Hangyu Zhou

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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 3.63/4.0.

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.*