



# SHAO JIE

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## RESEARCH INTERESTS

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

## EDUCATION

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- M.S. in Computer Science and Technology** | [LAMDA](#) led by [Zhi-Hua Zhou](#) Sept. 2022 – Now  
Nanjing University Nanjing, China  
Advisor: [Jianxin Wu](#) (program chair of CVPR 2024)
- B.E. in Electrical Engineering** | [Qian Xuesen's Class](#) Sept. 2018 – July. 2022  
Xi'an Jiaotong University Xi'an, China
  - GPA: 96.30/100
  - Rank: 1/79
- Class for Gifted Teenagers** Sept. 2016 – July 2018  
Xi'an Jiaotong University Xi'an, China
  - Rank: 10/180

## RESEARCH EXPERIENCE

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- Intern at Microsoft Research Asia** | [AI for Science Group](#) led by [Tieyan Liu](#) March. 2023 – July 2023  
Primarily working on large language model and graph neural network 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](#) Sept. 2021 – July 2022  
Primarily working on self-distillation, regularization and action recognition backbone 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** Sept. 2020 – July 2021  
Detecting the insulators and verifying their status based on Faster R-CNN Remote
  - Supervisor: [Pietro Liò](#)

## RESEARCH PAPER (= INDICATES EQUAL CONTRIBUTION)

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- Mus2Cov: Diffusion-Driven Generation of Album Covers Directly from Music**  
[Jie Shao](#), [Hanxiao Zhang](#)  
In submission

## **DiffuLT: How to Make Diffusion Model Useful for Long-tail Recognition**

Jie Shao, Ke Zhu, Hanxiao Zhang, Jianxin Wu

In submission | [arxiv: 2403.05170](#) | [Report](#)

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

Jie Shao, Ke Zhu, Jianxin Wu

In submission

## **Rectify the Regression Bias in Long-Tailed Object Detection**

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

In submission | [arxiv: 2401.15885](#) | [Report](#)

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

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

In submission

## **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](#)

## OTHER EXPERIENCE

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### **Reviewer of [TMLR](#)**

#### **Teaching Assistant of GEC Academy**

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

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**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