

Hui Wei Curriculum Vitae

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A fourth-year CS Ph.D. student in AIM Lab at Wuhan University, under the supervision of Prof. Zheng Wang. My research interests lie in **AI safety**, **adversarial attack**, and **computer vision**, 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 – July 2021

Henan Agricultural University

B.S. in Software Engineering.

Zhengzhou, China

Sep. 2014 – July 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.

SELECTED PUBLICATIONS

* Equal Contribution.

• Physical Adversarial Attack Meets Computer Vision: A Decade Survey

[Hui Wei](#), Hao Tang, Xuemei Jia, Zhixiang Wang, Hanxun Yu, Zhubo Li, Shin’ichi Satoh, Luc Van Gool, Zheng Wang
IEEE Transactions on Pattern Analysis and Machine Intelligence (IEEE T-PAMI), 2024

• Revisiting Adversarial Patches for Designing Camera-Agnostic Attacks against Person Detection

[Hui Wei](#), Zhixiang Wang, Kewei Zhang, Jiaqi Hou, Yuanwei Liu, Hao Tang, Zheng Wang
The Thirty-Eighth Annual Conference on Neural Information Processing Systems (NeurIPS), 2024

• HOTCOLD Block: Fooling Thermal Infrared Detectors with a Novel Wearable Design

[Hui Wei](#), Zhixiang Wang, Xuemei Jia, Yinqiang Zheng, Hao Tang, Shin’ichi Satoh, Zheng Wang
The Association for the Advancement of Artificial Intelligence (AAAI), [Oral](#), 2023

• Moiré Backdoor Attack (MBA): A Novel Trigger for Pedestrian Detectors in the Physical World

[Hui Wei](#), Hanxun Yu, Kewei Zhang, Zhixiang Wang, Jianke Zhu, Zheng Wang
Proceedings of the 31nd ACM International Conference on Multimedia (ACM MM), 2023

• ProjAttacker: A Configurable Physical Adversarial Attack for Face Recognition via Projector

Yuanwei Liu*, [Hui Wei](#)*, Chengyu Jia, Ruqi Xiao, Weijian Ruan, Xingxing Wei, Joey Tianyi Zhou, Zheng Wang
The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025

• Balancing Privacy and Performance: A Many-in-One Approach for Image Anonymization

Xuemei Jia, Jiawei Du, [Hui Wei](#), Ruinian Xue, Zheng Wang, Hongyuan Zhu, Jun Chen
The Association for the Advancement of Artificial Intelligence (AAAI), 2025

• Federated Learning Vulnerabilities: Privacy Attacks with Denoising Diffusion Probabilistic Models

Hongyan Gu, Xinyi Zhang, Jiang Li, [Hui Wei](#), Baiqi Li, Xinli Huang
Proceedings of the ACM Web Conference (ACM WWW), 2024

• Scale Matters: A Benchmark for Physical Adversarial Attacks on Person Detection

[Hui Wei](#), Yuanwei Liu, Xuemei Jia, Baraa Al-Hassani, Manhuen Zhang, Joey Tianyi Zhou, Zheng Wang
The IEEE/CVF Conference on Computer Vision and Pattern Recognition (ICCV), 2025, Under Review

- **Pose Does Matter: Keypoint-Guided Adversarial Patches for Effective Person Hiding Attacks**

*Kewei Zhang**, ***Hui Wei****, *Jiaqi Hou*, *Zheng Wang*

The IEEE/CVF Conference on Computer Vision and Pattern Recognition (ICCV), 2025, Under Review

SELECTED AWARDS

- DiDi Scholarship, Wuhan University, 2024.
- 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>. **83 Stars**.
- Accompanying paper published at IEEE T-PAMI 2024.

Human Privacy Protection under Intelligent Thermal Infrared 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>. **31 Stars**.
- Accompanying paper published at AAAI 2023.