

Zhaohui Liang

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Education

University of Chinese Academy of Sciences

MS in CS | Advanced Interactive Technology Laboratory | Advised by Guihua Shan, Yang Wang
GPA: 3.75/4.0 | Research Interest: HCI, Visualization

Beijing

Sep. 2022 - June. 2025

Sichuan University

BS in CS with Honors | Visual Computing Lab | Mentored by Min Zhu
GPA: 3.70/4.0 | Research Interest: HCI, Visualization

Chengdu

Sep. 2018 - Jun. 2022

Publications and Manuscripts

- [1] **Zhaohui Liang**[†], Yonglin Chen[†], Naser Al Madi, Can Liu. “Desirable Unfamiliarity: Insights from Eye Movements on Engagement and Readability of Dictation Interfaces,” *under review for ACM CHI 2025, in second round (RR)*.
- [2] Nanyi Wang[†], **Zhaohui Liang**[†], Xipei Ren. “Exploring Emotional Responses of Different Users to Narrative and Divergent AI-Generated Content in Human-AI Co-Creation: Evidence from fNIRS,” *under review for Computer in Human Behavior*.
- [3] **Zhaohui Liang**[†], Xiaoyu Zhang[†], Kevin Ma, Zhao Liu, Xipei Ren, Kosa Goucher-Lambert, Can Liu. “StoryDiffusion: How to Support UX Storyboarding With Generative-AI,” *under review*. [\[Arxiv\]](#) [\[Github\]](#)
- [4] **Zhaohui Liang**, Guan Li, Ruiqi Gu, Yang Wang, Guihua Shan. “SampleViz: Concept based Sampling for Policy Refinement in Deep Reinforcement Learning,” *2024 IEEE 17th Pacific Visualization Conference (PacificVis)*, Tokyo, 2024, pp. 359-368. [\[Link\]](#) [\[Github\]](#)
- [5] **Zhaohui Liang**, Min Zhu, Lin Yao, Xiangkun Wang and Mengqi cao. “Survey of Visualization Methods on Academic Citation Information,” *Computer Science*, 2022, 49(04): 88-99. (in Chinese)

Academic Experience

ACM CHI conference on Human Factors in Computing Systems 2025

Reviewer

Remote

Oct. 2024 - Present

IEEE Pacific Visualization Symposium (PacificVis) 2024

Presentation

Tokyo

April. 2024

Research Projects

Investigating Gaze Patterns in Using Dictation Interfaces to Reduce Reading Cost (Leader)

City University of Hong Kong | Can Liu Colby College | Naser Al Madi

Remote

Mar. 2024 - present

- Designed and implemented five different dictation interfaces, optimized four distinct algorithms, and enabled rapid iteration of transcribed text.
- Designed experiments to collect gaze patterns in five dictation interfaces.
- Quantitatively analyzed users’ eye-tracking data, and visualized the analysis results.
- Conducted academic writing and summarized the key takeaways for improving the dictation interface.

Enhancing Storyboard Creation with LLM and Diffusion Model (Leader)

City University of Hong Kong | Can Liu University of California, Berkeley | Kosa Goucher-Lambert

Remote

June 2024 - Feb. 2024

- Implemented text-to-text and text-to-image generative models for storyboard creation.
- Designed a co-creation pipeline for storyboard creation, enabling collaboration between humans and AI.
- Conducted a user study to identify user-directed and AI-directed strategies, gaining insights into how users incorporate Generative AI into their workflows.

Interactive Policy Refinement and Explainability in Deep Reinforcement Learning (Leader)

University of Chinese Academy of Sciences | Guihua Shan

Beijing

Jan. 2022 - Apr. 2023

- Proposed a region-aware hierarchical reinforcement learning algorithm.
- Developed a reinforcement learning path planning visualization system focused on model interpretability.
- Designed and implemented user study to validate the system’s effectiveness in model optimization and user experience.

Investigating Users' Emotional Responses to AI-Generated Content with fNIRS device University of Chinese Academy of Sciences	<i>Beijing</i> Feb. 2024 - Now
Research on Visualization and Alignment of Multivariate Event Sequence Zhejiang University Yingcai Wu	<i>Hangzhou</i> Jun. 2021 - Aug. 2021
Research on Visualization in Academic Citation Data Sichuan university Min Zhu	<i>Chengdu</i> Oct. 2020 - Apr. 2021

Awards and Honors

Jun. 2023	Honorary Title: “Excellent Student of University of Chinese Academy of Sciences” top 10%	<i>Beijing</i>
Jun. 2022	Honorary Title: “Outstanding Graduate of Sichuan University”	<i>Chengdu</i>
Apr. 2021	Contest: Honorable Mention in “American College Mathematical Modeling Competition (MCM/ICM)”	
Oct. 2020	Scholarship: “Yu Zhang Excellence Scholarship ” top 5%	<i>Chengdu</i>

Technical Skills

Front-end Programming	React, Vue, TypeScript, HTML/CSS
Back-end Programming	Python, Node, GPT, Flask, Pandas, Sklearn, SQL
Data Visualization	D3, Vega-lite, Echarts
User Experience Skills	Quantitative Research, Qualitative Research, Experiment Design, Data Analysis, UX Design
Keywords	Generative AI, Dictation System, Visual Analytic System, Machine Learning, Prompt Engineering

References

- Can Liu
Ph. D, Associate Professor, at the School of Creative Media, City University of Hong Kong, Hong Kong
✉ canliu@cityu.edu.hk
- Kosa Goucher-Lambert
Ph. D, Assistant Professor, at Department of Mechanical Engineering, University of California, Berkeley
✉ kosa@berkeley.edu
- Naser Al Madi
Ph. D, Assistant Professor, at Department of Computer Science, Colby College
✉ nsalmadi@colby.edu
- Guihua Shan
Ph. D, Professor, at University of Chinese Academy of Sciences, Beijing
✉ sgh@cnic.cn
- Guan Li
Ph. D, Assistant Professor, at University of Chinese Academy of Sciences, Beijing
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- Yang Wang
Ph. D, Senior Engineer, at University of Chinese Academy of Sciences, Beijing
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- Min Zhu
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