

NSF NANOSCALE SCIENCE AND ENGINEERING GRANTEES CONFERENCE: NANO-AI
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ACADEMIC CO-CHAIR: **Nano-AI convergence for biology and nanomedicine**

CHRISTINE K. PAYNE

Yoh Family Professor
Thomas Lord Department of Mechanical Engineering and
Materials Science
Duke University



EMAIL: CHRISTINE.PAYNE@DUKE.EDU

Bio: Christine Payne is the Yoh Family Professor of Mechanical Engineering and Materials Science at Duke University. Her research focuses on understanding how cells interact with nanomaterials. Her lab uses advanced fluorescence microscopy approaches to image this interaction and lab automation to increase throughput and reproducibility. Dr. Payne has received many honors including an NIH Director's New Innovator Award in 2009 and a DARPA Young Faculty Award in 2011. She is a Fellow of the Royal Society of Chemistry. She earned a B.S. in Chemistry from the University of Chicago (1998) and a Ph.D. in Chemistry from the University of California, Berkeley (2003). Prof. Payne spent 2003-2006 as an NIH NRSA Postdoctoral Fellow at Harvard University. She served as a Jefferson Science Fellow with the U.S. Department of State in 2024.