Xueqiang (Brandon) Wang

xueqiang.wang@ucf.edu, +1 832 983 5394

Research Interests

Privacy Compliance and Supply Chain Security of Agentic Systems, Mobile, and IoT

Education

08/2015 – 01/2021: Indiana University Bloomington

- Ph.D. in Computer Science (Minor: Artificial Intelligence)
- Thesis: Towards Intelligent and Scalable Security Analysis of Mobile and IoT Systems
- Advisor: Prof. XiaoFeng Wang

09/2012 – 06/2015: Institute of Information Engineering, Chinese Academy of Sciences (CAS)

- Master in Computer Science and Technology. Graduated with *Dean's Award*
- Advisors: Dr. Yuewu Wang and Prof. Jiwu Jing

09/2008 – 06/2012: University of Science and Technology of China (USTC)

- Bachelor in Information Security. *National Scholarship* (0.2%) for Two Consecutive Years

Work Experience

10/2022 – Now: University of Central Florida, Orlando, FL

- Assistant Professor, CS, and Cyber Security and Privacy Cluster

04/2020 – 10/2022: Amazon Lab126, Sunnyvale, CA

- Security Engineer, Amazon Digital and Device Security
- Manager: Howard Lew

05/2019 – 08/2019: NIO, San Jose, CA

- Security Research Intern, Automotive Security
- Mentor: Mark Hoy
- Manager: Dr. Qiyan Wang

05/2018 – 08/2018: Symantec Research Labs, Mountain View, CA

- Security Research Intern, Generating IoT Device Fingerprints for Vulnerability Discovery.
- Mentor: Dr. Yuqiong Sun
- Manager: Dr. Petros Efstathopoulos

Conference Publications

Summary: Most cybersecurity and privacy researchers consider the conferences below to be top-tier venues, which are also listed on CSRankings.org (for acceptance rates, see **this**); My PhD students graduate (or are on track to graduate) with 3+ first-author publications in these venues.

- Top-tier security conference papers (19): Oakland (IEEE Security & Privacy) x5, CCS x2, USENIX Security x8, NDSS x4
- Other top-tier conference papers (1): ACM CHI x1

(#: Students for whom I serve as the main advisor on the corresponding projects.)

[1] (CSRankings) Jingzhou Ye#, Zhaojie Hu#, Yao Li, and **Xueqiang Wang**. "When Designers Meet GenAI: Understanding the Role of Prompt-to-Design Generators in Privacy Dark Patterns." In IEEE Symposium on Security and Privacy (S&P), 2026. (*AR=12.7%*).

[2] (CSRankings) Zhaojie Hu# and **Xueqiang Wang**. "Navigating Developers' Quagmire: LLM-Enabled Privacy Compliance Analysis for SDK Integrations." In IEEE Symposium on Security and Privacy (S&P), 2026. (*AR=12.7%*).

[3] (CSRankings) Jingzhou Ye#, Fares Alharbi, Luyi Xing, and **Xueqiang Wang**. "Understanding and Analyzing Privacy Risks in Mobile Consent-Management Platforms." In IEEE Symposium on Security and Privacy (S&P), 2026. (*AR=12.7%*).

[4] Yixi Lin, Yue Xu, Zitong Yao, Yuhong Nan, Queping Kong, and **Xueqiang Wang**. "Why Biting the Bait? Understanding Bait and Switch UI Dark Patterns in Mobile Apps." In International Conference on Information and Communications Security (ICICS), 2025. Available from: https://dl.acm.org/doi/10.1007/978-981-95-3540-8_30.

[5] Jiatao Cheng, Yuhong Nan, **Xueqiang Wang**, Zhefan Chen, and Yuliang Zhang. "Identifying Unusual Personal Data in Mobile Apps for Better Privacy Compliance Check." In International Conference on Information and Communications Security (ICICS), 2025. Available from: https://dl.acm.org/doi/10.1007/978-981-95-3540-8_29.

[6] (CSRankings) Tao Jing#, Yao Li, Jingzhou Ye#, Jie Wang, and **Xueqiang Wang**. "Privacy Law Enforcement Under Centralized Governance: A Qualitative Analysis of Four Years' Special Privacy Rectification Campaigns." In USENIX Security Symposium, 2025. (*AR=17.1%*). Available from: https://www.usenix.org/conference/usenixsecurity25/presentation/jing.

