

# BINGYIN ZHAO

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## ABOUT ME

- ▷ AI researcher and engineer with first-author papers in CVPR, ICCV, AAAI
- ▷ Proficient coding in Python and PyTorch
- ▷ Experience designing and training neural networks at fast-paced teams
- ▷ Research interested in Generative AI, Computer Vision and Trustworthy AI

## EXPERIENCE

### National University of Singapore

Research Fellow

[Singapore](#)

Oct. 2024 – Now

- Research on tabular univariate / multivariate and relational time series data generation.
- Research on tabular foundation 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.
- Design and develop a general AI model for all-kinds tabular data generation (e.g., single table, relational table).
- Design and develop tabular foundation models.

### 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.

## 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) (Acceptance Rate = 22%)

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)

## SKILLS

### Knowledge

Deep learning, Computer Vision, Adversarial/Robust machine learning, Model compression

### Language & Tool

Python, Pytorch, TensorFlow/Keras, Numpy, Scikit-learn, Pandas, Vim, Docker, Git, Shell,  $\LaTeX$