

# Lingjie (Jason) Chen

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## 👤 SUMMARY

**Research Interests:** My research primarily focuses on using **Graph Network** to optimize the recommendation system.

**Relevant Courses:** Numerical Linear Algebra(A), Statistical Machine Learning (A), Time Series(A-), Convex Optimization(A), Computer Architecture(A), Algorithms and Data Structures(A), Database(A-).

## 🎓 EDUCATION

### Fudan University

*B.S. in Data Science*

Sep. 2021 - Jun. 2025 (expected)

*Shanghai, China*

- Major GPA: **3.84/4.0** (ranking **top 5** in the department); Overall GPA: 3.62/4.0

### University of California, Berkeley

*Exchange Student, Statistics*

Aug. 2023 - Jan. 2024

*California, USA*

## 📖 PUBLICATION

- [C3] **WAPITI: A Watermark for Finetuned Open-Source LLMs.**  
Lingjie Chen\*, Ruizhong Qiu\*, Siyu Yuan, Zhining Liu, Tianxin Wei, Hyunsik Yoo, Zhichen Zeng, Deqing Yang, Hanghang Tong  
Under review for ICML 2025. [\[Paper\]](#)
- [C2] **Llama Scope: Extracting Millions of Features from Llama-3.1-8B with Sparse Autoencoders.**  
Zhengfu He, Wentao Shu, Xuyang Ge, Lingjie Chen, Junxuan Wang, Yunhua Zhou, Frances Liu, Qipeng Guo, Xuanjing Huang, Zuxuan Wu, Yu-Gang Jiang, Xipeng Qiu  
Available on Arxiv [\[Paper\]](#)
- [C1] **“A good pun is its own reword”: Can Large Language Models Understand Puns?**  
Zhijun Xu, Siyu Yuan, Lingjie Chen, Deqing Yang  
EMNLP 2024. [\[Paper\]](#)

### IDEA Lab, University of Illinois Urbana-Champaign

*Research topics:* Watermark, Statistical Analysis, Model Intervention

Apr. 2024 – Present

*Illinois, USA*

*Advisor:* Prof. [Hanghang Tong](#)

- **Watermarking Fine-tuned Large Language Models[C3]**
  - Identified and validated the incompatibility between existing watermarking techniques and fine-tuned models.
  - Proposed a training-free, parameter-based watermarking method with thorough theoretical derivation.
  - Designed experiments to demonstrate the effectiveness and generalizability of our method.
  - Performed an in-depth analysis of our method, offering insights into its effectiveness.

### OpenMoss, Fudan University

*Research topics:* Software Engineering, LLM Interpretability

Jan. 2024 – Present

*Shanghai, China*

*Advisor:* Prof. [Xipeng Qiu](#)

- **Exploration of intrinsic and transferred multilingualism[C2]**
  - Synthesized custom datasets to investigate the model's ‘thinking state’ during multilingual processing.
  - Designed cross-SAE patching experiments to examine the relationships within the feature space of LLMs.
  - Explored the internal mechanisms of multilingual models, revealing meaningful internal processes.

### Shanghai Key Laboratory of Data Science

*Research topics:* Evaluation Methodology, Dataset

Dec. 2022 – Dec. 2023

*Shanghai, China*

*Advisor:* Prof. [Deqing Yang](#)

- **Evaluation of Large Language Models for Pun Understanding**[C1]
  - Conducted a systematic evaluation of eight different LLMs' capabilities in three pun-related tasks.
  - Designed and implemented novel pipelines for pun explanation and generation.
  - Improved the state-of-the-art performance of LLMs in pun understanding from 72% to 83%.

## 🔗 PROJECT PORTFOLIO (SELECTED)

<b>Sparse AutoEncoder Framework</b>	Jan. 2024 – Present
Founder & Developer. <a href="#">[Code]</a>	<i>Shanghai, China</i>
<ul style="list-style-type: none"> <li>• Provide a general codebase for conducting dictionary-learning-based mechanistic interpretability research</li> <li>• Provides tools for analyzing and visualizing the learned dictionaries.</li> </ul>	
<b>BERT-based Chinese QA English</b>	Oct. 2023 – Dec. 2023
Founder & Developer. <a href="#">[Code]</a>	<i>California, USA</i>
<ul style="list-style-type: none"> <li>• Evaluate the BERT-based model's performance on Chinese QA and provide a comparison with SOTA LLMs.</li> </ul>	
<b>Attendance Checking Miniprogram</b>	Mar. 2023 – Jun. 2023
Founder & Developer. <a href="#">[Code]</a>	<i>Shanghai, China</i>
<ul style="list-style-type: none"> <li>• Developed a WeChat Mini Program that enables attendance checks for both the teacher and student sides.</li> </ul>	

## 🏛️ ACADEMIC SERVICES

Reviewer International Conference on Learning Representations (**ICLR**), 2024, 2025  
 Reviewer Annual Meeting of the Association for Computational Linguistics (**ACL**), 2025  
 Reviewer Empirical Methods in Natural Language Processing (**EMNLP**), 2024

## 🏆 HONORS & AWARDS (SELECTED)

Fudan University Scholarship (Top 10%)	<b>2021-2024</b>
Sou-Bin Scholarship (Top-performing students in Shanghai)	<b>2019-2024</b>
Second Prize, CUMCM	<b>2024</b>

## 🔧 SKILLS

**Languages:** Mandarin(Native speaker), English(TOFEL L30 R30 W25 S28)  
**Programming:** Python, C/C++, L<sup>A</sup>T<sub>E</sub>X, MATLAB, Linux, R, SQL, Bash  
**Frameworks:** Pytorch, Numpy, Anaconda, MySQL, Git, OpenCV