XIAOFU JIN

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EDUCATION

Hong Kong University of Science and Technology — Hong Kong, China
Ph.D. candidate of Academy of Interdisciplinary Studies — *Feb. 2022 – now*
Advisor:Prof.Mingming FAN and Prof.Huamin QU

Rochester Institute of Technology — Rochester, NY, USA
Ph.D. student of Computational and Information Science — *Aug. 2020 – May. 2021*
Advisor:Prof.Mingming FAN

Beijing University of Posts and Telecommunications — Beijing, China
Master of Computer Science — *Sept. 2017 – July. 2020*
Thesis:Research and Application of Image Classification Technology in Agriculture

Beijing University of Posts and Telecommunications — Beijing, China
Bachelor of Artificial Intelligence Science and Technology — *Sept. 2013 – June. 2017*
Thesis:Design and Implementation of Image Style Extraction Algorithm

WORK EXPERIENCE

Baidu — Beijing, China
full-time job, Machine Learning Algorithm Engineer — *July 2018 - July 2019*

DeepIR Inc — Beijing, China
full-time job, Deep Learning Reseacher — *July 2017 - July 2018*

PEER-REVIEWED JOURNAL PUBLICATIONS

J2   **Xiaofu Jin**, Xiaozhu Hu, Xiaoying Wei and Mingming Fan. 2022. Synapse: Interactive Guidance by Demonstration with Trial-and-Error Support for Older Adults to Use Smartphone Apps. In ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (*IMWUT'22*). https://doi.org/10.1145/3550321

J1   Peng Lu, Hao Zhang, Xujun Peng, and **Xiaofu Jin**. 2020. Learning the Relation between Interested Objects and Aesthetic Region for Image Cropping. In IEEE Transactions on Multimedia (*TMM'20)*. https://doi.org/10.1109/TMM.2020.3029882 Github: https://github.com/CVBase-Bupt/EndtoEndCroppingSystem.

PEER-REVIEWED CONFERENCE PUBLICATIONS

C7   Yuru Huang#, Jingling Zhang#, **Xiaofu Jin** and Mingming Fan. 2023. Understanding Curators' Practices and Challenges of Making Exhibitions More Accessible for Blind and Low Vision People. In Proc. International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'23). https://doi.org/10.1145/3597638.3608384

C6   Xian Wang#, Xiaoyu Mo#, Lik-Hang Lee, Xiaoying Wei, **Xiaofu Jin**, Mingming Fan, and Pan Hui. 2023. Designing Loving-Kindness Meditation in Virtual Reality for Long-Distance Romantic Relationships. In Proc. ACM Multimedia (MM'23). https://doi.org/10.1145/3581783.3612438

C5   Xiaoying Wei, Yizheng Gu, Emily Kuang, Xian Wang, Beiyan Cao, **Xiaofu Jin**, and Mingming Fan. 2023. Bridging the Generational Gap: Exploring How Virtual Reality Supports Remote Communication Between Grandparents and Grandchildren. In Proc. ACM CHI Conference on Human Factors in Computing Systems (CHI'23). https://doi.org/10.1145/3544548.3581405

C4   Xiaoying Wei#, **Xiaofu Jin# (co-first author)**, and Mingming Fan. 2022. Communication in immersive social virtual reality: A systematic review of 10 years' studies. In Chinese CHI 2022. DOI: 10.48550/arXiv.2210.01365. - **Honorable Mention Award**

C3   **Xiaofu Jin**, and Mingming Fan. 2022. "I Used To Carry A Wallet, Now I Just Need To Carry My Phone": Understanding Current Banking Practices and Challenges Among Older Adults in China. In Proc. International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'22). https://doi.org/10.1145/3517428.3544820

C2   Emily Kuang, **Xiaofu Jin**, and Mingming Fan. 2022. "Merging Results Is No Easy Task": An International Survey Study of Collaborative Data Analysis Practices Among UX Practitioners. In Proc. ACM CHI Conference on Human Factors in Computing Systems (CHI'22). https://doi.org/10.1145/3491102.3517647

C1   **Xiaofu Jin**, Emily Kuang, and Mingming Fan. 2021. "Too old to bank digitally?": A Survey of Banking Practices and Challenges Among Older Adults in China. In Proc. ACM Designing Interactive Systems Conference (DIS'21). 802–814. https://doi.org/10.1145/3461778.3462127

UNDER-REVIEW MANUSCRIPTS

M6   Anonymous Authors. Exploring the Opportunity of Augmented Reality (AR) in Supporting Older Adults Explore and Learn Smartphone Applications. Submitted to ACM Conference on Human Factors in Computing Systems (CHI), 2024

M5   Anonymous Authors. Virtual Reality as a Social Platform: Insights, Impacts, and Implications from a Systematic Literature Review. Submitted to ACM Conference on Human Factors in Computing Systems (CHI), 2024

M4   Anonymous Authors. Modeling the Intuitiveness of Mobile GUI Navigation by Understanding and Simulating End-user's Choice of UI Links and Attention Distribution on Mobile Screens. Submitted to ACM Conference on Human Factors in Computing Systems (CHI), 2024

M3   Anonymous Authors. From Design Inspiration to Co-curation: The Changing Role of Curatorial Practice in a Digital Generative AI Landscape for the Arts. Submitted to ACM Conference on Human Factors in Computing Systems (CHI), 2024

M2   Anonymous Authors. "Hidden Incidents of Pet Food": Portraying Taurine Deficiency in Cats. Submitted to International Symposium on Electronic Art (ISEA), 2024

M1   Anonymous Authors. Multi-Species Traces and Interactive 3D Exploration of Pentobarbital Secondary Poisoning History. Submitted to ACM Conference on SIGGRAPH ART, 2024

ONGOING PROJECTS

- Health Monitoring for Athletes Using a Multi-Modal Mobile System (incorporate AI, CV, and HCI
- Human AI Collaboration on Clinical Trial
- Novel Computational Model on Targeting Older Adults' Learning of Digital Technologies

HONORS AND AWARDS

- Research Travel Grant (twice), HKUST, 2023
- Honorable Mention Award in ChineseCHI, ACM ChineseCHI'22, 2022
- Second Prize in AI competition in National Huawei Cup, Huawei, 2016
- Great Student Scholorship, BUPT, 2016

PROFESSIONAL SERVICE

- Paper Reviewer: ACM CHI 2022, ACM CHI 2023, CSCW 2023, CHI2024
- Student Volunteer: DIS 2021, Ubicomp 2023.
- Teaching Assistant: COMP 4062 Visualization 2023.
- Program Committee member of ChineseCHI Late-breaking Work track

SKILLS

- Programming Languages: Proficient in Python, Intermediate skills in C++, C, Java, R, Matlab, SQL.
- Machine Learning/AI: Skilled in applying machine learning, deep learning algorithms, and computer vision techniques (e.g., classification, detection, AIGC). Familiar with PyTorch frameworks.
- Scientific Writing and Publication: Strong track record of peer-reviewed publications. Skilled in writing research proposals, literature reviews, and scientific reports.
- Others: Data analysis, Project management