

Education

- 2023–2025 **Cornell University**,
Master of Science in Computer Science, Advisor: Professor Bharath Hariharan.
- 2020–2023 **Cornell University**,
Bachelor of Engineering in Biological Engineering, Minor in Computer Science, GPA 3.93/4.3.
- 2018–2020 **Zhejiang University**,
Bachelor of Engineering in Agriculture Engineering (Joint Program), GPA 3.7/4.0.

Research Interests

Building cost-efficient and reliable AI models with practical use in vision, language, and beyond.

Publications

- 2024 **AllClear: A Comprehensive Dataset and Benchmark for Cloud Removal in Satellite Imagery**, Hangyu Zhou*, Chia-Hsiang Kao*, Cheng Perng Phoo, Utkarsh Mall, Bharath Hariharan, Kavita Bala, *NeurIPS 2024 Datasets and Benchmarks Track*.

Preprints

- 2024 **Blind Shuffling and Superposition for Better Multi-Model Compression**, Hangyu Zhou, Aaron Gokaslan, Volodymyr Kuleshov, Bharath Hariharan, *In Submission*.
- 2023 **RaconCap: Contextual Image Captioning with Retrieval Augmentation**, Hangyu Zhou, Bharath Hariharan, *Work in Progress*.

Experience

- Jun 2022–Present **Research Assistant**, *Cornell University*.
- Mentored by Professor Bharath Hariharan.
 - Conducted research with Professor Kavita Bala and Professor Volodymyr Kuleshov.
 - Working on vision and machine learning, with a recent focus on remote sensing and modular models.
- Aug–Dec 2022 **Research Assistant**, *Cornell University*.
- Mentored by Professor Yu Jiang.
 - Developed RGB-D video analysis system to measure the internode length of tomato plants.
- 2018–2019 **Project Team Lead**, *Zhejiang University*.
- Led a project team in the National Excellence Program for Talent in Agriculture and Forestry.
 - Developed a wind-resistant solid fertilizer sprayer for unmanned airboats (Chinese patent ZL 201910859227.4).

Teaching Experience

- Jan 2023–Present **Teaching Assistant**, *Cornell University*.
- SoNIC Summer Research Workshop (Summer 2024).
 - CS 4701 Practicum in Artificial Intelligence (Fall 2024).
 - CS4789/5789 Introduction to Reinforcement Learning (Spring 2024).
 - CS4780/5780 Introduction to Machine Learning (Fall 2023).
 - CS4670/5670 Introduction to Computer Vision (Spring 2023).

Honors & Awards

- 2022 **Bowers Undergraduate Research Experience (BURE)**, *Cornell University*.
- 2022 **Tau Beta Pi Engineering Honor Society**, *New York Delta Chapter*.
- 2019 **The Third Prize Scholarship**, *Zhejiang University*.