[7] (CSRankings) Jingzhou Ye#, Yao Li, Wenting Zou, and **Xueqiang Wang**. "From Awareness to Action: The Effects of Experiential Learning on Educating Users about Dark Patterns." In Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (CHI), 2025. (*AR=24.9%*). Available from: https://doi.org/10.1145/3706598.3713493 [Best Paper Award (Top-1%)].

[8] (CSRankings) [Yifan Zhang#, Zhaojie Hu#], **Xueqiang Wang**, Yuhui Hong, Yuhong Nan, XiaoFeng Wang, Jiatao Cheng, and Luyi Xing. "Navigating the Privacy Compliance Maze: Understanding Risks with Privacy-Configurable Mobile SDKs." In USENIX Security Symposium, 2024, August 14–16. (*AR=17.6%*). Available from: https://www.usenix.org/conference/usenixsecurity24/presentation/zhang-yifan.

[9] [Zhaojie Hu#, Jingzhou Ye#], Yifan Zhang#, and **Xueqiang Wang**. "Seeing is Not Always Believing: An Empirical Analysis of Fake Evidence Generators." In IEEE European Symposium on Security and Privacy (EuroS&P), 2024, July 8–12. (*AR=21.6%*). Available from: https://ieeexplore.ieee.org/document/10628523. DOI: 10.1109/EuroSP60621.2024.00037.

[10] Zhaoxin Cai, Yuhong Nan, **Xueqiang Wang**, Mengyi Long, Qihua Ou, Min Yang, and Zibin Zheng. "DARPA: Combating Asymmetric Dark UI Patterns on Android with Run-time View Decorator." In DSN, 2023, June 27–30. (*AR=19.6%*). Available from: https://ieeexplore.ieee.org/document/10202645. DOI: 10.1109/DSN58367.2023.00052.

[11] (CSRankings) **Xueqiang Wang**, Yifan Zhang#, XiaoFeng Wang, Yan Jia, and Luyi Xing. "Union under Duress: Understanding Hazards of Duplicate Resource Mismediation in Android Software Supply Chain." In USENIX Security Symposium, 2023, August 9–11. (*AR=29.2%*). Available from: https://www.usenix.org/conference/usenixsecurity23/presentation/wang-xueqiang-duress.

[12] (CSRankings) **Xueqiang Wang**, Yuqiong Sun, Susanta Nanda, and XiaoFeng Wang. "Credit Karma: Understanding Security Implications of Exposed Cloud Services through Automated Capability Inference." In USENIX Security Symposium, 2023, August 9–11. (*AR=29.2%*). Available from: https://www.usenix.org/conference/usenixsecurity23/presentation/wang-xueqiang-karma.

[13] (CSRankings) [Yuhong Nan, **Xueqiang Wang**], Luyi Xing, Xiaojing Liao, Ruoyu Wu, Jianliang Wu, Yifan Zhang, and XiaoFeng Wang. "Are You Spying on Me? Large-Scale Analysis on IoT Data Exposure through Companion Apps." In USENIX Security Symposium, 2023, August 9–11.

(*AR=29.2%*). Available from: https://www.usenix.org/conference/usenixsecurity23/presentation/nan.

[14] (CSRankings) Jice Wang, Yue Xiao, **Xueqiang Wang**, Yuhong Nan, Luyi Xing, Xiaojing Liao, JinWei Dong, Nicolas Serrano, XiaoFeng Wang, Yuqing Zhang, and Haoran Lu. "Understanding Malicious Cross-library Data Harvesting on Android." In USENIX Security Symposium, 2021, August 11–13. (*AR=18.7%*). Available from: https://www.usenix.org/conference/usenixsecurity21/presentation/wang-jice.

[15] (CSRankings) Haoran Lu, Luyi Xing, Yue Xiao, Yifan Zhang, Xiaojing Liao, XiaoFeng Wang, and **Xueqiang Wang**. "Demystifying Resource Management Risks in Emerging Mobile App-in-App Ecosystems." In ACM CCS, 2020, November 9–13. (*AR=16.9%*). Available from: https://doi.org/10.1145/3372297.3417255.

