

# CHUNJIANG GE 葛春江

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## RESEARCH INTEREST

- I am interested in Computer Vision, **Multimodal Large Language Models and Vision Generative Models**. I have 10 papers in total and 3 of them are my first author. My work has been **cited by 702 times**.
- I foresee the potential success in **Unified Understanding and Generation model** (*e.g.*, Transfusion). Hence, I have recently been seeking to build such a unified model.

## EDUCATION EXPERIENCE

**Ph.d Student, Tsinghua University** 2020.08 - 2026.06 (expected)

- **Major:** Control Science and Engineering. Department of Automation. Advised by Prof. Shiji Song and Prof. Gao Huang.

**B.S., Tsinghua University** 2016.08 - 2020.06

- **Major:** Mathematics and Physics. Department of Physics.

## MULTIMODAL LARGE LANGUAGE MODELS

- **ConvLLaVA: Hierarchical Backbones as Visual Encoder for Large Multimodal Models**  
**Chunjiang Ge**, Sijie Cheng, Ziming Wang, Jiale Yuan, Yuan Gao, Jun Song, Shiji Song, Gao Huang, Bo Zheng.
- **LLaVA-UHD: An LLM Perceiving Any Aspect Ratio and High-Resolution Images**  
Ruyi Xu, Yuan Yao, Zonghao Guo, Junbo Cui, Zanlin Ni, **Chunjiang Ge**, Tat-Seng Chua, Zhiyuan Liu, Maosong Sun, Gao Huang.  
European Conference on Computer Vision (ECCV) **Cited by 51 times**.

## SELECTED WORK ON TRADITIONAL COMPUTER VISION

- **Domain Adaptation via Prompt Learning**  
**Chunjiang Ge**, Rui Huang, Mixue Xie, Zihang Lai, Shiji Song, Shuang Li, Gao Huang.  
Transactions on Neural Networks and Learning Systems (TNNLS, IF: 10.4) **Cited by 147 times**.
- **On the Integration of Self-Attention and Convolution**  
Pan, Xuran, **Chunjiang Ge**, Rui Lu, Shiji Song, Guanfu Chen, Zeyi Huang, and Gao Huang.  
IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2022) **Cited by 394 times**.
- **Causal Intervention for Human Trajectory Prediction with Cross Attention Mechanism**  
**Chunjiang Ge**, Shiji Song and Gao Huang.  
AAAI Conference on Artificial Intelligence (AAAI 2023)
- **Large Scale Air Pollution Prediction with Deep Convolutional Networks**  
Gao Huang\*, **Chunjiang Ge\***, Tianyu Xiong, Shiji Song, Le Yang, Baoxian Liu, Wenjun Yin and Cheng Wu.  
Science China Information Sciences (IF: 8.8)
- **Demystify Mamba in Vision: A Linear Attention**  
Dongchen Han, Ziyi Wang, Zhuofan Xia, Yizeng Han, Yifan Pu, **Chunjiang Ge**, Jun Song, Shiji Song, Bo Zheng, Gao Huang.  
Advances in Neural Information Processing Systems (NeurIPS 2024).

## ACADEMIC SERVICES

I am honored to be reviewers for: NIPS, CVPR, ECCV, ICCV, AAAI and IEEE TIP.

## AWARDS

National Scholarship, Ministry of Education of China	2024
Comprehensive Excellence Scholarship (First Class), Tsinghua University	2023&2022
Outstanding Oral Presentation, Doctoral Students Forum, Tsinghua University	2023