

Ye Wang

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RESEARCH INTEREST

My research lies at the intersection of system security, sensor-driven computing, machine learning, and user-interactive systems, with a particular emphasis on safeguarding the channels through which humans interact with smart systems. I focus on adversarial attacks, side/covert channels, and the design of practical, user-friendly defenses that address real-world constraints.

- Trustworthy and privacy-preserving ML/AI: Adversarial ML; Prompt injection; AI misinformation and misuse.
- CPS/Mobile security and privacy: Covert and side channels; Sensor-driven adversarial perception; Privacy protection.
- Communication security: NFC; Optical fiber communication; UAV navigation and control-link.

EDUCATION

• University of Kansas Ph.D. in Computer Science, Department of Electrical Engineering and Computer Science Advisor: Prof. Fengjun Li & Prof. Bo Luo	<i>Lawrence, Kansas, United States</i> Jan. 2020 – Present
• Beihang University M.Eng. in Optical Engineering, School of Instrumentation Science and Optoelectronic Engineering Advisor: Prof. Xiaoxiao Wang	<i>Beijing, China</i> Sep. 2011 – Mar. 2014
• Beihang University B.S. in Electronic Engineering, School of Instrumentation Science and Optoelectronic Engineering Advisor: Prof. Zhongyi Chu	<i>Beijing, China</i> Sep. 2007 – Jul. 2011

PUBLICATIONS

Conference Papers

- [C1] Wang, Ye and Luo, Bo and Li, Fengjun. Poster: A Novel Fully Sensor-driven Attack Chain. *Annual Computer Security Applications Conference (ACSAC) 2025*. Accepted.
- [C2] Wang, Ye and Liu, Zeyan and Luo, Bo and Hui, Rongqing and Li, Fengjun. **The Invisible Polyjuice Potion: an Effective Physical Adversarial Attack against Face Recognition**. *Proceedings of the 2024 on ACM SIGSAC Conference on Computer and Communications Security (CCS)*, 2024, 3346–3360.
- [C3] Li, Kevin and Wang, Zhaohui and Wang, Ye and Luo, Bo and Li, Fengjun. **Poster: ethics of computer security and privacy research-trends and standards from a data perspective**. *Proceedings of the 2023 ACM SIGSAC Conference on Computer and Communications Security (CCS)*, 2023, 3558–3560.
- [C4] Fan, Wei and Huang, Weiqing and Zhang, Zhujun and Wang, Ye and Sun, Degang. **A Near Field Communication (NFC) security model based on the OSI reference model**. *2015 IEEE Trustcom/BigDataSE/ISPA*, 2015, 1324–1328.

Journal Papers

- [J1] Kong, Qingshan and Kang, Di and Wang, Ye and Zhang, Meng and Huang, Weiqing. **Eavesdropping Attacks on Optical Fiber Communication and Countermeasure of Optical Fiber Sensing Technology**. *Journal of Information Security Research*, 2.2 (2016): 123.
- [J2] Wang, Xiaoxiao and Wang, Ye* and Qin, Yi and Yu, Jia. **Ratio error of all fiber optical current transformer caused by mean wavelength's fluctuation**. *Infrared and Laser Engineering*, 2015, 44.1 (2015): 233-238.
- [J3] Wang, Xiaoxiao and Wang, Xichen and Wang, Ye and Feng, Xiujuan. **A novel Faraday effect-based semi-physical simulation method for bandwidth of fiber-optic gyroscope**. *Optik*, 2014, 1358–1360.
- [J4] Wang, Xiaoxiao and Wang, Ye* and Wang, Xichen and Wang, Aimin and Peng, Zhiqiang. Experimental research on the dynamic characteristics of fiber-optical current transformer. *Power System Protection and Control*, 42.3 (2014): 9-14.
- [J5] Wang, Xiaoxiao and Qin, Yi and Wang, Ye*. Errors of fiber delay line polarization crosstalk for all fiber optical current sensors. *Optics and Precision Engineering*, 22.11 (2014): 2930-2936.
- [J6] Wang, Xiaoxiao and Wang, Ye* and Li, Chuansheng and others. Measurement method and experimental research of the temperature dependence of the phase delay of quarter-wave plates. *Chinese J Lasers*, 40.12 (2013): 1205004.

RESEARCH AND PROFESSIONAL EXPERIENCE

• Institute for Information Sciences, University of Kansas Graduate Research Assistant	<i>Lawrence, Kansas, United States</i> Jan. 2020 – Present
◦ Non-intrusive physical-layer masking for preventing side-channel leaks via accelerometers. ◦ Combining motion-sensor side channels with covert vibration channels to form a practical attack chain. ◦ Stealthy sensor-enabled logic bombs for Android that evade static analysis, dynamic analysis, and user awareness. ◦ Proactive deepfakes face swap defense with identity/context protection and forensic tracing. ◦ Develop an effective physical adversarial attack against face recognition CNN models.	

