

RESEARCH INTERESTS

My research interests are building interactive visual interfaces and empirically understanding the design space of **multi-directional human-AI team collaboration for data science**. I aim to bridge the gap between end-user group intentions and AI-generated content, with the goal of enhancing controllability and transparency in collaborations.

EDUCATION

- **PhD in Computer Science** University of Waterloo
Supervisors: Dr. Ana Crisan and Dr. Jian Zhao *Sep 2024 - Jun 2028 (Expected)*
 - **Teaching Assistant:** Data-Intensive Distributed Analytics, Human-Computer Interaction, Information Systems
 - **Funding:** Graduate Research Studentships; Graduate Teaching Assistantships, Prov-Doc Entrance Award
- **Master of Philosophy in Computational Media and Arts** Hong Kong University of Science and Technology
First Class Honours; Full Scholarship; Supervisor: Dr. Mingming Fan *Sep 2022 - Aug 2024*
 - **Teaching Assistant:** Human-Computer Interaction, Introduction to Data Science
 - **Funding:** Research Graduate Studentship
- **BSc in Computer Science** City University of Hong Kong
First Class Honours; Full Scholarship; Supervisors: Dr. Zhicong Lu and Dr. Can Liu *Aug 2018 - May 2022*
 - **Research Assistant:** Human-Computer Interaction, Natural language processing

PUBLICATIONS

- **Li Feng**, Jian Zhao, Anamaria Crisan. More Than the Sum of Its Parts: Mapping the Design Space of Multi-Human, Multi-Agent Collaboration in Exploratory Data Analysis. *Under Review*.
- **Li Feng**, Jian Zhao, Anamaria Crisan. IntentLint: Supporting Intent Scaffolding and Prompt-time Linting in Human-AI Collaborative Data Analysis *UIST'26* 
- **Li Feng**, Ryan Yen, Yuzhe You, Mingming Fan, Jian Zhao, Zhicong Lu. CoPrompt: Supporting Prompt Sharing and Referring in Collaborative Natural Language Programming. In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI), 2024. 
- Yu Zhang, Jingwei Sun, **Li Feng**, Cen Yao, Mingming Fan, Liuxin Zhang, Qianying Wang, Xin Geng, Yong Rui. Toward Designing a Generative Multi-agent System to Burst Filter Bubbles *CHI'24*. 
- Peiling Jiang, **Li Feng**, Fuling Sun, Haijun Xia and Can Liu. "Demonstrating 1D-Touch: NLP-Assisted Coarse Text Selection via a Semi-Direct Gesture" *UIST '23*. 
- **Li Feng**, Zeyu Xiong, Xinyi Li and Mingming Fan. "CoPracTter: Toward Integrating Personalized Practice Scenarios, Timely Feedback and Social Support into An Online Support Tool for Coping with Stuttering." *CHI'23*. 
- Ryan Yen, **Li Feng**, Brinda Mehra, Ching Christie PANG, Siying Hu and Zhicong Lu. "StoryChat: Designing a Narrative-Based Viewer Participation Tool for Live Streaming Chatrooms." *CHI'23*. 
- Zisu Li, **Li Feng**, Chen Liang, Yuru Huang and Mingming Fan. "Exploring The Opportunities of AR for Enriching Storytelling With Family Photos Among Grandparents and Grandchildren" Proceedings of ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 2023. 
- Peiling Jiang, **Li Feng**, Fuling Sun, Parakrant Sarkar, Haijun Xia, and Can Liu. 1D-Touch: NLP-Assisted Coarse Text Selection via a Semi-Direct Gesture. Proc. ACM Hum.-Comput. Interact. 7, ISS, Article 447 (Dec 2023). 
- Yuru Huang, Liyi Xu, You Zhou, Qiongyan Chen, Zhiqing Wu, **Li Feng**, and Mingming Fan. Toward Leveraging Augmented Reality (AR) for Enhancing Remote Intergenerational Communication in Cooking Scenarios. In Proceedings of the Eleventh International Symposium of Chinese CHI, 2023. 
- Can Liu, Siying Hu, **Li Feng** and Mingming Fan. "Typist Experiment: an Investigation of Human-to-Human Dictation via Role-play to Inform Voice-based Text Authoring." Proceedings of the ACM on Human-Computer Interaction (PACM HCI), 6, CSCW2, Article 199 (Nov. 2022) 

