

Xingchen Zeng

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RESEARCH INTERESTS

I am committed to advancing multimodal large language models for practical application scenarios, especially in 1) data visualization and 2) human-computer interaction.

EDUCATION

Hong Kong University of Science and Technology, Guangzhou, China Sep 2023 — Current
PhD student in Data Science and Analytics, GPA: 4.13/4.30
supervised by Prof. Wei Zeng and Prof. Wei Wang

Central South University, Changsha, China Sep 2019 — June 2023
Bachelor of Engineering: Data Science and Big Data Technology (Graduate with various honors) GPA: 91.13/100
supervised by Prof. Jiazhi Xia

ACADEMIC EXPERIENCE

Hong Kong University of Science and Technology Guangzhou, China
Research Assistant Oct 2022 — June 2023
Visualization Group of Central South University Changsha, China
Research Intern Apr 2021 — Sept 2022

PUBLICATIONS

- **Xingchen Zeng**, Haichuan Lin, Yilin Ye, Wei Zeng. Advancing Multimodal Large Language Models in Chart Question Answering with Visualization-Referenced Instruction Tuning. *IEEE Transactions on Visualization and Computer Graphics* (In Proc. *IEEE VIS2024*), 2024.
- Yilin Ye, Shishi Xiao, **Xingchen Zeng**, Wei Zeng. ModalChorus: Visual Probing and Alignment of Multi-modal Embeddings via Modal Fusion Map. *IEEE Transactions on Visualization and Computer Graphics* (In Proc. *IEEE VIS2024*), 2024.
- **Xingchen Zeng**, Ziyao Gao, Yilin Ye, Wei Zeng. IntentTuner: An Interactive Framework for Integrating Human Intentions in Fine-tuning Text-to-Image Generative Models. In *Proceedings of the CHI Conference on Human Factors in Computing Systems*, 2024. <https://doi.org/10.1145/3613904.3642165>
- **Xingchen Zeng**, Haowen Zhou, Zhicong Li, Chenqi Zhang, Juncong Lin, Jiazhi Xia, Yanyi Yang, Xiaoyan Kui. iHELP: Interactive Hierarchical Linear Projections for Interpreting Non-Linear Projections. *Journal of Visualization*, 26(3): 631-648, 2023. <https://doi.org/10.1007/s12650-022-00900-4>

SERVICES

- **Review**: VINCI2024,
- **Volunteer**: GAMES2022, VINCI2023

REFERENCES

Prof. Wei Zeng

Assistant professor

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Scholar Profiles: Hong Kong University of Science and Technology (Guangzhou) — Google Scholar

Prof. Wei Wang

Professor

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Scholar Profiles: Hong Kong University of Science and Technology (Guangzhou) — Google Scholar

Prof. Jiazhi Xia

Professor

E-mail: xiajiazhi@csu.edu.cn

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