

# Hui Wei

☎ +86 189 3765 7603 | @ weihui0713@whu.edu.cn | 🌐 GitHub | 🏠 Homepage | 📍 Wuhan, China

A third-year CS Ph.D. student in AIM Lab at Wuhan University (WHU), under the supervision of Prof. Zheng Wang. My research interests lie in **computer vision**, **privacy protection**, and **adversarial attack**, with a particular emphasis on constructing **trustworthy AI** systems.

## EDUCATION

---

### Wuhan University

*Ph.D. in Computer Science and Technology.*

Wuhan, China

Sep 2021 – Present

### Zhengzhou University

*Master in Software Engineering.*

Zhengzhou, China

Sep 2018 – Jun 2021

### Henan Agricultural University

*B.S. in Software Engineering; Rank: 9/61*

Zhengzhou, China

Sep 2014 – Jun 2018

## RESEARCH EXPERIENCE

---

### AIM Lab (AI&Multimedia Lab)

*Ph.D. Candidate*

Wuhan, China

Sep 2021 – Present

- Currently working with Prof. [Zheng Wang](#) on the field “Physical Adversarial Attack” in the AIM Lab ([Lab’s Homepage](#)) at Wuhan University .
- Served as the leader of the Trustworthy AI group in the AIM Lab.

### School of Computer and Artificial Intelligence

*Master Degree Candidate*

Zhengzhou, China

Sep 2018 – Jun 2021

- Worked in the Zhengzhou University with Prof. Mingliang Xu on the field about pedestrian trajectory prediction.

## SELECTED PUBLICATIONS

---

- [1] **Hui Wei**, Zhixiang Wang, Xuemei Jia, Yinqiang Zheng, Hao Tang, Shin’ichi Satoh, and Zheng Wang. HOTCOLD Block: Fooling Thermal Infrared Detectors with a Novel Wearable Design[C]. AAAI 2023. (Oral)
- [2] **Hui Wei**, Hanxun Yu, Kewei Zhang, Zhixiang Wang, Jianke Zhu, and Zheng Wang. Moiré Backdoor Attack (MBA): A Novel Trigger for Pedestrian Detectors in the Physical World[C]. ACM MM 2023.
- [3] Hongyan Gu, Xinyi Zhang, Jiang Li, **Hui Wei**, Baiqi Li, and Xinli Huang. Federated Learning Vulnerabilities: Privacy Attacks with Denoising Diffusion Probabilistic Models[C]. WWW 2024.

## SELECTED AWARDS

---

- China National Scholarship, Wuhan University, 2023.
- Second Prize of Academic Innovation of Wuhan University, 2023.
- First prize in the 18th China ”Challenge Cup” Competition, 2023. [Leader]
- First prize in the “Huawei Cup” Postgraduate Network Security Innovation Competition, 2022. [Technical leader]

## SELECTED OPEN-SOURCE PROJECTS

---

### Survey for Physical Adversarial Attack

- A repository that is dedicated to tracking the latest advances in the field of Physical-Adversarial-Attack. The maintainer will continue to update it.
- GitHub: <https://github.com/weihui1308/PAA>. **50 Stars**.

### Human Privacy Protection under Intelligent Thermal Cameras

- We use anti-fever stickers/heating pads to form an effective solution to protect human privacy under intelligent thermal cameras.
- GitHub: <https://github.com/weihui1308/HOTCOLDBlock>. **24 Stars**.
- Accompanying paper published at AAAI 2023.