

# ZHENXIANG JIANG

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*AI & Computer Vision Researcher/Engineer with 3+ years of experience in deep learning R&D and deployment. Author of papers at AAAI, CVPR and ACM conferences. Skilled in a wide range of AI and development technical stacks. U.S. Permanent Resident, available immediately for full-time roles nationwide in the U.S.*

## PROFESSIONAL EXPERIENCE

### Learning and Vision Lab, ECE Dept., National University of Singapore

Singapore

Research Assistant, Supervisor: Prof. Xinchao Wang

August 2023–February 2025

- Completed a diverse range of computer vision tasks, from low-level image processing to high-level scene understanding, enhancing the lab's research capabilities.
- Co-led a high-resolution non-homogeneous dehazing project that ranked 4th out of 100+ result submissions, with the project report published in CVPR Workshop 2023.
- Played a key role in a long-term XAI project in collaboration with Singapore's largest national defense R&D organization, focusing on the interpretation and explainability of detection and classification models; successfully delivered two phases of product development.
- Contributed significantly to two cutting-edge research projects—GFlow and C4D—focused on 4D dynamic scene reconstruction and understanding. In these projects, I designed and developed key modules, camera-world coordinate conversion, interactive 3D/4D visualization, and downstream tasks and evaluation metrics, which led to the publication of two high-quality papers (AAAI 2025 and arXiv).

### Temasek Laboratories, National University of Singapore

Singapore

Research Assistant, Supervisor: Dr. Sunan Huang

September 2023–April 2024

- Led the research and development of a high-frequency drone detection module, enhancing the on-board drone tracking system's accuracy and reliability.
- Created a fully labelled event camera drone detection dataset by integrating three fully or semi-labelled drone detection frame datasets with one unlabelled lab-collected event dataset, facilitating more accurate drone detection in research projects.

### Machine Intelligence Lab, College of Computer Science, Sichuan University

Chengdu, China

Research Assistant, Supervisor: Prof. Yuanyuan Chen

March 2022–June 2023

- Initiated and conducted research on facial expression recognition under face mask occlusion; developed a seven-class facial expression recognition dataset and published the findings at ACM ICCAI 2023, where the work received the Best Presentation Award.
- Led research on weakly supervised 3D human pose estimation, developing a state-of-the-art network (WS-GCN) that integrates 2D-to-3D conversion, non-local structures, bone length constraints, and weak supervision with a robust GCN framework, resulting in a publication at ACM ICCAI 2024.

### Chengdu Yinlaiyinwang (Convenient Printing) Technology Co., LTD

Chengdu, China

Founder, CEO

November 2020–July 2022

- Led a team of 10 and successfully developed an intelligent online printing system called Yinlaiyinwang, transforming traditional offline printers into internet-connected smart devices.
- Established an on-campus experience store that served over 100,000 students and offered more than 15 part-time job opportunities in campus.
- Earned multiple entrepreneurship awards at both the college and university levels.

## EDUCATION

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### National University of Singapore (Top 1 in Singapore, QS World Rank 8)

Master of Science in Computer Engineering,  
Specialization: Machine Intelligence and Application | GPA: 4.69/5.00

Singapore

August 2023–January 2025

### Sichuan University (Top 15 in China)

Bachelor of Engineering in Artificial Intelligence | GPA: 3.80/4.00  
Top Graduate of Sichuan Province (Top 4%) | Graduated as Valedictorian

Chengdu, China

September 2019–June 2023

## SELECTED PROJECTS

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### Recommendation Site for Stock Investment based on LSTM

Singapore

Team Leader, NUS School of Computing Summer Workshop 2022

May 2022–July 2022

- Used LSTM for online training and predicting the price of each stock, utilized Vue to visualize on the website and interact with the user, and scored an A in AI/ML for the Workshop Financial Service Track.

### Face Recognition System against Poisoning Attacks

Chengdu, China

Student Innovation and Entrepreneurship Training Program, Sichuan University

September 2020–July 2021

- Designed a defense mechanism using Deep K-NN to detect and filter poisoned samples during training, enhancing the robustness of face recognition systems against adversarial data injection.

### 3D Human Whole Body Rehabilitation Assessment System Based on OpenPose

Chengdu, China

Student Innovation and Entrepreneurship Training Program, Sichuan University

September 2020–July 2021

- Developed a remote rehabilitation assessment system using OpenPose and deep learning to evaluate patients' movements via video, enabling accessible at-home physical therapy monitored by clinicians.

## SKILLS

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- Programming Languages:** Python (Advanced), SQL (Advanced), C++ (Proficient), Matlab (Proficient), CudaC (Proficient), Java (Intermediate), Shell Scripting (Intermediate)
- Libraries & Frameworks:** PyTorch (Advanced), NumPy (Advanced), Pandas (Advanced), Matplotlib (Proficient), Scikit-Learn (Proficient), OpenCV (Proficient), TensorBoard (Familiar), LaTeX (Familiar)
- Tools & Platforms:** Linux (Advanced), MySQL (Advanced), Git (Advanced), Docker (Proficient), FastAPI (Proficient), Nginx (Familiar), Vue (Familiar), GitHub Actions (Familiar)
- Languages:** English (Fluent), Mandarin Chinese (Native)

## PUBLICATIONS

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- Wang, S., **Jiang, Z.**, Yang, X., & Wang, X. (2025). C4D: 4D Made from 3D through Dual Correspondences. (ICCV 2025 Submitted)
- Wang, S., Yang, X., Shen, Q., **Jiang, Z.**, & Wang, X. (2024). GFlow: Recovering 4D World from Monocular Video. arXiv preprint arXiv:2405.18426. (AAAI 2025 Poster Presentation)
- Jiang, Z.**, Chen, Y. (2024, April). WS-GCN: Integrating GCN with Weak Supervision for Enhanced 3D Human Pose Estimation. In *Proceedings of the 2024 10th International Conference on Computing and Artificial Intelligence* (pp. 6-13).
- Ancuti, C. O., Ancuti, C., Vasluianu, F., ... , Wu, Y., **Jiang, Z.**, Liu, S., Yang, X., Jing, Y., ... & Busch, C. (2023). NTIRE 2023 HR nonhomogeneous dehazing challenge report. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition* (pp. 1808-1825).
- Jiang, Z.** (2023, March). A Novel Seven-Class Facial Expression Recognition Method With Face Mask. In *Proceedings of the 2023 9th International Conference on Computing and Artificial Intelligence* (pp. 178-184).