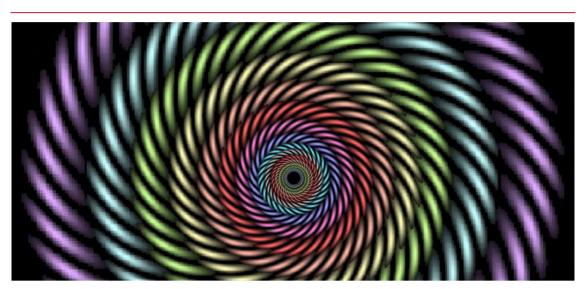
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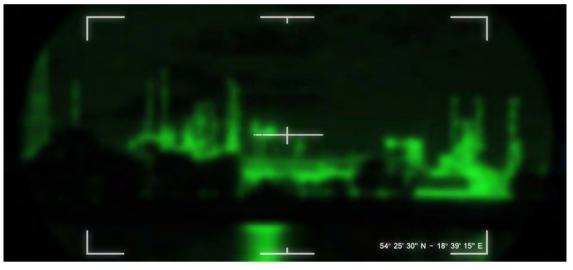
Microwaves for Neural Health: A team led by Professors Ji-Xin Cheng and Chen Yang has discovered a new way of using microwaves to safely treat epilepsy and other neurological disorders.

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Twisting Light Could Speed--and Green--Up the Internet: Professor Siddharth Ramachandran is working on a technology that could potentially help make the internet faster and more efficient-and cut its power consumption.

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Envisioning Better Night Vision: Professor Luca Dal Negro is working to develop novel optical materials for improved night vision systems, a contribution to DARPA's "Envision" program.

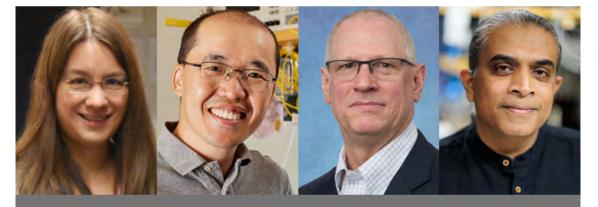
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Google AI Awards: Three ECE faculty have received funding for groundbreaking new AI-centric projects; Professor Kayhan Batmanghelich is working to address bias in breast cancer risk prediction models, while Professors Ayse Coskun and Gianluca Stringhini are developing improvements to resilience, efficiency, and security in complex large-scale systems.

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#### Presidential Honors

Professor Michelle Sander is the recipient of a 2025 Presidential Early Career Award for Scientists and Engineers (PECASE), the United States government's highest honor for researchers early in their careers.

#### Eye-Opening Contributions

Professors Michelle Sander and Lei Tian have been elected to Optica's 2025 class of Fellows, for their sterling contributions in ultrafast fiber lasers and computational imaging, respectively.

#### Serving His Field

Professor W. Clem Karl, Chair of the Department of Electrical and Computer Engineering, has been elected to serve as IEEE's 2025 Vice President of Publication Services and Products.

#### Taking the Reins

Distinguished Professor of Engineering Siddharth Ramachandran has assumed the role of Editor-in-Chief of Optics Express, one of the premiere peer-reviewed journals in the field of Optics and Photonics.

## STUDENTS & ALUMNI



A Successful Conference Season: "Unleashing Performance Insights with Online Probabilistic Tracing," first-authored by Dr. Mert Toslali (ECE PhD'23) and coauthored by current PhD student Syed Qasim, was one of several papers by BU ECE researchers to win Best Paper Awards this past fall.





Analog Neural Networks: In a new paper published by Nature Communications, first-authored by alum Dr. Cansu Demirkiran (ECE PhD'24), researchers lay out an eponymous "blueprint for precise and fault-tolerant analog neural networks."

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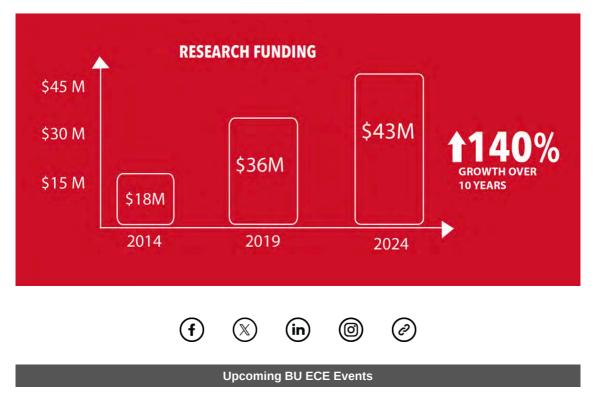
Letting the Sunshine In: Annie Rabi Bernard (ECE Prid 20) and former BO ECE Research Scientist and Postdoctoral Associate Ryan Eriksen (MSE PhD'15) are bringing self-cleaning solar panel technology to market with their new company, Sol Clarity.

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### **Distinguished Faculty**

**4** National Academy Members **3** Current/Former IEEE Society Presidents 7 Current/Former Editors-in-Chief 50 Society Fellows 32 NSF, DOE and DOD Early Career Awards 42 Average H-Index per Faculty 9,500 Average Number of Citations per Faculty **51** Tenure-Track Faculty



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