

FACULTY RESEARCH TALKS

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Zoom talk | Friday, Feb. 23, 2023 | Noon to 1 p.m.



PRESENTER 1:

**PARIA
GHARAVI**

Assistant Professor
Materials Science
and Engineering

The Wonderful World of Materials Through the Lens of Transmission Electron Microscopy

Dr. Gharavi's research focuses on discovery, development, and understanding of thin film materials beyond ferroelectric and functional materials, with a focus on novel materials, as they are still poorly understood. She understands the gaps and potential growth areas that others are not exploring. In her presentation, Dr. Gharavi will discuss the characterization of novel materials and their layered composites, with a focus on Scanning/Transmission Electron Microscopy (S-TEM) studies.

Dr. Gharavi received her master's degree in materials science and engineering from Sharif University of Technology and doctoral degree from the University of New South Wales. She conducted postdoctoral research in materials characterizations using electron microscopy at the University of Pennsylvania. She is a materials scientist and electron microscopist, with a strong background in materials engineering.



PRESENTER 2:

**KEVIN
MULLALLY '05**

Associate Professor
Finance and Real
Estate
College of Business

Incentives in the Asset Management Industry: How Do Asset Managers Respond to Their Compensation Incentives and to Disclosure Requirements?

In this presentation, Dr. Mullally will discuss his research on incentives in the asset management industry. This research has primarily focused on two main areas: the impact that compensation has on investment performance and how institutions respond to disclosure requirements. As an example of this work, he will present a recent study which explores how mutual funds behave when forced to benchmark their performances to a market index.

Dr. Mullally's research interests include institutional investors, financial markets and behavioral finance. His work has been published in the *Journal of Finance*, the *Journal of Financial Economics*, *Management Science*, and the *Journal of Banking and Finance*. It has also been featured in publications, such as *Bloomberg*, the *Wall Street Journal*, *Forbes* and the *Financial Times BoardIQ*. Dr. Mullally's research has been presented at prestigious conferences, such as the Western Finance Association meetings, the American Finance Association meetings and the China International Conference in Finance. He received his doctoral and master's degrees in finance from Georgia State University and earned his bachelor's degree in mathematics education from UCF.



PRESENTER 3:

**HADI M.
KAMALI**

Assistant Professor
Electrical and
Computer
Engineering

Microelectronics Supply Chain Security: Building Secure Hardware by Construction

In this presentation, Dr. Kamali will discuss work from his research group on microelectronics security and trust, with a focus on securing hardware design approaches applicable at the earliest stage of the microelectronic supply chain. The presentation covers the main area of focus, including IP protection techniques in hardware designs for better sustainability, secure hardware generation by electronic design automation tools, protection and secure authorization in diverse post-CHIPS technologies, and use of emerging AI models with a particular focus on large language models for automation of security and verification.

Dr. Kamali directs the Hardware Assurance and Verification Excellence Research Group, or HAVEN. He received his doctorate from George Mason University. His research interests delve into hardware security with a particular focus on exploiting IP protection techniques, design-for-trust for VLSI circuits and CAD frameworks for security (design-for-security). Dr. Kamali's research has received recognition from various conferences, including the best paper nomination/recipient from DATE2023, HOST2022, ICCAD2020, ISVLSI2020 and IEEE DCAS 2020. His research projects have also been funded projects by both government and industry, including the NSF, SRC, DARPA, Synopsys, Intel and Microchip.