

Shihan Fu

PHD Student in HCI

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Research Interest

My research focuses on **human-centered AI**, emphasizing on designing assistive technologies that deliver adaptive support and integrate transparent design principles to foster trust through explainable and easily understandable system actions.

Education

Northeastern University

PHD in Computer Science

- Advised by Prof. Dakuo Wang

Sep 2024 - present

The Hong Kong University of Science and Technology

Mphil in Computational Media and Arts

- Advised by Prof. Mingming Fan

Sep 2022 - Jul 2024

Zhejiang University

B.A. in Russian Language and Literature

Sep 2017 - June 2022

Publications

Under Review

- [P.1] **Human and IIm-based voice assistant interaction: An analytical framework for user verbal and nonverbal behaviors**

Szeyi Chan, [Shihan Fu](#), Jiachen Li, Bingsheng Yao, Smit Desai, Mirjana Prpa, Dakuo Wang

Link: <https://arxiv.org/abs/2408.16465>

- [P.2] **Clinical Challenges and AI Opportunities in Decision-Making for Cancer Treatment-Induced Cardiotoxicity**

Siyi Wu, Weidan Cao, [Shihan Fu](#), Bingsheng Yao, Ziqi Yang, Changchang Yin, Varun Mishra, Daniel Addison, Ping Zhang, Dakuo Wang

Link: <https://arxiv.org/abs/2408.03586>

CONFERENCE PAPERS (PEER-REVIEWED)

- [C.7] **CardioAI: A Multimodal AI-based System to Support Symptom Monitoring and Risk Prediction of Cancer Treatment-Induced Cardiotoxicity**

Siyi Wu*, Weidan Cao*, [Shihan Fu](#), Bingsheng Yao, Ziqi Yang, Changchang Yin, Varun Mishra, Daniel Addison, Ping Zhang, Dakuo Wang

Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems, 2025

- [C.6] **SepsisCalc: Integrating Clinical Calculators into Early Sepsis Prediction via Dynamic Temporal Graph Construction**
Changchang Yin, **Shihan Fu**, Bingsheng Yao, Thai-Hoang Pham, Weidan Cao, Dakuo Wang, Jeffrey M Caterino, Ping Zhang
KDD (Knowledge Discovery and Data Mining) 2025 ADS Track, 2025 (In press)
- [C.5] **Bridging the Literacy Gap for Adults: Streaming and Engaging in Adult Literacy Education through Livestreaming**
Shihan Fu, Jianhao Chen, Emily Kuang, Mingming Fan
Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems, 2024
DOI: 10.1145/3613904.3642423
-  [C.4] **"It is hard to remove from my eye": Design Makeup Residue Visualization System for Chinese Traditional Opera (Xiqu) Performers**
Zeyu Xiong, **Shihan Fu**, Yanying Zhu, Chenqing Zhu, Xiaojuan Ma, Mingming Fan
Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems, 2024
DOI: 10.1145/3613904.3642261 (**Honorable Mention (Top 5%)**)
- [C.3] **To Reach the Unreachable: Exploring the Potential of VR Hand Redirection for Upper Limb Rehabilitation**
Peixuan Xiong, Yukai Zhang, Nandi Zhang, **Shihan Fu**, Xin Li, Yadan Zheng, Jinni Zhou, Xiquan Hu, Mingming Fan
Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems, 2024
DOI: 10.1145/3613904.3642912
-  [C.2] **OperArtistry: An AR-based Interactive Application to Assist the Learning of Chinese Traditional Opera (Xiqu) Makeup**
Zeyu Xiong, **Shihan Fu**, Mingming Fan
Proceedings of the Eleventh International Symposium of Chinese CHI, 2023
DOI: 10.1145/3629606.3629622 (**Honorable Mention (Top 5%)**)
- [C.1] **LOOP Meditation: Enhancing Novice's VR Meditation Experience with Physical Movement**
Shihan Fu, Liangliang Qiang, Wei Zeng
Proceedings of the 16th International Symposium on Visual Information Communication and Interaction, 2023
DOI: 10.1145/3615522.3615538

EXTENDED ABSTRACTS & WORKSHOP PAPERS (PEER-REVIEWED)

- [P.1] **AromaBlendz: An Olfactory System for Crafting Personalized Scents**
Shihan Fu, Jianhao Chen, Yi Cai, Mingming Fan
Extended Abstracts of the CHI Conference on Human Factors in Computing Systems, 2024
DOI: 10.1145/3613905.3648670

Honors and Awards

- 2022-2024 **Postgraduate Studentship (PGS)
Full Scholarship**

Service

SERVICE TO THE PROFESSION

2025	Reviewer CHI 2025, CSCW 2025
2024	Reviewer IMWUT 2024, IJHCS(International Journal of Human-Computer Studies)

Skills

Design and Research

User Research, Data Analysis, Prototyping, Usability Testing
User Experience (UX) and User Interface (UI) Design
Storyboarding, Journey Mapping, Personas, and Scenarios