

SHORT BIO:

Dr. Danfeng (Daphne) Yao is a Professor of Computer Science at Virginia Tech. She is an Elizabeth and James E. Turner Jr. '56 Faculty Fellow and CACI Faculty Fellow. Her research interests are on building deployable and proactive cyber defenses, focusing on detection accuracy and scalability. She creates new models, algorithms, techniques, and deployment-quality tools for securing large-scale software and systems. Her tool CryptoGuard helps large software companies and Apache projects harden their cryptographic code. She systematized program anomaly detection in the book *Anomaly Detection as a Service*. She has multiple US patents for her inventions on network causal analysis for forensics. Her enterprise data-loss prevention papers are among top downloaded articles in IEEE SPS and Wiley WIREs. Dr. Yao received the NSF CAREER Award for her work on human-behavior driven malware detection and ARO Young Investigator Award for her semantic reasoning for mission-oriented security work. Dr. Yao is the ACM SIGSAC Treasurer/Secretary and is a member of the ACM SIGSAC executive committee since 2017. She spearheads multiple inclusive excellence initiatives in the cybersecurity research community, including the NSF-sponsored Individualized Cybersecurity Research Mentoring (iMentor) Workshop and the Women in Cybersecurity Research (CyberW) Workshop. Daphne received her Ph.D. degree from Brown University, M.S. degrees from Princeton University and Indiana University, Bloomington, B.S. degree from Peking University in China.