

# Zheng Zhou — Curriculum Vitae

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## RESEARCH INTEREST

My research focuses on exploring the latent properties of neural networks and their connections to brain mechanisms, with the goal of enhancing the sustainability, reliability, and efficiency of machine learning. I aim to investigate these properties from the perspective of robustness and efficiency through two key areas:

- AI Security & Privacy
- Data-efficient Machine Learning

## EDUCATION

### Beihang University

*Ph.D. in Electronic Engineering*

Advisor: Prof. Qi Zhao & Prof. Wenquan Feng

Beijing, China

September 2023 - Now

### Shandong University

*M.Eng. in Electronic Engineering*

Advisor: Prof. Ju Liu

Qingdao, China

September 2020 - June 2023

### Technical University of Ilmenau

*Visiting Student in Electronic Engineering*

Thuerigen, Germany

September 2016 - October 2018

### Qingdao University of Science and Technology

*B.Eng. in Mechanical Engineering and Automation*

Qingdao, China

September 2012 - June 2016

## AWARDS & HONORS

### Oral

*The Thirteenth International Conference on Swarm Intelligence (ICSI), 2022*

### Silver Award

*ASCEND Competition for Re-ID, 2023*

## Academic Service

### Conference Reviewer

\* NeurIPS 2024 (**Top Reviewer**)

\* ICLR 2025

\* AISTATS 2025

\* ICML 2025

\* NeurIPS 2025

### Journal Reviewer

\* *Transactions on Machine Learning Research (TMLR)*

## WORK EXPERIENCE

### Haier Group Corporation

2018 - 2023

– Open Innovation Platform & GE Appliance Development Division

– Embedded Software Engineer

- As a technical leader, organized and completed multiple projects in the home appliance sector, including sweeping robots, mopping robots, and water heaters.
- Took responsibility for Edge AI applications in the home appliance industry, such as food detection, speech recognition, and defect detection.

- . Conducted daily planning sessions and code reviews with team members.

## CONFERENCE PAPERS

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- C1 **BEARD: Benchmarking the Adversarial Robustness for Dataset Distillation**  
**Zhou, Zheng** and Feng, Wenquan and Lyu, Shuchang and Cheng, Guangliang and Huang, Xiaowei and Zhao, Qi  
*Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2025.
- C2 **Adversarial Examples Are Closely Relevant to Neural Network Models - A Preliminary Experiment Explore**  
**Zhou, Zheng** and Liu, Ju and Han, Yanyang  
*Advances in Swarm Intelligence. International Conference on Swarm Intelligence, ICSI. Lecture Notes in Computer Science*, vol 13345. Springer, Cham., 2022.

## MANUSCRIPTS

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- M1 **MVPatch: More Vivid Patch for Adversarial Camouflaged Attacks on Object Detectors in the Physical World**  
**Zhou, Zheng** and Zhao, Hongbo and Liu, Ju and Zhang, Qiaosheng and Geng, Liwei and Lyu, Shuchang and Feng, Wenquan  
*arXiv preprint arXiv:2312.17431*, 2023.  
*Submitted to EAAI - Under review*
- M2 **BACON: Bayesian Optimal Condensation Framework for Dataset Distillation**  
**Zhou, Zheng** and Zhao, Hongbo and Cheng, Guangliang and Li, Xiangtai and Lyu, Shuchang and Feng, Wenquan and Zhao, Qi  
*arXiv preprint arXiv:2406.01112*, 2024.  
*Submitted to PR - Under review*
- M3 **ROME is Forged in Adversity: Robust Distilled Datasets via Information Bottleneck**  
**Zhou, Zheng**, and Feng, Wenquan and Zhang, Qiaosheng and Lyu, Shuchang and Zhao, Qi and Cheng, Guangliang  
*Submitted to top-tier AI conference - Under double-blind review*