

BINGYIN ZHAO

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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

Pixocial

Applied Scientist

[Singapore](#)

Jun. 2025 – Now

- Product development and research on image/video generation/editing.

National University of Singapore

Research Fellow

[Singapore](#)

Oct. 2024 – Jun. 2025

- Research on AIGC, LLM, diffusion models and fractal generative models.
- Supervise Ph.D. students for research on the privacy and security of generative models.
- Design and implement the first generation conditional time-series tabular generative model for Betterdata.

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 an ICCV paper and filed one US patent.
- Received a full-time offer as a Senior Systems Software Engineer but could not return to the US due to an unexpected visa issue.

Clemson University

Research Assistant

[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, **UIDiffusion: 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)

PATENT

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

US Patent App. 18/542,423