

Yuchang Zhu (朱裕昌)

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RESEARCH INTERESTS

Large Language Models (LLMs), Graph Learning, Trustworthy AI (e.g., Fairness, Reliability, etc.).

EDUCATION



- **Sun Yat-sen University (SYSU)** 09/2022 - 06/2026 (Expected)
Ph.D. in Computer Technology
◦ Advisor: Prof. [Liang Chen](#).
◦ (1) Received 2024 National Scholarships (Top 0.4%); (2) Received First-class Scholarships.
- **South China Agricultural University (SCAU)** 09/2019 - 06/2021
M.S. in Vehicle Engineering
◦ Advisor: Prof. [Zuoxi Zhao](#).
◦ (1) Received First-class Scholarships; (2) Published Two Papers in Visual Measurement.
- **South China Agricultural University (SCAU)** 09/2015 - 06/2019
B.S. in Packaging Engineering
◦ (1) GPA: 4.05/5.00 (Top 8%); (2) Received First-class Scholarships.

SELECTED PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PREPRINT OR UNDER REVIEW

- [C.1] **Yuchang Zhu**, Huizhe Zhang, Bingzhe Wu, Jintang Li, Zibin Zheng, Peilin Zhao, Liang Chen, Yatao Bian. **Measuring Diversity in Synthetic Datasets**. *International Conference on Machine Learning (ICML)*, 2025.
- [C.2] **Yuchang Zhu**, Jintang Li, Yatao Bian, Zibin Zheng, Liang Chen. **One Fits All: Learning Fair Graph Neural Networks for Various Sensitive Attributes**. *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, 2024. [Oral]
- [C.3] **Yuchang Zhu**, Jintang Li, Zibin Zheng, Liang Chen. **Fair Graph Representation Learning via Sensitive Attribute Disentanglement**. *International World Wide Web Conference (WWW)*, 2024. [Oral]
- [C.4] **Yuchang Zhu**, Jintang Li, Liang Chen, Zibin Zheng. **The devil is in the data: Learning fair graph neural networks via partial knowledge distillation**. *ACM International Conference on Web Search and Data Mining (WSDM)*, 2024.
- [J.1] **Yuchang Zhu**, Jintang Li, Huizhe Zhang, Liang Chen, Zibin Zheng. **SaGIF: Improving Individual Fairness in Graph Neural Networks via Similarity Encoding**. *IEEE Transactions on Knowledge and Data Engineering (TKDE)* 2025.
- [J.2] **Yuchang Zhu**, Jintang Li, Liang Chen, Zibin Zheng. **Fairagg: Toward fair graph neural networks via fair aggregation**. *IEEE Transactions on Computational Social Systems (TCSS)*, 2024.
- [J.3] **Yuchang Zhu**, Yuan Huang, Yuanhong Li, Zhi Qiu, Zuoxi Zhao. **A smartphone-based six-dof measurement method with marker detector**. *IEEE Transactions on Instrumentation and Measurement (TIM)*, 2022.
- [P.1] **Yuchang Zhu**, Huazhen Zhong, Qunshu Lin, Haotong Wei, Xiaolong Sun, Zixuan Yu, Minghao Liu, Zibin Zheng, Liang Chen. **What Matters in LLM-generated Data: Diversity and Its Effect on Model Fine-Tuning**. 2025.
- [P.2] **Yuchang Zhu**, Huazhen Zhong, Qichao Wang, Haotong Wei, Xiaolong Sun, Zixuan Yu, Liang Chen, Zibin Zheng. **LLM-generated Data and Its Impact: A Survey**. 2025.

EXPERIENCE

- **Tencent-AI Lab**  03/2024 - 05/2025
Research Intern
◦ Developed LLM-generated Content Watermark Algorithm.
◦ Investigated on LLM-generated Data Diversity Evaluation and Tokenizer of Multimodal LLMs, Contributed to A Paper Accepted by ICML 2025 ([C.1]).
- **SYSU-School of Computer Science and Engineering**  06/2021 - 09/2022
Research Assistant
◦ Research on Graph Fairness Learning, Simultaneous Localization and Mapping.

RESEARCH SUMMARY

- **Graph Machine Learning: Graph Fairness Learning**

03/2022 - Present

- Explored the Potential Reasons of Graph Unfairness and Achieved Fair Aggregation ([J.2]).
- Improved the Fairness of Graph Neural Networks (GNNs) under Various Scenarios, Including Unknown Sensitive Attribute ([C.4]) and Multi-Sensitive Attribute ([C.2]).
- Proposed A Novel Framework to Achieve A Trade-off Between Fairness and Utility in GNNs ([C.3]).
- Improved the Fairness of GNNs at Individual Level ([J.1]).

- **LLMs and Multimodal LLMs: Trustworthy, Tokenizer**

03/2024 - Present

- Proposed A Novel Diversity Evaluation Method for LLM-generated Data ([C.1]).
- Explored the Impact of LLM-generated Data's Diversity on Next-generation Models ([P.1], [P.2]).
- Developed A Robust Watermark Method for LLMs to Mitigate Negative Impact of LLM-generated Data.
- Investigating Semantic-aware Tokenizers of Multimodal LLMs, Balancing Multimodal Understanding and Generation. (Ongoing Work)

HONORS AND AWARDS

- 2024 National Scholarship (Top 0.4% nationwide)
- 2021 Excellent Master's Thesis Award, SCAU
- 2019 Excellent Bachelor's Thesis Award, SCAU
- 2019 Excellent Undergraduate Graduate of SCAU (10/550)
- 2016 National Endeavor Scholarship