[16] (CSRankings) **Xueqiang Wang**, Yuqiong Sun, Susanta Nanda, and XiaoFeng Wang. "Looking from the Mirror: Evaluating IoT Device Security through Mobile Companion Apps." In USENIX Security Symposium, 2019, August 14–16. (*AR=15.5%*). Available from: https://www.usenix.org/conference/usenixsecurity19/presentation/wang-xueqiang.

[17] (CSRankings) [Yeonjoon Lee, **Xueqiang Wang**], Kwangwuk Lee, Xiaojing Liao, XiaoFeng Wang, Tongxin Li, and Xianghang Mi. "Understanding iOS-based Crowdturfing Through Hidden UI Analysis." In USENIX Security Symposium, 2019, August 14–16. (*AR=15.5%*). Available from: https://dl.acm.org/doi/10.5555/3361338.3361391.

[18] (CSRankings) Wei You, **Xueqiang Wang**, Shiqing Ma, Jianjun Huang, Xiangyu Zhang, XiaoFeng Wang, and Bin Liang. "ProFuzzer: On-the-fly Input Type Probing for Better Zero-day Vulnerability Discovery." In IEEE Symposium on Security and Privacy (S&P), 2019, May 20–22. (*AR=12.4%*). Available from: https://ieeexplore.ieee.org/abstract/document/8835384. DOI: 10.1109/SP.2019.00057 [Best Applied Security Paper Award TOP-10 Finalist, CSAW 2019].

[19] (CSRankings) Xiaokuan Zhang, **Xueqiang Wang**, Xiaolong Bai, Yinqian Zhang, and XiaoFeng Wang. "OS-level Side Channels without Procfs: Exploring Cross-App Information Leakage on iOS." In NDSS, 2018, February 18–21. (*AR=20.9%*). Available from: http://dx.doi.org/10.14722/ndss.2018.23260 [Best Applied Security Paper Award TOP-10 Finalist, CSAW 2018].

[20] (CSRankings) Yue Duan, Mu Zhang, Abhishek Vasist Bhaskar, Heng Yin, Xiaorui Pan, Tongxin Li, **Xueqiang Wang**, and XiaoFeng Wang. "Things You May Not Know About Android (Un)Packers: A Systematic Study based on Whole-System Emulation." In NDSS, 2018, February 18–21. (*AR=20.9%*). Available from: http://dx.doi.org/10.14722/ndss.2018.23296.

[21] (CSRankings) Tongxin Li, **Xueqiang Wang**, Mingming Zha, Kai Chen, XiaoFeng Wang, Luyi Xing, Xiaolong Bai, Nan Zhang, and Xinhui Han. "Unleashing the Walking Dead: Understanding Cross-App Remote Infections on Mobile WebViews." In ACM CCS, 2017, October 30–November 3. (*AR=18.1%*). Available from: https://doi.org/10.1145/3133956.3134021.

[22] (CSRankings) Xiaorui Pan, **Xueqiang Wang**, Yue Duan, XiaoFeng Wang, and Heng Yin. "Dark Hazard: Learning-based, Large-Scale Discovery of Hidden Sensitive Operations in Android Apps." In NDSS, 2017, February 26–March 1. (*AR=16.1%*). Available from: http://dx.doi.org/10.14722/ndss.2017.23265.

[23] (CSRankings) Kai Chen, **Xueqiang Wang**, Yi Chen, Peng Wang, Yeonjoon Lee, XiaoFeng Wang, Bin Ma, Aohui Wang, Yingjun Zhang, and Wei Zou. "Following Devil's Footprints: Cross-Platform Analysis of Potentially Harmful Libraries on Android and iOS." In IEEE Symposium on Security and Privacy (S&P), 2016, May 23–25. (*AR=13.4%*). Available from: https://ieeexplore.ieee.org/document/7546512. DOI: 10.1109/SP.2016.29.

[24] (CSRankings) **Xueqiang Wang**, Kun Sun, Yuewu Wang, and Jiwu Jing. "DeepDroid: Dynamically Enforcing Enterprise Policy on Android Devices." In NDSS, 2015, February 8–11. (*AR=16.9%*). Available from: https://www.ndss-symposium.org/wp-content/uploads/2017/09/02_5_1.pdf.