• Institute of Information Engineering, Chinese Academy of Sciences*Beijing, China*
Mar. 2014 – Dec. 2019

Assistant Research Scientist

- Designed and implemented GPS spoofing detection techniques for UAV navigation.
- Developed a fiber-optic communication system security monitoring framework, focusing on intrusion detection.
- Developed an unauthorized recording device detection system based on weak magnetic signal analysis.
- Conducted research on security modeling for Near-Field Communication (NFC) devices.

• Institute of Optoelectronics Technology, Beihang University*Beijing, China*
Sep. 2011 – Mar. 2014

Graduate Research Assistant

- Conducted research to improve the dynamic response and measurement accuracy of fiber-optic current transformers.

HONORS AND AWARDS

• Doctoral Student Research Fund Award – University of Kansas (KU)	2025
• Graduate Engineering Association Award – KU	2024
• DAVID D. and MILDRED H. ROBB AWARD – EECS, University of Kansas	2024
• ACM CCS Travel Grant Award – ACM SIGSAC, NSF	2024
• Graduate Student Travel Fund – KU Student Senate	2024, 2025
• CANSec Workshop Travel Grant Award – CANSec, NSF	2022, 2024, 2025
• The second prize of the Science and Technology Award – MIIT (PRC)	2019
• Excellent Researcher – Institute of Information Engineering, CAS	2016, 2018
• Outstanding Master's Thesis Award – Beihang University	2014
• Science and Technology Award – Ministry of Education, PRC	2013
• Graduate Guanghua Scholarship – Beihang University	2013
• Outstanding Undergraduate Thesis Award – Beihang University	2011

TEACHING EXPERIENCE**• Graduate Teaching Assistant***University of Kansas*

◦ EECS 268: Programming II Instructor: <i>Dr. John Gibbons</i>	Spring 2025
◦ EECS 569: Computer Forensics Instructor: <i>Dr. Bo Luo</i>	Fall 2024
◦ EECS 565: Introduction to Information and Computer Security Instructor: <i>Dr. Fengjun Li</i>	Fall 2025, 2024, 2023
◦ EECS 447: Introduction to Database Systems Instructor: <i>Dr. Bo Luo</i>	Spring 2024, 2023

• Teaching Assistant*University of Chinese Academy of Sciences*

◦ Physical Space Information Security Instructor: <i>Prof. Degang Sun</i>	Spring, 2017
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MENTORING EXPERIENCE

1. Yuying Li, PhD student, The University of Kansas, 01/2025-present
Project: A novel attack chain to improve the practicality of side channel attacks
2. Weihang Hu, master student, University of Chinese Academy of Sciences, 9/2018-9/2019
Project: CNN-based electromagnetic spectrum analysis (Master's thesis)
3. Navya Nittala and Sophia Jacob, undergraduate students, The University of Kansas, 5/2024-12/2024
Project: Motion sensor information leakage protection

CONFERENCE PRESENTATION

- Invited talk: A novel fully sensor-driven attack chain, I2S Student Organization (ISO) Meeting, October 23rd, 2025, Nichols Hall, The University of Kansas.
- Agile: An Effective Laser-Based Physical Adversarial Attack against Face Recognition, AI summit *Falling into AI* with Google, October 1st, 2025, Nichols Hall, The University of Kansas.
- The Invisible Polyjuice Potion: An Effective Physical Adversarial Attack against Face Recognition, ACM SIGSAC Conference on Computer and Communications Security (CCS '24), October 17th, 2024, Salt Lake City.
- The Invisible Polyjuice Potion: An Effective Physical Adversarial Attack against Face Recognition, The Central Area Networking and Security Workshop (CANSec) 2024, October 12th, 2024, University of Oklahoma, Norman, OK.
- Stealthily evading surveillance-camera face recognition, FBI and KU Cybersecurity Conference, April 4th, 2024, KU Memorial Union, the University of Kansas.
- Laser man against unauthorized facial recognition systems, The I2S Student Research Symposium (ISRS), March 3rd, 2023, Nichols Hall, The University of Kansas.

PROFESSIONAL MEMBERSHIPS

- ACM SIGSAC Membership

PROFESSIONAL SERVICE

Paper Review

- Journal reviewer for Neural Networks
- Journal reviewer for IEEE Transactions on Dependable and Secure Computing (TDSC)
- External paper reviewer: ACM SIGSAC Conference on Computer and Communications Security (CCS 2025)
- External paper reviewer: the 44th IEEE International Conference on Distributed Computing Systems (ICDCS 2024)
- External paper reviewer: Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2023)
- External paper reviewer: the Annual Computer Security Applications Conference (ACSAC 2023)
- External paper reviewer: Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2022)
- External paper reviewer: IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom 2022)

Community Service

- GenCyber Teacher Camp, Student Volunteer and Teaching Assistant, Funded by NSA and NSF, 2023
- GEA Research Symposium, Student Judge, University of Kansas, 2023
- Session Moderator for EAI SecureComm, 2022

REFERENCES

- Dr. Fenjun Li
fli@ku.edu
EECS, University of Kansas
Deane E. Ackers Professor
- Dr. Bo Luo
bluo@ku.edu
EECS, University of Kansas
H.J. and Joan O. Wertz Professor
- Dr. Rongqing Hui
rhui@ku.edu
EECS, University of Kansas
Professor

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