

# Ye Wang

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## RESEARCH INTEREST

My research has been a continuous journey to understand how security connects sensing, communication, and artificial intelligence across the digital and physical worlds. My research interests include:

- 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

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

## PUBLICATIONS

### Conference Papers

- [C1] Wang, Ye and Luo, Bo and Li, Fengjun. **Beyond Conventional Triggers: Auto-Contextualized Covert Triggers for Android Logic Bombs.** *The Network and Distributed System Security (NDSS) Symposium 2026*. Accepted.
- [C2] Wang, Ye and Luo, Bo and Li, Fengjun. **A Novel Fully Sensor-driven Attack Chain.** *Annual Computer Security Applications Conference (ACSAC) 2025, Poster Session*
- [C3] 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.
- [C4] Li, Kevin and Wang, Zhaoxiao 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.
- [C5] 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

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### • Institute for Information Sciences, University of Kansas

Graduate Research Assistant

Lawrence, Kansas, United States

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

Assistant Research Fellow (full-time)

Beijing, China

Mar. 2014 – Dec. 2019

- 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

Graduate Research Assistant

Beijing, China

Sep. 2011 – Mar. 2014

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

## HONORS AND AWARDS

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- Internet Society NDSS Fellowship – Internet Society 2026
- Doctoral Student Research Fund Award – University of Kansas (KU) 2025
- Graduate Engineering Association Award – KU 2024, 2025
- DAVID D. and MILDRED H. ROBB AWARD – EECS, KU 2024, 2025
- 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 – Ministry of Industry and Information Technology, PRC 2019
- Annual Outstanding Researcher Award – 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

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### • Graduate Teaching Assistant

*University of Kansas*

- EECS 569: Computer Forensics Instructor: *Dr. Bo Luo* Fall 2024
- EECS 565: Introduction to Information and Computer Security Instructor: *Dr. Fengjun Li* Fall 2025, 2024, 2023
- EECS 447: Introduction to Database Systems Instructor: *Dr. Bo Luo* Spring 2026, 2024, 2023
- EECS 268: Programming II Instructor: *Dr. John Gibbons* Spring 2025

### • Teaching Assistant

*University of Chinese Academy of Sciences*

- Physical Space Information Security Instructor: *Prof. Degang Sun* Spring, 2017

## MENTORING EXPERIENCE

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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

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- A novel fully sensor-driven attack chain, Annual Computer Security Applications Conference (ACSAC) poster session, December 11th, 2025, Honolulu, Hawaii, USA
- 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

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- ACM SIGSAC membership
- Internet Society membership

## PROFESSIONAL SERVICE

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### 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

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

Last Update: 12/2025