

BINGYIN ZHAO

(+65)944-746-31 bingyiz@nus.edu.sg [Homepage](#)

ABOUT ME

- ▷ 7+ years AI researcher and engineer with first-author papers in CVPR, ICCV, AAAI
- ▷ Proficient coding in Python and PyTorch, familiar with Numpy, Scikit-learn, Pandas, Docker, Git, \LaTeX
- ▷ Experience designing and training neural networks in fast-paced teams
- ▷ Solid knowledge in Generative AI, Trustworthy AI, Computer Vision and Deep Learning
- ▷ Research interests in AIGC, AI for Science, Foundation Models, and AI safety

EXPERIENCE

National University of Singapore

Research Fellow

[Singapore](#)

Oct. 2024 – Now

- Research on AIGC, LLM, diffusion models and fractal generative models.
- Supervise Ph.D. students for research on the privacy and security of generative models.

Betterdata

Research Scientist

[Singapore](#)

Oct. 2024 – Now

- Work on research and product development of time series tabular data generation, forecasting and enhancement.
- Delivered Betterdata's first-generation time series tabular generative model.
- Design and develop the conditional tabular generative model using the auto-regressive transformer.

NVIDIA

Deep Learning Software and Research Intern (AV Perception)

[Santa Clara, CA, USA](#)

May. 2022 – Feb. 2023

- Conduct research on zero-shot robustness of ViT-based neural networks against natural corruptions such as weather conditions and natural adversarial examples.
- Published one ICCV paper and filed one U.S patent.
- Received a full-time offer as a Senior Systems Software Engineer but could not return to the U.S. due to an unexpected visa issue.

Clemson University

Researcher

[Clemson, SC, USA](#)

Jan. 2018 – May. 2024

- Research on trustworthy AI, particularly poisoning attacks, backdoor attacks and corresponding countermeasures.
- Published papers at AAAI, WACV, TCAD, DAC, etc.

EDUCATION

CLEMSON UNIVERSITY

Ph.D. in ELECTRICAL AND COMPUTER ENGINEERING

[Clemson, SC, USA](#)

GPA: 4.0

ROCHESTER INSTITUTE OF TECHNOLOGY

Master of Science in ELECTRICAL ENGINEERING

[Rochester, NY, USA](#)

EAST CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY

Bachelor of Science in ELECTRICAL ENGINEERING

[Shanghai, China](#)

SELECTED PUBLICATIONS

Y. Han*, B. Zhao*, R. Chu, F. Luo, B. Sikdar and Y. Lao, UIBDiffusion: Universal Imperceptible Backdoor Attack for Diffusion Models

2025 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) (*Selected as highlight = 3%*)

B. Zhao, Z. Yu, S. Lan, Y. Cheng, A. Anandkumar, Y. Lao and J. Alvarez, Fully Attentional Networks with Self-emerging Token Labeling

2023 IEEE/CVF International Conference on Computer Vision (ICCV)

B. Zhao and Y. Lao, CLPA: Clean-Label Poisoning Availability Attacks Using Generative Adversarial Nets

Thirty-Sixth AAAI Conference on Artificial Intelligence (AAAI) (*Acceptance Rate = 15%*)

B. Zhao, L. Qiu and Y. Lao, Data-Driven Feature Selection Framework for Approximate Circuit Design

IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD)

A. Wang, B. Zhao and Y. Lao, Neural Network Fault Attacks Detection Using Gradient-Based Test Vector Generation

60th ACM/IEEE Design Automation Conference (DAC)

B. Zhao and Y. Lao, Towards Class-Oriented Poisoning Attacks Against Neural Networks

2022 IEEE Winter Conference on Applications of Computer Vision (WACV)