[25] **Xueqiang Wang**, Yuewu Wang, Limin Liu, Lingguang Lei, and Jiwu Jing. "Wrapdroid: Flexible and Fine-Grained Scheme Towards Regulating Behaviors of Android Apps." In ICISC, 2014, December 3–5. Available from: https://link.springer.com/chapter/10.1007/978-3-319-15943-0_16.

Journals

[26] Hoon Ji, Sungbin Park, Jungmin Lee, Minjae Kang, Junggab Son, **Xueqiang Wang**, Hong-In Won, Seung-Hyun Seo, and Yeonjoon Lee. "DRIFT: Drone Identification From Real-Time Current Consumption Fingerprints." Under submission to IEEE Internet of Things Journal, 2026.

[27] Sungbin Park#, Changbae Seo, **Xueqiang Wang**, Yeonjoon Lee, and Seung-Hyun Seo. "Exclusively In-Store: Acoustic Location Authentication for Stationary Business Devices." Journal of Network and Computer Applications, 2024, September 12. DOI: https://doi.org/10.1016/j.jnca.2024.104028. (*IF=7.7*).

[28] Sungbin Park#, **Xueqiang Wang**, Kai Chen, and Yeonjoon Lee. "STATION: Gesture-Based Authentication for Voice Interfaces." IEEE Internet of Things Journal, 2024, March 28. Available from: https://ieeexplore.ieee.org/document/10485205. DOI: 10.1109/JIOT.2024.3382721. (*IF=10.6*).

[29] [Yeonjoon Lee, **Xueqiang Wang**], Xiaojing Liao, and XiaoFeng Wang. "Understanding Illicit UI in iOS Apps through Hidden UI Analysis." IEEE Transactions on Dependable and Secure Computing, 2019, 18(5): 2390–2402, October 31. Available from: https://ieeexplore.ieee.org/abstract/document/8888213. DOI: 10.1109/TDSC.2019.2950253. (*IF=6.4*).

[30] **Xueqiang Wang**, Lingguang Lei, and Yuewu Wang. "An Easy-To-Deploy Behavior Monitoring Scheme for Android Applications." Journal of University of Chinese Academy of Sciences, 2015, 32(5): 689–694. Available from: http://journal.ucas.ac.cn/CN/10.7523/j.issn.2095-6134.2015.05.016. (In Chinese)

[31] **Xueqiang Wang**, Lingguang Lei, and Yuewu Wang. "A Review of Security Threats of Mobile Internet." NetInfo Security, 2014, 14(9): 30–33. Available from: http://netinfo-security.org/CN/10.3969/j.issn.1671-1122.2014.09.007. (In Chinese)

Workshops, Posters, and Preprints

[32] Song Wu, Yifan Zhang, **Xueqiang Wang**, Bo Wang, Yinfeng Cao, and Qin Wang. "When Ad Networks Misbehave: Understanding Risks of Semi-Drive-By in the Splash Ads Ecosystem." Poster at IEEE Symposium on Security and Privacy (S&P), 2026.

[33] Dongpeng Wu, Yuhong Nan, Shaojiang Wang, Jiawei Wang, Luwa Li, and **Xueqiang Wang**. "Understanding the Sneaky Patterns of Pop-up Windows in the Mobile Ecosystem." arXiv preprint, 2025. Available from: https://arxiv.org/abs/2505.12056.

[34] Jiaqi Xue, Yancheng Zhang, Yanshan Wang, **Xueqiang Wang**, Hao Zheng, and Qian Lou. "CryptoTrain: Fast Secure Training on Encrypted Dataset." In 1st ACM Workshop on Large AI Systems and Models with Privacy and Safety Analysis (LAMPS), co-located with ACM CCS, 2024, October 14. Available from: https://dl.acm.org/doi/10.1145/3689217.3690617.

[35] Jun Tang, Aleksandra Korolova, Xiaolong Bai, **Xueqiang Wang**, and XiaoFeng Wang. "Privacy Loss in Apple's Implementation of Differential Privacy on macOS 10.12." In Theory and Practice of Differential Privacy (TPDP), co-located with ACM CCS, 2017, October 30. Available from: https://doi.org/10.48550/arXiv.1709.02753.

