



SHAO JIE

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[Homepage](#) | [Google Scholar](#) | [Linkedin](#) | [Github](#)

RESEARCH INTERESTS

Object detection, Long-tail recognition, Diffusion model and LLM.

EDUCATION

M.S. in Computer Science and Technology | [LAMDA](#) led by [Zhi-Hua Zhou](#)

Nanjing University

Sept. 2022 – Now

Nanjing, China

Advisor: [Jianxin Wu](#) (program chair of CVPR 2024)

B.E. in Electrical Engineering | [Qian Xuesen's Class](#)

Xi'an Jiaotong University

Sept. 2018 – July. 2022

Xi'an, China

- GPA: 96.30/100

- Rank: 1/79

Class for Gifted Teenagers

Xi'an Jiaotong University

Sept. 2016 – July 2018

Xi'an, China

- Rank: 10/180

RESEARCH EXPERIENCE

Intern at [Shanghai Artificial Intelligence Laboratory](#) | [OpenGVLab](#) led by [Yu Qiao](#)

Primarily working on vision language model

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Shanghai, China

- Mentor: [Yuwen Xiong](#)

- Vision-language autoregressive model for generation and understanding

Intern at [Microsoft Research Asia](#) | [AI for Science Group](#) led by [Tieyan Liu](#)

Primarily working on large language model and graph neural network

March. 2023 – July 2023

Remote

- Mentor: [Lijun Wu](#)

- Evaluation and analysis of large language model

- Regression tasks in scientific domain based on Graphormer

Intern at [Microsoft Research Asia](#) | [Intelligent Multimedia Group](#) led by [Yan Lv](#)

Primarily working on self-distillation, regularization and action recognition backbone

Sept. 2021 – July 2022

Beijing, China

- Mentor: [Chuanxin Tang](#)

- Self-Distillation from Instant Information

- DropToken for Transformer

- Spatial-temporal Feature Learning Based on Triple 2D Decomposition

Research Assistant of [Cambridge University](#)

Detecting the insulators and verifying their status based on Faster R-CNN

Sept. 2020 – July 2021

Remote

- Supervisor: [Pietro Liò](#)

Quantization without Tears

Minghao Fu, Hao Yu, Jie Shao, Junjie Zhou, Ke Zhu, Jianxin Wu

CVPR 2025 | [arxiv: 2411.13918](#)

SynerGen-VL: Towards Synergistic Image Understanding and Generation with Vision Experts and Token Folding

Hao Li=, Changyao Tian=, Jie Shao=, Xizhou Zhu=, Zhaokai Wang, Jinguo Zhu, Wenhan Dou, Xiaogang Wang, Hongsheng Li, Lewei Lu, Jifeng Dai

CVPR 2025 | [arxiv: 2412.09604](#)

DiffuLT: Diffusion for Long-tail Recognition Without External Knowledge

Jie Shao, Ke Zhu, Hanxiao Zhang, Jianxin Wu

NeurIPS 2024 | [arxiv: 2403.05170](#) | [Report](#)

Rectify the Regression Bias in Long-Tailed Object Detection

Ke Zhu, Minghao Fu, Jie Shao, Tianyu Liu, Jianxin Wu

ECCV 2024 | [arxiv: 2401.15885](#) | [Report](#)

Diffusion Product Quantization

Jie Shao, Hanxiao Zhang, Jianxin Wu

In submission | [arxiv: 2411.12306](#) | [Report1](#) | [Report2](#)

InternVL3: Exploring Advanced Training and Test-Time Recipes for Open-Source Multimodal Models

InternVL Teams

[arxiv: 2504.10479](#)

Examining User-Friendly and Open-Sourced Large GPT Models: A Survey on Language, Multimodal, and Scientific GPT Models

Kaiyuan Gao=, Sunan He=, Zhenyu He=, Jiacheng Lin=, QiZhi Pei=, Jie Shao=, Wei Zhang=

[arxiv: 2308.14149](#)

Mus2Cov: Diffusion-Driven Generation of Album Covers Directly from Music

Jie Shao, Hanxiao Zhang

In submission

Coaching One-on-One: Detect One Object Better, Hurt No One Else

Jie Shao, Ke Zhu, Jianxin Wu

In submission

Low-rank Attention Side-Tuning for Parameter-Efficient Fine-Tuning

Ningyuan Tang, Minghao Fu, Ke Zhu, Jie Shao, Jianxin Wu

In submission

OTHER EXPERIENCE

Reviewer of [TMLR](#), [ACM MM 2024](#), [TPAMI](#), [CVPR 2025](#)

Teaching Assistant of GECAcademy

In Charge of AI-related lectures

Sept. 2021 – Nov. 2022

Remote

Attendee of "Artificial Intelligence and Industry 4.0"

Attending AI-related lectures in Oxford and Cambridge

Summer 2019

London, UK

HONORS AND AWARDS

Excellent Graduate Student Xian Jiaotong University	2022
Qiu Changrong Scholarship Xian Jiaotong University	2021
Siyuan Electrical Scholarship Xian Jiaotong University	2020
Meritorious Winner Prize Mathematical Contest in Modeling	2019
Merit Student Xian Jiaotong University	2019, 2020, 2021