RESEARCH EXPERIENCE

- **Research Assistant at UW HCI Lab** Supervisor: Dr. Anamaria Crisan and Dr. Jian Zhao
Multi-directional human-AI collaboration for data science. Sep 2024 - current
- **Research Assistant at APEX Lab** Supervisor: Dr. Mingming Fan
Human-AI Collaboration, Agentic system for data analysis, Aging and Accessibility. Sep 2022 - Jun 2024
- **Research Assistant at DEER Lab** Supervisor: Dr. Zhicong Lu
Undergraduate thesis on narrative-based live streaming chatroom moderation tools and algorithms. Sep 2021 - Jun 2022
- **Research Assistant at ERFI Lab** Supervisor: Dr. Can Liu
Natural Language and Dictation interface. Developed an NLP-supported text selection interface. May 2021 - Jun 2022

PROFESSIONAL EXPERIENCE

- **Research Intern, Lenovo Research** Beijing
Jun 2023 - Sep 2023
I worked on a project investigating how an agentic system can help reduce information bias and polarization for social media users. I was responsible for system design, user study design, data analysis and paper writing. I proposed and led co-design workshops to engage real users in the development process, ensuring our solutions met their needs.
 - **Skills:** Study design, Web development (React), Data analysis
- **Social Media Operations Manager, HKUST Information Hub Public Affairs** Hong Kong
Sep 2022 - Jul 2024
I design and publish posts of the department events and news, and update the department websites. I lead and participated in several department-level events, including summer camp, collaboration meetups with hospitals and industry, and student seminars.
- **Technical Assistant, Department of Social Science** Hong Kong
Sep 2021 - Jun 2022
I was in charge of analyzing the data for a project on analyzing research articles about public policy. My job includes collecting data from several databases, analyzing data, and drafting the data analysis part of the paper.
- **Software Engineering Intern, Reasonable Software House Ltd.** Hong Kong
Jun 2021 - Mar 2022
I led ten versions of iterations of TalkKing, a social media application, where I proposed and implemented new functions, and collected and analyzed user feedback. I served as a full-stack developer and tester for the mobile application.
 - **Skills:** Web development (Xamarin, iOS, Android, React, C#), Database Maintenance (SQL), Testing
- **Information Technology Intern, Houxiong Education Technology Ltd.** Beijing
Jun 2019 - May 2020
I was responsible for developing and maintaining the institution's website and database. I took the initiative to create a resource-sharing website designed to guide students through this critical process. My web resource ultimately helped over 800 students make informed decisions about their academic futures, aligning their choices with their aspirations.

SCHOLARSHIP & AWARDS

- **WiCS Graduate Student Scholarship (3,000 CAD):** 2026
- **International Doctoral Student Award (61,680 CAD):** 2024-2028
- **Provost Doctoral Entrance Award(5,000 CAD) :** 2024-2025
- **University of Waterloo Graduate Scholarship (5,000 CAD):** 2024-2025
- **Research Graduate Studentship (432,000 HKD):** 2022-2024
- **Huawei Innovation Competition Second Prize (15,000 HKD):** 2022
- **Huawei Cloud APAC MindSpore Challenge Pathology Diagnosis 2021 Model Runner-up (30,000 HKD):** 2021
- **Huawei Cloud APAC MindSpore Challenge Pathology Diagnosis 2021 Pitching Winner (45,000 HKD):** 2021
- **City University of Hong Kong Mainland Student Full Tuition Scholarship:** 2018 - 2022
- **City University of Hong Kong Dean's List, College of Engineering:** 2019-2022

COMMUNITY LEADERSHIP

- **Student Volunteer:** CHIPLAY2023, ASSETS2023
- **Organizer:** Great Bay Area Pre-CHI conference, 2024
- **Volunteer:** CYEP(CityU-HK), Ferryman's Club (Hong Kong)
- **Reviewer:** SIGCHI 2023-2026, CSCW 2023, IEEEVIS 2025

SPEECH AND TALK

- **Multi-directional human-AI collaboration:** University of Waterloo AI Lab, Apr 2025
- **Leveraging AI for supporting people with speech disorders:** HCIX program (Hong Kong), Aug 2023