Patents

[36] Yuqiong Sun, **Xueqing Wang**, Susanta Nanda, and Petros Efstathopouloss. "Determining security vulnerabilities of Internet of Things devices". Patent #: 11132447

[37] Yuqiong Sun, **Xueqing Wang**, Susanta Nanda, Yun Shen, Pierre-Antoine Vervier, and Petros Efstathopoulos. "Systems and methods for fingerprinting devices". Patent #: 11122040

Current and Past Grants

[1] NSF #2520321, "SaTC 2.0: EDU: Experiential Learning of Dark Patterns for Cybersecurity and Privacy," $300,000, PI, 07/01/2025-06/30/2028.

[2] LIFE Gerontology Research Grant, "DpTrek: Developing Experiential Learning of Dark Patterns for Older Adults," $1,200 for Compensating Participants, PI, 03/14/2025-03/13/2026.

[3] UCF Seed Funding Program, "Developing Experiential Learning of Dark Patterns for Older Adults," #44,582, PI, 02/12/2025.

[4] NSF #2320974, "Collaborative Research: Implementation: Medium: Secure, Resilient Cyber-Physical Energy System Workforce Pathways via Data-Centric, Hardware-in-the-Loop Training," $59,302, PI, 09/01/2023 - 08/31/2027.

[5] Research Cloud Starter Award, $1,000 Credit, Oracle, Support Identifier 27502287.

Honors and Awards

- Best Paper Award, ACM CHI 2025 (Top 1% submissions).
- Vulnerability Bounty Reward, $5000, Google, 2019.
- Best Applied Security Paper Award TOP-10 Finalists, CSAW 2019.
- Best Applied Security Paper Award TOP-10 Finalists, CSAW 2018.
- Vulnerability Bounty Reward, $9500, Facebook, 2017.
- 2015 Dean's Award, Institute of Information Engineering, CAS.
- 2011 Outstanding Student Scholarship, USTC.
- National Scholarship, 2010 (Top 0.2% nationwide).
- National Scholarship, 2009 (Top 0.2% nationwide).

Advising or Mentoring

Direct Advisee:

- Fall 2023 - Now: Jingzhou Ye, PhD Student, 2023.
  - *Recipient of FCI Student Fellowship and S&P Student Travel Grant*
  - *EuroS&P'24 x1, CHI'25 x1 (Best Paper Award), S&P'26 x2*
- Fall 2023 - Now: Zhaojie Hu, PhD Student, 2023
  - *Recipient of ORCGS Doctoral Fellowship*
  - *EuroS&P'24 x1, USENIX Security'24 x1, S&P'26 x1*
- Fall 2025 - Now: Olabamipe Taiwo, PhD Student, 2025
- Fall 2025 - Now: Jihwan Song, MS–>PhD Student, 2025
- Fall 2025 - Spring 2026: Arman Hasan, PhD Student, 2025 (*No longer under my supervision*)
- Spring 2025 - Now: Alexander Charkiewicz, MS Student, 2024
- Fall 2025 - Spring 2026: Samatrai Piam, MS Student, 2025
- Summer 2025: Arianna Loucks, MS and SFS Student, 2025
- Spring 2024 - Now: Martin de Salterain, Undergraduate–>MS, 2018 (w/ Dr. Paul Gazzillo)
- Fall 2023 - Spring 2024: Omar Saleme, Universidad de Puerto Rico, CAHSI REU Student, 2024
- Spring 2023: Edelma Saenz, CAHSI REU Student, 2020 (*Joined MS in CyberSP at UCF*)

Other I Worked Closely With for Some Time

- Fall 2021 - Spring 2024: Yifan Zhang, Indiana University, PhD Student, 2019
  - *USENIX Security'23 x1, USENIX Security'24 x1*
  - *Joined SDSU (an R1 institution) as a Tenure-Track Assistant Professor*
- Summer 2023 - Fall 2024: Tao Jing, HUST, PhD Student, 2024
  - *USENIX Security'25 x1*

