

Yaoxin JIANG

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EDUCATION

Engineering Undeclared, The Grainger College of Engineering, UIUC, Urbana, IL

Aug. 2025 – Present

- GPA: 4.00 / 4.00 — Dean's List, Fall 2025 & Spring 2026, nine A⁺ and four A grades
- Taken: Calculus III (MATH 241) A⁺, Linear Algebra (MATH 257) A⁺, Discrete Structures (CS 173) A, ECE 120 A⁺
- In progress: Intro Electronics (ECE 110), Differential Eqns (MATH 285), Data Structures (CS 225), Robotics Project (ECE 398)

SKILLS

Programming Languages: C++ (proficient), Python (proficient), Java, Fortran, Kotlin

Tech Stack: PyTorch, NumPy (experienced), Git (experienced), LaTeX (experienced), Docker, Linux, Web Scraping

PUBLICATIONS

Seeing What Is Actually There: PriVE-Bench & PriVE-Tools for Counterfactual Evaluation of VLMs, 2026

*Authors: Jingyu Sun, Jiachen Tu, Yuyang Xue, **Yaoxin Jiang**, et al. (11 authors)*

- Co-developed PriVE-Bench, a benchmark that tests whether VLMs reason from visual evidence or priors
- Designed paired original and counterfactual images to separate genuinely grounded answers from prior-driven errors
- Introduced PriVE-Tools, testing whether visual aids like bounding boxes, crops, and zoom panels improve grounding
- Evaluated open- and closed-source models, showing visual-evidence tools help selectively but do not fix prior bias
- **Accepted to EMNLP (Empirical Methods in Natural Language Processing) 2026 Main Conference**

Underground concrete pipe crack damage monitoring by the fuzzy analysis of microseism, 2024

Proj. Mentor: Kai Tao, College of Automation & Artificial Intelligence, Nanjing University of Posts and Telecommunications

- Developed a microseismic method that uses fuzzy analysis to separate crack signatures from noise in underground pipes
- Tested the proposed method with lab experiments and received a 98% accuracy in identifying pipe cracks
- ***Published in the Measurement Science and Technology (SCI Indexed), 2024**

TEAM COMPETITIONS

Team NTR, New Trends in Image Restoration and Enhancement workshop (NTIRE), 2026

- Submitted solutions across 41 tracks of the NTIRE 2026 workshop at CVPR (Computer Vision and Pattern Recognition)
- Pretrained a generative image-restoration model to denoise corrupted images with synthetic noise
- Fine-tuned the pretrained model on actual noisy data with estimated noise levels for multiple tracks
- Achieved top-10 finishes across multiple tracks, including 5th place in *Joint Denoising and Low-Light Enhancement*
- **Co-authored challenge report papers for qualifying tracks, published in CVPR 2026 Workshop Proceedings**

Team TerraGlide, HackIllinois John Deere Mechathon Track, 2026

- Built a sand leveler with a front dozer to level the sand and a rear grader to clear tire tracks within 36 hours
- Utilized Parallel Linkage Design, Passive Pressure Design and an extra motor driver to control the dozer and grader
- Customized the UI design to support multiplatform control, fail-safe emergency stop, and autonomous feature
- Achieved the highest leveling-performance and presentation scores and was awarded **First place overall**

CLASS PROJECTS

CS 124H: Automated Course Schedule Optimizer for UIUC Students, 2025

- Built app that creates conflict-free schedules via DFS and ranks them by professor ratings, walking distance, and difficulty
- Scraped RateMyProfessors data and integrated the Google Maps API with the UIUC course catalog using Python and Flask

* Tao, K., & Jiang, Y. (2024). Underground concrete pipe crack damage monitoring by the fuzzy analysis of microseism. *Measurement Science and Technology*, 35(12), 126122. <https://doi.org/10.1088/1361-6501/ad76cd>