

# XIAOFU JIN

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## EDUCATION

### Hong Kong University of Science and Technology

*Ph.D. candidate of Academy of Interdisciplinary Studies*

*Advisor: Prof. Fan Mingming and Prof. Qu Huamin*

Hong Kong, China

*Feb. 2022 – now*

### Rochester Institute of Technology

*Ph.D. student of Computational and Information Science*

*Advisor: Prof. Fan Mingming*

Rochester, NY, USA

*Aug. 2020 – May. 2021*

### Beijing University of Posts and Telecommunications

*Master of Computer Science*

*Thesis: Research and Application of Image Classification Technology in Agriculture*

Beijing, China

*Sept. 2017 – July. 2020*

### Beijing University of Posts and Telecommunications

*Bachelor of Artificial Intelligence Science and Technology*

*Thesis: Design and Implementation of Image Style Extraction Algorithm*

Beijing, China

*Sept. 2013 – June. 2017*

## WORK EXPERIENCE

### Baidu

*full-time job, Machine Learning Algorithm Engineer*

Beijing, China

*July 2018 - July 2019*

### DeepIR Inc.

*full-time job, Deep Learning Researcher*

Beijing, China

*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*). DOI: 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*). DOI: 10.1109/TMM.2020.3029882

## PEER-REVIEWED CONFERENCE PUBLICATIONS

- C8 **Xiaofu Jin**, Wai Tong, Xiaoying Wei, Xian Wang, Emily Kuang, Xiaoyu Mo, Huamin Qu, Mingming Fan. Exploring the Opportunity of Augmented Reality (AR) in Supporting Older Adults Explore and Learn Smartphone Applications. ACM Conference on Human Factors in Computing Systems (*CHI'24*), 2024, accept with minor revisions
- C8 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*). DOI: 10.1145/3597638.3608384
- C7 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*). DOI: 10.1145/3581783.3612438
- C6 Xiaoying Wei, Yizheng Gu, Emily Kuang, Xian Wang, Beiyang 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*). DOI: 10.1145/3544548.3581405
- C5 **Xiaofu Jin\***, Xiaoying Wei\*, and Mingming Fan. 2022. Communication in immersive social virtual reality: A systematic review of 10 years' studies. In Proc. Chinese CHI 2022. arXiv: 2210.01365 - **Honorable Mention Award**
- C4 **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*). DOI: 10.1145/3517428.3544820

- C3 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). DOI: 10.1145/3491102.3517647
- C2 **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). DOI: 10.1145/3461778.3462127

## UNDER-REVIEW MANUSCRIPTS

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- M6 **Xiaofu Jin**. EarMonitor: At-Home Examination of Ear Health Conditions Using a Low-cost Endoscope Camera. Submitted to ACM Conference on Human Factors in Computing Systems LBW (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 Computer-Supported Cooperative Work and Social Computing (CSCW), 2024
- M4 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 Computer-Supported Cooperative Work and Social Computing (CSCW), 2024
- M3 Anonymous Authors. “Hidden Incidents of Pet Food”: Portraying Taurine Deficiency in Cats. Submitted to International Symposium on Electronic Art (ISEA), 2024
- M2 Anonymous Authors. Multi-Species Traces and Interactive 3D Exploration of Pentobarbital Secondary Poisoning History. Submitted to ACM Conference on SIGGRAPH ART, 2024

## ONGOING PROJECTS

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- Health monitoring for athletes using a multi-modal mobile system  
HKSI project, in collaboration with Prof. Ma Xiaojuan, Prof. So Richard, and Prof. Shi Bert
- Human AI collaboration on clinical trial  
In collaboration with Prof. Qu Huamin
- Innovative algorithm development to bolster AR’s potential in multi-app exploration for seniors  
In collaboration with Prof. Fan Mingming

## HONORS AND AWARDS

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

## PROFESSIONAL SERVICE

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- Paper Reviewer: ACM CHI 2022 - 2024, ACM CSCW 2023,
- Student Volunteer: ACM DIS 2021, ACM Ubicomp 2023
- Teaching Assistant: COMP4062 Visualization 2023
- Program Committee: ChineseCHI LBW 2021 - 2023

## SKILLS

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- Programming Languages: Proficient in Python, Intermediate skills in C++, C, Java, etc.
- Machine Learning/AI: Skilled in 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.