- Fall 2022 - Spring 2023: Zhaoxin Cai, Sun Yat-sen University, MS
  - *DSN'23 x1*
- Fall 2022 - Now: Sungbin Park, Hanyang University, PhD Student, 2022
  - *IoTJ'24 x1, JNCA'24 x1*
- Spring 2026: Nilakshi Dashpute, UCF, 2026
  - UCF Student Scholar Symposium, "*Breaking the Guardrails: Jailbreaking Large Language Models Using Low-Resource Languages*"
- Spring 2026: Leonardo Sandoval, UCF, 2026
  - UCF Student Scholar Symposium, "*EndeavOs: An Experimental Evaluation of a Security-by-Default Network Gateway Platform for the United States Home and Small Business Environments*"
- Summer 2021: Autumn Li, UC Berkeley, Software Engineering Intern at Amazon Lab126
- Summer 2016: Jourdan Beverly, Indiana University, IU REU/SROC Student

Thesis/Dissertation Committee Member:

- Mayank Kumar, CS PhD, Candidancy (Spring 2026)
- Kunbei Cai, ECE PhD, Proposal (Summer 2024)
- Guangyu Sun, CS PhD, Candidacy (Spring 2025), Proposal (Fall 2025), Defense (Spring 2026)
- Konstantin Metz, CyberSP MS, CyberCorps SFS Student, Defense (Spring 2026)
- Ali Al Kinoon, CS PhD, Proposal (Spring 2025), Defense (Summer 2025)
- Jie Lin, CS PhD, Proposal (Spring 2025), Defense (Summer 2025)
- Soohyeon Choi, CS PhD, Proposal (Summer 2023), Defense (Spring 2025)
- Ahod Alghuried, CS PhD, Proposal (Fall 2024), Defense (Spring 2025)
- Nigel Francis, MS in CyberSP, 2024, Defense (Spring 2025)
- ibrahim Alwhbi Alharbi, CS PhD, Proposal (Spring 2024), Defense (Summer 2024)
- Mohammed Al kinoon, CS PhD, Proposal (Summer 2023), Defense (Spring 2024)
- Mohammed Alqadhi, CS PhD, Proposal (Fall 2023), Defense (Spring 2024)
- Kieran Human, MS in CyberSP, 2023, Defense (Fall 2023)

Professional Services

Program Committee Member:

- ACM CCS (2024, 2025, 2026)
- USENIX Security (2025-Cycle1, 2026)
- NDSS (2026, 2027)
- ICCCN (T8: Security, Privacy, and Trust; 2026)
- AsiaCCS (2025)
- EuroS&P (2024)
- ACNS (2023)

Reviewer for Journals and Others:

- Automated Software Engineering (2026)
- CHI (2026)
- Empirical Software Engineering (EMSE, 2025)
- TIFS (2023, 2024)

- TDSC (2023)
- IEEE Security & Privacy (2022)
- TOPS (2021)
- Journal of Computer Science and Technology (JCST, 2021)

Organizing Committee:
- ACM CCS 2024 (Registration Chair)

Grant Panel:
- NSF OAC (2024)
- NSF SaTC (2024)

Session Chair:
- "Usable Security: Password? I Hardly Know Her!", NDSS (2026)

Sub-reviewer:
- S&P (2018, 2019)
- NDSS (2018)
- USENIX Security (2016, 2017)
- ACM CCS (2017)
- IoT S&P (2017)

Others:
- Volunteer: Administration for Paper Submission and Assignment Systems (CCS 2018, 2019)

UCF Internal Services

Search Committee Member:
- Resilient, Intelligent, and Sustainable Energy Systems (RISES), Spring 2026
- Cyber Security and Privacy Areas, Spring 2023
- Admin Coordinator III, Fall 2023

Others:
- New Initiative Chair, Cyber and Privacy Cluster (Spring 2025-Now)
- Judge of Senior Design Projects (Fall 2024)
- Advisory Board of Career Services & Experiential Learning (Fall 2024)
- Organizer of Cyber Security and Privacy Seminar (Fall 2023 - Spring 2024)
- Instructor of Camp Connect I, CS Track - "Cybersecurity" (Summer 2023)

