

Fowler School of Engineering

Presents:

Traveling Through Disciplines



Dr. Andrea Armani

Wednesday, April 28th 2021

12:00pm-1:00pm

Zoom ID: 968 7382 0457

Free to attend! All are welcome!

Andrea Armani received her BA in physics from the University of Chicago and her **PhD in applied physics** with a minor in biology from the California Institute of Technology. She is currently the Ray Irani Chair of **Engineering and Materials Science at the University of Southern California**. She is the Director of the two USC nanofabrication cleanrooms: **W. M. Keck Photonics Cleanroom** and **John D. O'Brien Nanofabrication Laboratory**. She is on the Editorial Board of **ACS Photonics** and **APL Photonics**, **Feature Editor of Optics Letters**, **member of Sigma Xi and NAI**, a **senior member of IEEE and AIChE**, and a **Fellow of OSA and SPIE**. She has received several awards, including the **ONR Young Investigator Award**, the **PECASE**, and the **NIH Director's New Innovator Award**. In addition, her dedication to mentoring has been recognized with the USC Mellon Mentoring Award for Undergraduate Mentoring and the Hanna Reisler Award for Mentoring.

Over the past decade or so, my career has taken me from Physics to Biology to **Engineering**. This experience has taught me one thing: the more you know, the better questions you can ask. This philosophy is exemplified in my current research, which is focused on the development of new diagnostic systems. This work includes synthesizing new materials, fabricating new integrated **photonic devices**, and studying the **mechanical behavior** of tissue to understand disease progression. We have numerous collaborations with physicians to guide and to accelerate the medical relevancy of our research. During this presentation, I will discuss highlights of a few recent projects as well as my path over my academic career, focusing on critical decision points.



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