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RESEARCH FOCUS

Deep Learning: Adversarial Machine Learning, Deep Model Compression, Computer Vision

EDUCATION

Ph.D. in CSE, Michigan State University	Advisor: Sijia Liu	Aug. 2022 – Now
B.Eng. in Automation, Tsinghua University	Rank: Top 20%	Aug. 2018 – July. 2022

WORKING EXPERIENCE

Research Intern in [Tsinghua Statistical Artificial Intelligence & Learning](#) Group, Beijing
Supervisor: [Jun Zhu](#) June. 2021 – Dec. 2021

PUBLICATION

- [1] **A. Chen**, Y. Yao, P. Chen, Y. Zhang, S. Liu, [Understanding and Improving Visual Prompting: A Label-Mapping Perspective](#), *CVPR'2023 submitted*.
- [2] **A. Chen**, P. Lorenz, Y. Yao, P. Chen, S. Liu, [Visual Prompting for Adversarial Robustness](#), *NeurIPS'22 ML Safety Workshop*.

PROJECT

Advancing Visual Prompt Technique

Supervisor: [Sijia Liu](#) (MSU) Collaborator: [Pin-Yu Chen](#) (IBM)

- Devise a novel iterative label mapping method for visual prompting which brings significant accuracy and interpretability improvements.
- Leverage visual prompting to improve test-time robustness.
- Explore connections between class-wise prompts and backdoor attack.
- **Publication:** [\[1, 2\]](#)

Uncertainty Calibration for Image Classification

Supervisor: [Jun Zhu](#) (Tsinghua) Collaborator: [Zhijie Deng](#) (Tsinghua)

- Leverage model-based bayesian learning to improve calibration.
- Leverage augmentation-based methods to improve calibration.

SKILL

- Excellent in Python, PyTorch for over 3 years; Familiar with C++, Git, Shell

HONOR

- **Entrepreneurship Excellence Award** by Qingshan Capital, 2021.
- **Academic Excellence Scholarship** of Tsinghua University, 2019.
- **Chinese University Entrance Exam Rank 0.01%** of Sichuan Province, 2018.
- **Chinese Chemistry Olympics 1st Prize** of Sichuan Province, 2017.

SERVICE

- **Reviewers** of ICML'22, KDD'22, ICASSP'22.