

YING LEI

ying_lei@sfu.ca ◇ Personal Website ◇ Google Scholar

EDUCATION

East China Normal University

2019 - 2023

Honors B.Eng. in Computer Science and Technology GPA: 3.51/4.00

Thesis: Interactive Storytelling Agents for Child Safety Education: Design, Implementation and Evaluation

Simon Fraser University

2024 - Now

Thesis-based MSc in Interactive Art and Technology GPA: 4.17/4.33

Supervisor: Carman Neustaedter, Committee Member: Alissa N Antle

RESEARCH EXPERIENCE

Shanghai Institute of AI Education, ECNU

2021-2023

Research Intern, Affective Computing, Social Computing

Advisor: Aimin Zhou, Yuling Sun

CSE, Hong Kong University of Science and Technology

2022

Research Intern, HCI Lab, Human-AI Collaboration

Advisor: Xiaojuan Ma

Institute of Software, Chinese Academy of Sciences

2023

Research Intern, HCI Lab, Interaction Design

Advisor: Teng Han

ACSP@Tsinghua University & University of Washington

2024

Research Intern, Human-centered AI, mHealth.

Advisor: Xuhai 'Orson' Xu

SIAT, Simon Fraser University

Now

Research Assistant, Connections Lab, Interaction Design.

Advisor: Carman Neustaedter

PUBLICATIONS

"AI Afterlife" as Digital Legacy: Perceptions, Expectations, and Concerns

Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (CHI '25 Honorable Mention)

Ying Lei, Shuai Ma, Yuling Sun, Xiaojuan Ma

FamilyCanvas: A Family Whiteboard Calendar Designed for Blended Families

Proceedings of 2025 Graphics Interface Conference (GI 2025 Poster)

Ying Lei, Neustaedter Carman

Unpacking ICT-supported Social Connections and Support of Late-life Migration: From the Lens of Social Convoys

Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24)

Ying Lei, Shuai Ma, Yuling Sun

Are You Really Sure: Understanding the Effects of Human Self-Confidence Calibration in AI-Assisted Decision Making

Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24)

Shuai Ma, Xinru Wang, Ying Lei, Chuhan Shi, Min Yin, Xiaojuan Ma

Understanding the Effects of Restraining Finger Coactivation in Mid-Air Typing: from a Neuromechanical Perspective

Proceedings of the 37th Annual ACM Symposium on User Interface Software and Technology (UIST '24)

Hechuan Zhang, Xuewei Liang, Ying Lei, Yanjun Chen, Zhenxuan He, Yu Zhang, Lihan Chen, Hongnan Lin, et al.

Who Should I Trust: AI or Myself? Leveraging Human and AI Correctness Likelihood to Promote Appropriate Trust in AI-Assisted Decision-Making

Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)

Shuai Ma, Ying Lei, Xinru Wang, Chengbo Zheng, Chuhan Shi, Ming Yin, and Xiaojuan Ma

OPO-FCM: A Computational Affection Based OCC-PAD-OCEAN Federation Cognitive Modeling Approach

IEEE Transactions on Computational Social Systems (IEEE TCSS '23)

Feng Liu, Han-Yang Wang, Si-Yuan Shen, Xun Jia, Jing-Yi Hu, Jia-Hao Zhang, Xi-Yi Wang, Ying Lei, et al.

LDM-EEG: A Lightweight EEG Emotion Recognition Method Based on Dual-stream Structural Scaling and Multiple Attention Mechanisms

Computer Science (Chinese Core Journal) 2023

Ying Lei, Feng Liu

[Under Review] A Study of Community Group Buying in China

[Under Review] WatchGuardian: Enabling User-Defined Personalized Just-in-Time Intervention on Smartwatch

SELECTED PROJECTS

Mind Catcher-Affective Computing based Edge-side Music Therapy System 2021 - 2022

Project Leader, design AI-assisted interactive systems (website/mobile/embedded)

National Key Fund (Rank: 3/667); Competition Prizes-National*3, Provincial*3, University*2.

JianZhen Net-Blockchain based Trusted Database System for China and Japan 2020 - 2021

Project Member, front-end website development (Vue.js)

Provincial-level Enterprise Project; Provincial-level prize*1.

SELECTED HONORS AND AWARDS

SFU Graduate Fellowship 2025

SFU FCAT Graduate Fellowship 2025

ACM CHI Best Paper Honorable Mention (Top 5%) 2025

Gary Marsden Travel Awards 2024

Shanghai Outstanding Graduates Award (Rank 1/117) 2023

Huaxin Scholarship (Top 1%) 2022

East China Normal University Outstanding Student Scholarship 2020-2023

National Inspiration Scholarship 2020-2023

International Honorable Mention in Mathematical Modeling Contest (MCM/ICM) 2021

National 2nd Prize in Outsourcing Innov.& Ent. Competition (Top 1%) 2022

National 2nd Prize in Computer Design Competition 2022

National 3rd Prize in ICT Competition - Innovation Track 2021

National Eastern Region 1st Prize in Outsourcing Innov.& Ent. Contest 2022

Provincial 2nd Prize in Undergraduate Mathematical Modeling Contest 2022

Provincial 3rd Prize in 'Lan Qiao Cup' of C/C++ Programming 2021

SKILLS

Research Foundation

- Qualitative: interview; grounded theory, thematic analysis
- Quantitative: survey; statistical methods; analysis tools (Jupyter Notebook, Matlab)
- Mixed Method: explanatory, exploratory, experimental

Human-centered Design

- Methodology: autobiographical, user-centered design
- Prototype: Sketching, Storyboard
- Build-Software: website (HTML, CSS, JS, Flask), mobile (Kotlin), visualization (P5.js)
- Deploy-Hardware: PC, Android, embedded system (e.g., Raspberry Pi, Atlas 200dk)
- Sensors: physical (e.g., IMU), psychological (e.g., EEG, fNIRS)

Algorithm

- Programming Language: Python, C/C++, Java, etc.
- Basic Knowledge: data structure, algorithm design
- Artificial Intelligence: machine learning, PyTorch-based deep learning (e.g., CV, NLP, time-series signals)

Language: Native Chinese, Fluent English - IELTS 7.0, Limited French

ACADEMIC AND SOCIAL SERVICES

Reviewer of CHI '23 '25, CSCW '25, IMWUT '25, ACM Health

Volunteer of the Shanghai Xingjia Organization in tutoring for the disabled children (2021-2022)