



Fall 2025 Newsletter

2025 NSF CAREER Awards



Professor Eshed Ohn-Bar,
"Advancing AI for Accessibility
with User Feedback."

[Read More](#)

Professor Kayhan Batmanghelich
"Making Domain-Specific AI
Models Steerable by Leveraging
Foundational Models."

[Read More](#)

New Faculty



Laying a Course for Crash Prevention: The research of BU ECE's newest Assistant Professor, **Yigong Hu**, centers on building reliable computational infrastructure and mitigating performance issues in large-scale systems. [Read More](#)

Research Highlights



Modeling Pulmonary Biomarkers: **Professor Kayhan Batmanghelich**'s AI-driven approach, supported by a \$3.1M NIH award, integrates multi-modal data and biomechanics for better diagnosis and tracking of chronic obstructive pulmonary disease (COPD). [Read More](#)



Finding Coherence: **Professor Archana Venkataraman** has been awarded \$3.2M by the NIH to parse and predict post-stroke aphasia recovery. [Read More](#)



Pioneering Wireless Upgrades: **Professor Rabia Yazicigil** co-leads \$6M NEMC project to advance domestic wireless capabilities via the development of universal data decoding chips. [Read More](#)



Going Deeper: **Professor Ji-Xin Cheng** has been awarded a \$2.8M 5-year NIH MIRA grant renewal to continue his pioneering microscopy research. [Read More](#)



Illuminating Energy-Efficient AI: With \$1.5M in support from the NSF, **Professor Ajay Joshi** is exploring the development of novel electro-photonic computing architectures that could perform as well or better than conventional electronic GPUs. [Read More](#)



Hybrid Chips with Quantum Light: In a milestone for scalable quantum technologies, **Professor Miloš Popović** and his team of collaborators have reported the world's first electronic–photonic–quantum system on a chip. [Read More](#)

Faculty in Numbers

- 4** National Academy Members
- 49** Society Fellows
- 35** NSF, DOE and DOD Early Career Awards
- 44** Average H-Index per Faculty
- 10,500** Average Number of Citations per Faculty
- 52** Tenure-Track Faculty

Faculty Honors

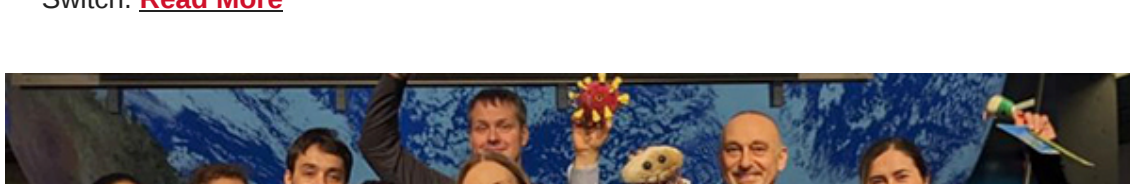


- **The Image of Accomplishment:**
Professor Janusz Konrad has been elected to the rank of 2025 Fellow of the European Association for Signal Processing (EURASIP) for his contributions to visual motion analysis and video processing.
- **Pedagogy and Practice:**
Professor Lei Tian is the recipient of a 2025 Boston University Provost's Scholar-Teacher of the Year Award.
- **An Inviting Approach to Instruction:**
Professor S. Hamid Nawab's superlative teaching has been honored by enthusiastic student nominations, and a College of Engineering inaugural Teaching Excellence in the Core Curriculum Award.

Outreach



The Energy Cost of Every Piece of Data: **Professor Ayşe Coskun** discusses data center power consumption on a new episode of the PBS program Energy Switch. [Read More](#)



Building the Future--Ask Us How! Five BU ECE researchers teamed up with Boston's Museum of Science to share their scientific expertise with the next generation. [Read More](#)