

NSF NANOSCALE SCIENCE AND ENGINEERING GRANTEES CONFERENCE:

NANO AND AI CONVERGENCE

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National Science Foundation



Bio: Dr. Margaret Kim is a Program Director of EPMD (Electronics, Photonics, and Magnetic Devices) of the Electrical, Communication and Cyber Systems (ECCS) division in the Directorate for Engineering (ENG). Dr. Kim received her Ph.D. in Electrical and Computer Engineering, M.S in Physics from Northwestern University, and B.S in Physics from Yonsei University in South Korea. Dr. Kim has been a Professor in the ECE department at the University of Alabama since 2007. Before joining UA, she was a Research Associate and Consulting Assistant/Associate Professor at Stanford University from 2003-2007 and also worked at Agilent and Samsung before then. Her research interests in photonics, metamaterials, and THz technologies are targeted for future biomedical diagnostics platforms, quantum sensing, quantum networks, 6G/7G and beyond, AI-aided bio-imaging, space exploration, underwater imaging, and understanding of the brain. At NSF, she has contributed to initiatives such as the Future of Semiconductors and Quantum Information Science and Engineering (QISE), alongside her work on core programs. She is also passionate about human-centered technologies, in addition to the diverse programs she manages. She has published over 180 publications and holds 3 patents.