

CURRICULUM VITAE

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EDUCATION

- 1999 - 2004: Doctor of Science (D.Sc.) in Computer Science, The George Washington University, Washington DC, USA.
- 1997 - 1999: M.S. in Computer Science, Southeastern University, Washington DC, USA.
- 1989 - 1991: M.S. in Applied Chemistry, National Chiao-Tung University, Taiwan.
- 1985 - 1989: B.S. in Chemistry, National Sun Yat-Sen University, Taiwan.

ACADEMIC EXPERIENCE

- December 2020 – Present: Professor of Computer Science at Norfolk State University.
- August 2015 – June 2021: B.S. ITE Program Coordinator at Norfolk State University.
- August 2014 – December 2020: Associate Professor of Computer Science at Norfolk State University.
- January 2005 – May 2014: Assistant/Associate Professor of Computer Science at Hampton University.

PUBLICATION (2020 - Present)

- "Attacks and Vulnerabilities in Mobile Payment Applications", Journal of the Colloquium for Information System Security Education, Vol. 7, No. 1 (2020). (Journal Paper)
- Felton Blow; Yen-Hung (Frank) Hu; Mary Ann Hoppa, "A Study on Vulnerabilities and Threats to Wearable Devices", Journal of the Colloquium for Information System Security Education, Vol. 7, No. 1 (2020). (Journal Paper)
- Dawn Silverman; Yen-Hung (Frank) Hu; Mary Ann Hoppa, "A Study on Vulnerabilities and Threats to SCADA Devices", Journal of the Colloquium for Information System Security Education, Vol. 7, No. 1 (2020). (Journal Paper)
- Dominicia Williams, Yen-Hung (Frank) Hu, Mary Ann Hoppa, "Follow the Money Through Apple Pay," Journal of Journal of the Colloquium for Information System Security Education, Vol. 8, No. 1 (2020). (Journal Paper)

- Dar'rell Pope, Yen-Hung (Frank) Hu, Mary Ann Hoppa, "A Survey on Securing Personally Identifiable Information on Smartphones," Virginia Journal of Science 2020. (Journal Paper)
- Abhinav Kommula, Yen-Hung (Frank) Hu, Mary Ann Hoppa, Samuel Olatunbosun, "Machine Learning Techniques to Enhance Container Network Security," in Proceeding of the 2020 International Conference on Computational Science and Computational Intelligence CSCI'20, December 16-18, 2020, Las Vegas, USA. (Conference Paper)
- Charles Hu, Yen-Hung (Frank) Hu, "Data Poisoning on Deep Learning Models," in Proceeding of the 2020 International Conference on Computational Science and Computational Intelligence CSCI'20, December 16-18, 2020, Las Vegas, USA. (Conference Paper)
- Danielle D. Godsey, Yen-Hung (Frank) Hu, Mary Ann Hoppa, "A Multi-Layered Approach to Fake News Identification, Measurement and Mitigation," in Proceeding of Future of Information and Communication Conference (FICC) 2021, April 29-31, 2021, Vancouver, Canada. (Conference Paper)
- Yen-Hung (Frank) Hu, Chung-Chu (George) Hsieh, "A Study of Classifying Advanced Persistent Threats With Multi-Layered Deep Learning Approaches", in Proceeding of the 13th International Workshop on Cyberspace Security and Artificial Intelligence (CAI-2021), October 1-3, 2021, New York, USA. (Conference Paper)
- Michelle Hu, Yen-Hung (Frank) Hu, "The Effects of Different Parameters on the Accuracy of Deep Learning Models for Predicting U.S. Citizen's Life Expectancy", in Proceeding of the 2021 International Conference on Computational Science and Computational Intelligence CSCI'21, December 15-17, 2021, Las Vegas, USA. (Conference Paper)
- Yen-Hung (Frank) Hu, "Providing A Hands-on Advanced Persistent Threat Learning Experience Through Ethical Hacking Labs", Journal of the Colloquium for Information System Security Education, Vol. 9, No. 1 (2022) (Journal Paper)
- Yelena Arishina, Yen-Hung Hu, Mary Ann Hoppa, "A Study of Video Conferencing Software Risks and Mitigation Strategies", Journal of the Colloquium for Information System Security Education, Vol. 9, No. 1 (2022) (Journal Paper)
- Robert C. Hall, Mary Ann Hoppa, Yen-Hung Hu, "An Empirical Study of Password Policy Compliance", Journal of the Colloquium for Information System Security Education, Vol. 10, No. 1 (2023). (Journal Paper)
- Michelle Hu, Yen-Hung Hu, "Machine Learning With Adaptive Image Colorization for Improving Facial Recognition", The 27th International Conference on Image Processing, Computer Vision, & Pattern Recognition (IPCV'23), July 24-27, 2023, Las Vegas, USA. (Conference Paper)
- Kingsley Nwosu, Musbah Abdulgader, Yen-Hung Hu, "Securing the Digital Frontier: A Proactive Approach to Software Development", 24th Annual IEEE International Conference on Electro Information Technology (eit2024), May 30 - June 1, 2024, University of Wisconsin-Eau Claire, Eau Claire, Wisconsin, USA. (Conference Paper)

