



# Spring 2026 Newsletter

## Major Accolades

A new National Academy Fellow and prestigious honors in Physics & Optics.



**National Academy of Inventors Fellow:** **Professor Ji-Xin Cheng** was elected to the rank of Fellow of the NAI in recognition of his pursuit of patents, production and commercial markets for his ground-breaking innovations in optics and microscopy.

[Read More](#)



**2026 Oliver E. Buckley Condensed Matter Physics Prize:** **Professor David Bishop** was recognized by the American Physical Society for foundational research into two-dimensional superfluids. [Read More](#)



**2026 SPIE G.G. Stokes Award in Optical Polarization:** **Professor Siddharth Ramachandran** was honored for seminal contributions in the area of spatially and vectorially structured light in optical fibers. [Read More](#)

## New ECE Faculty

5 new members have joined the BU ECE faculty in just 2 years! Meet our newest.



**Professor Wei-Lun (Harry) Chao's** machine learning expertise ranges from 3D perception for AVs to Imageomics and beyond, with broad practical applications. [Read More](#)

**Professor David Lake's** focus on the development of quantum interconnects promises to bring the quantum computing future closer to realization. [Read More](#)

## WATCH: Professor Coskun's TED Talk

Presented at TED AI in October 2025; now available to view online!



**The Story You're Not Hearing About AI Data Centers:** **Professor Ayşe Coskun's** recent TED talk explains how the technology causing the AI datacenter energy crisis might be the only thing smart enough to fix it. [Watch Now!](#)

## Research Highlights

From hybrid bio-electronic devices to quantum breakthroughs, and beyond.



- **Matters of Perception:** **Professor Vivek Goyal** has received a pair of NSF grants funding research into improved long-distance 3D imaging and atmospheric sensing using light outside the visible spectrum. [Read More](#)
- **A Living Internet of Things:** Professors **Douglas Densmore** and **Rabia Yazicigil** published a review & vision paper in *Nature Biotechnology* aimed at introducing and describing "Cyber-Secure Biological Systems," a potentially key component for future research across multiple disciplines. [Read More](#)
- **From Selfish Driving to Social Optimality:** In a recent *Nature* report, **Professor Christos Cassandras** shared his proposal for a networked environment in which every vehicle shares data regarding position, velocity, and destination to optimize routing across an entire city. [Read More](#)
- **A New Path to Restoring Vision:** A study led by **Professor Chen Yang** and published in *Nature Communications* introduced a promising new technology to treat degenerative eye disease: a flexible retinal prosthesis. [Read More](#)
- **Accolades for Quantum Analysis:** **Professor Luca Dal Negro's** recent joint paper in *Physical Review B*, cited as a "rigorous and timely" study in quantum nanophotonics, was selected as an Editor's Suggestion. [Read More](#)
- **Quantum Research, Getting Warmer:** **Professor Anna Swan** and collaborators have unlocked the key to room-temperature superfluorescence and potentially much more, as published in *Nature*. [Read More](#)

## ECE Faculty By The Numbers

- 5 National Academy Members
- 50 Society Fellows
- 34 NSF, DOE and DOD Early Career Awards
- 44 Average H-Index per Faculty
- 10,500 Average Number of Citations per Faculty
- 53 Tenure-Track Faculty

## Upcoming BU ECE Events

