

Dr. Fan Zhang



Bio

Dr. Fan Zhang joined Nuclear and Radiological Engineering (NRE) Program in George W. Woodruff School of Mechanical Engineering at Georgia Tech as an Assistant Professor in 2021. She directs Intelligence for Advance Nuclear (iFAN) lab at Georgia Tech to perform cybersecurity, predictive maintenance, digital twin, autonomous control, and robotics research. Prior to joining Georgia Tech, Dr. Zhang was a Research Assistant Professor at the University of Tennessee, Knoxville (UTK), where she worked on several DOE funded projects related to online monitoring, fault detection, and cybersecurity. She closely collaborates with national laboratories and industry to ensure the applicability of her research to the wider nuclear field. She has also been engaged in International Atomic Energy Agency (IAEA) cybersecurity research and invited by IAEA as a cybersecurity expert to agency mission world widely and NucSecCyber Webinars. She received her Ph.D. degree in Nuclear Engineering and a master's degree in Statistics from UTK in 2019. She is the recipient of the 2021 Ted Quinn Early Career Award from the American Nuclear Society for her contribution in instrumentation and control (I&C), and cybersecurity. She received DOE NE Distinguished Early Career Award on her project "Robot-assisted Online Monitoring, Online Maintenance, and Dynamic Risk Assessment for LWRs and Advanced Reactors". She is a recipient of the UT Knoxville Alumni Volunteer 40 Under 40 Award.

Years beyond PhD

Three years

Research area

Autonomous control, digital twins, cybersecurity, machine learning, and robotics applications for nuclear industry

School of employment

Georgia Institute of Technology

Educational background (field of degrees)

Ph.D. University of Tennessee, Knoxville, Nuclear Engineering, 2019

M.S. University of Tennessee, Knoxville, Statistics, 2019

M.S., North China Electric Power University, Nuclear Engineering, 2016

B.S. North China Electric Power University, Nuclear Engineering, 2013