- Kingsley Nwosu, Kashaun Gaines, Musbah Abdulgader, Yen-Hung Hu, “Enhancing Patient-Provider Interaction by Leveraging AI for Facial Emotion Recognition in Healthcare”, will appear in the proceeding of 2024 International Conference on Computer and Applications (IEEE/ICCA24), December 17 - 19, 2024, The British University in EGYPT, EGYPT. (Conference Paper)
- Kingsley Nwosu, Musbah Abdulgader, Yen-Hung Hu, “Data Partitioning and Storage Strategies for Artificial Intelligence and Machine Learning Applications: A Review of Techniques”, will appear in the proceeding of 2024 International Conference on Computer and Applications (IEEE/ICCA24), December 17 - 19, 2024, The British University in EGYPT, EGYPT. (Conference Paper)

EXTERNAL FUNDING AWARDED as PRINCIPAL INVESTIGATOR (PI) (2020 – Present)

- “Developing Deep Learning Machine Learning Techniques for Classifying Advanced Malwares”, Commonwealth Cyber Initiative (CCI) Fellowship, \$100,000, June 1, 2020 - June 30, 2022.
- “Developing Deep Learning Techniques for Classifying Advanced Malwares”, Nvidia Academic Hardware Grant Program, July 2021.
- “VICEROY - Consortium of Cybersecurity REsearch and Advanced Training of ROTC Students (CREATORS) Virtual Institute”, Griffiss Institute, March 11, 2022 – August 10, 2024, \$275,000.
- “NSU Quantum Computing Curriculum, Faculty, Workforce, and Research Proposal Development Project”, IBM-HBCU Quantum Center, July 1, 2022 – December 31, 2023, \$149,754.
- “SBIR Phase II: Digital Media Synchronization, Performance and Urban Education Enhancement”, ThinkLive!, June 22, 2022 – May 23, 2023, \$105,000.
- “Empowering NSU Quantum Computing Research and Education: High-Performance QKD Algorithms for IBM Quantum Computing”, \$100,000, IBM-HBCU Quantum Center Seed Award, October 2024.

PROFESSIONAL AFFILIATION (2020 - Present)

- Senior Member of the Association of Computing Machinery (ACM)
- Member of Planning Committee of the Colloquium for Information Systems Security Education (CISSE)
- Member of Program Committee in the Security, Privacy, Trust and Ethics Special Track at The Florida Artificial Intelligence Research Society (FALIRS)
- Fellow of the Commonwealth Cyber Initiative (CCI)
- Faculty Fellow of IBM-HBCU Quantum Center

LICENSES AND CERTIFICATIONS (SELECTED)

- CompTIA Security+ Certification
- Qiskit Global Summer School 2022 – Quantum Excellence
- Qiskit Global Summer School 2024 – Quantum Excellence
- Oracle Database Administrator