Talks and Outreach Activities

Invited Talks
- 2025, LIFE at UCF, "What Makes Online Services Tricky and Deceptive? Exploring Common Dark Patterns and Their Impact on User Experience", Orlando, FL
- 2023, RUC Seminar Series: Relibability of Foundational Software and Intelligent Systems, "Understanding Security Hazards of Third-Party Dependencies in the Android Application Supply Chain", Virtual
- 2023, Statistical and Data Science Colloquium, UCF, "Understanding Security Hazards of Third-Party Dependencies in the Android Application Supply Chain", Orlando, FL

- 2023, SMST Seminar Series, UCF, "Combating Mobile-Based Cybercrime with Semantic Analysis", Orlando, FL
- 2022, CECS Virtual Seminar, UCF, "Improving Security and Privacy Transparency of Mobile and IoT Systems, and their Supply Chains", Orlando, FL
- 2022, Business Information Technology Department at Virginia Tech, "Software Supply Chain Security: An Overview and Case Studies", Virtual
- 2019, NIO USA, "New Techniques and Discoveries on Mobile and IoT Security", San Jose, CA
- 2019, Symantec Research Labs, "Looking from the Mirror: Evaluating IoT Device Security through Mobile Companion Apps", Sunnyvale, CA

Conference Talks

- 2023, USENIX Security, "Are You Spying on Me? Large-Scale Analysis on IoT Data Exposure through Companion Apps", ANAHEIM, CA
- 2023, USENIX Security, "Credit Karma: Understanding Security Implications of Exposed Cloud Services through Automated Capability Inference", ANAHEIM, CA
- 2019 USENIX Security, "Looking from the Mirror: Evaluating IoT Device Security through Mobile Companion Apps", Santa Clara, CA
- 2015 Network and Distributed System Security Symposium (NDSS), "DeepDroid: Dynamically Enforcing Enterprise Policy on Android Devices", San Diego, CA
- 2014 International Conference on Information Security and Cryptology, "Wrapdroid: Flexible and Fine-Grained Scheme Towards Regulating Behaviors of Android Apps", Seoul, Korea

Others

- Fall 2025, Legacy Pointe Health Research Fair, "Surviving the Web Jungle: Your Guide to Spotting and Navigating Dark (Deceptive) Patterns on Websites", Orlando, FL.
- Summer 2025, NSF CyberTraining: Workforce Development for Future Smart Energy Systems, "Security and Privacy of Internet of Things (IoT): Vulnerabilities, Attacks, and Hands-on Experiments", Virtual.
- Spring 2025, UCF/LM Cybermeeting, "Introduction to SPIRIT@UCF: Past and Future Research on Security Vulnerabilities and Privacy Threats", Orlando, FL.
- Summer 2024, NSF CyberTraining: Workforce Development for Future Smart Energy Systems, "Security and Privacy of Internet of Things (IoT): Vulnerabilities, Attacks, and Hands-on Experiments", Virtual.
- 2023, Camp Connect I, UCF, CS Track - "Cybersecurity", Orlando, FL.
- 2022, EECS Colloquium, Washington State University, "Towards Intelligent and Scalable Security Analysis of Mobile and IoT Systems: New Threats and Opportunities", Virtual.

Teaching

Spring 2026, Instructor, CAP 5151 Internet of Things Security and Privacy, UCF

Number of Students Enrolled: 39

Fall 2025, Instructor, CIS 6614 Advanced Software Systems Security, UCF

Number of Students Enrolled: 77

Spring 2025, Instructor, CAP 5151 Internet of Things Security and Privacy, UCF

Number of Students Enrolled: 32

Fall 2024, Instructor, CDA 5106 Advanced Computer Architecture, UCF

Number of Students Enrolled: 81

Spring 2024, Instructor, CDA 3103 Computer Logic and Organization, UCF
Number of Students Enrolled: 232

Fall 2023, Instructor, CAP 5150 0001 Foundations of Computer Security and Privacy, UCF
Number of Students Enrolled: 49

Fall 2023, Instructor, CAP 5150 0V61 Foundations of Computer Security and Privacy, UCF
Number of Students Enrolled: 40

Spring 2023, Instructor, CDA 3103 Computer Logic and Organization, UCF
Number of Students Enrolled: 172
(*First time teaching*)

Fall 2016, Guest Lecturer, CSCI P438 Computer Networks, Indiana University
Instructor: Dr. Feng Qian