# Chongjie Si

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Shanghai, China

## EDUCATION

- **Shanghai Jiao Tong University** — *Sept. 2022 - Present*
  *Ph.D, Artificial Intelligence, supervised by Prof. Wei Shen* — Shanghai, China
- **Southeast University** — *Sept. 2018 - Jun. 2022*
  *BSc, Chien-Shiung Wu College, Artificial Intelligence, rank 1/22* — Nanjing, China

## PUBLICATIONS

P = PREPRINT, C = CONFERENCE, J = JOURNAL

### Book

- 2025, Wei Shen, **Chongjie Si**, Chen Yang, Yong Yu. ***Hands on Computer Vision***. Posts & Telecoms Press.

### Journal or Conference

**[P]** 2025. **Chongjie Si**, Xuankun Yang, Muqing Liu, Yadao Wang, Xiaokang Yang, Wenbo Su, Bo Zheng, Wei Shen. **Weight Spectra Induced Efficient Model Adaptation.**

**[P]** 2025. **Chongjie Si***, Yidan Cui*, Fuchao Yang, Xiaokang Yang, Wei Shen. **Revisiting Sparsity Constraint Under High-Rank Property in Partial Multi-Label Learning.**

**[P]** 2025. **Chongjie Si**, Jingjing jiang, Xiaokang Yang, Wei Shen. **Unveiling the Mystery of Weight in Large Foundation Models: Gaussian Distribution Never Fades**.

**[P]** 2025. **Chongjie Si**, Kangtao Lv, Jingjing Jiang, Yadao Wang, Yongwei Wang, Xiaokang Yang, Wenbo Su, Bo Zheng, Wei Shen. **NAN: A Training-Free Solution to Coefficient Estimation in Model Merging.**

**[P]** 2025. **Chongjie Si**, Zhiyi Shi, Yadao Wang, Xiaokang Yang, Susanto Rahardja, Wei Shen. **MAP: Revisiting Weight Decomposition for Low-Rank Adaptation.**

**[P]** 2025. **Chongjie Si**, Zhiyi Shi, Xuehui Wang, Yichen Xiao, Xiaokang Yang, Wei Shen. **Generalized Tensor-based Parameter-Efficient Fine-Tuning via Lie Group Transformations.**

**[P]** 2025. **Chongjie Si***, Yidan Cui*, Fuchao Yang, Xiaokang Yang, Wei Shen. **Why Can Accurate Models Be Learned from Inaccurate Annotations?**

**[C]** 2025, ICLR. **Chongjie Si***, Zhiyi Shi*, Shifan Zhang, Xiaokang Yang, Hanspeter Pfister, Wei Shen. **Unleashing the Power of Task-Specific Directions in Parameter Efficient Fine-tuning**.

**[C]** 2025, ICLR. **Chongjie Si***, Xuehui Wang*, Xue Yang, Zhengqin Xu, Qingyun Li, Jifeng Dai, Yu Qiao, Xiaokang Yang, Wei Shen. **Maintaining Structural Integrity in Parameter Spaces for Parameter Efficient Fine-tuning**.

**[P]** 2024. **Chongjie Si**, Xiaokang Yang, Wei Shen. **See Further for Parameter Efficient Fine-tuning by Standing on the Shoulders of Decomposition**.

**[P]** 2024. **Chongjie Si**, Xuehui Wang, Yan Wang, Xiaokang Yang, Wei Shen. **Appeal: Allow Mislabeled Samples the Chance to be Rectified in Partial Label Learning**.

**[C]** 2024, ECCV. **Chongjie Si**, Xuehui Wang, Xiaokang Yang, Wei Shen. **Tendency-driven Mutual Exclusivity for Weakly Supervised Incremental Semantic Segmentation**

**[C]** 2024, AAAI, Oral. **Chongjie Si**, Zekun Jiang, Xuehui Wang, Yan Wang, Xiaokang Yang, Wei Shen. **Partial Label Learning with a Partner**.

**[J]** 2023, TKDE. **Chongjie Si**, Yuheng Jia, Ran Wang, Min-Ling Zhang, Yanghe Feng, Chongxiao Qu. **Multi-label Classification with High-rank and High-order Label Correlations**.

**[C]** 2023, KDD, Oral. **Chongjie Si***, Yuheng Jia*, Min-ling Zhang. **Complementary Classifier Induced Partial Label Learning**.

## Work Experience

- **Alibaba Group[🌐]** *Mar. 2025 - Jun. 2025*
  *Research Intern* Hangzhou, China
  - LLM post-training.
  - Investigated efficient training strategies from the perspective of fully fine-tuning.
  - Explored model merging techniques to enhance the capabilities of foundation models without additional training.
  - Two research papers.
- **Xiaohongshu [🌐]** *Jun 2025 - Now*
  *REDstar Intern* Shanghai, China
  - LLM pre-training.
  - Explore efficient pre-training strategies through optimizer design, architecture choices, and model interpretability.

## Projects

- **Subspace Tuning**
  *A generalized framework for subspace tuning methods in parameter efficient fine-tuning.* [🐙]

## Honors and Awards

- **Doctoral National Scholarship (Top 1%)** *Oct. 2024*
  *Chinese Ministry of Education*
- **Outstanding Graduate Student** *Jun. 2022*
  *Southeast University*
- **ICM Finalist** *Apr. 2020*
  *COMAP*
- **National Scholarship (Top 1%)** *Oct. 2019*
  *Chinese Ministry of Education*
- **Model of Merit Student (Top 1%)** *Oct. 2019 & 2020*
  *Southeast University*

## Skills

- **Programming Languages:** Python, MATLAB, C++
- **Software & Tools:** PyTorch, OpenCV, LaTeX, PyQt5