

# BINGYIN ZHAO

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## ABOUT ME

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- ▷ 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 interests in Generative AI, Computer Vision and Trustworthy AI

## EXPERIENCE

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### 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

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### 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

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Y. Han\*, B. Zhao\*, R. Chu, F. Luo, B. Sikdar and Y. Lao, **UIDiffusion: 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

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### 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,  $\LaTeX$