Dr. Meng XIA

Basic Information

Gender: female Birthday: 1993-5 Email: mengxia@andrew.cmu.edu Homepage: https://www.xiameng.org/ Research interest: Human-AI Interaction, Data Visualization, and Education Technology. I develop human-centered data-driven interfaces for providing personalized online learning.

Education Background and Research Experience

2022.1-present	Carnegie Mellon University, Human Computer Interaction Institute, Postdoc
2021.1-2021.12	KAIST, Postdoctoral researcher, School of Computing, Postdoc
2020.9-2021.3	Hong Kong University of Science and Technology, CSE, Postdoc
2017.8-2020.8	Hong Kong University of Science and Technology, PhD of CSE
2019.6-2019.10	University of Toronto, Visiting student of CSE
2014.9-2017.3	Zhejiang University, State Key Laboratory of CAD&CG, Master of CSE
2009.9-2013.7	Hangzhou Dianzi University, Bachelor of Literature in English (second degree)
2009.9-2013.7	Hangzhou Dianzi University, Bachelor of CSE

Pub

	eations
	Robin Schmucker, Meng Xia, Amos Azaria, Tom Mitchell " Ruffle&Riley: Towards the Automated Induction of
	Conversational Tutoring Systems" in NeurIPS 2023 (Workshop)
	Qian Zhu, Linping Yuan, Zian Xu, Leni Yang, Meng Xia, Zhuo Wang, Hai-Ning Liang, Xiaojuan Ma, "From Reader to
	Experiencer: Design and Evaluation of a VR Data Story for Promoting the Situation Awareness of Public Health Threats"
	in IJHCS 2023
	Meng Xia, Xinyi Zhao, Dong Sun, Yun Huang, Jonathan Seawall, Vincent Aleven, "Involving Teachers in the Data-driven
	Improvement of Intelligent Tutors: A Prototyping Study" in AIED 2023
	Conrad Borchers, Paulo F. Carvalho, Meng Xia, Pinyang Liu, Kenneth R. Koedinger and Vincent Aleven, "What Makes
	Problem-Solving Practice Effective? Comparing Paper and AI Tutoring" in ECTEL 2023
	Wai Tong, Meng Xia, Jason Wong, Ting-Chuen PONG, Huamin Qu, Yalong Yang, "Towards an Understanding of
	Asymmetric Collaborative Visualization on Problem-solving" In IEEE VR 2023
	Xian Xu, Wai Tong, Wei Zheng, Meng Xia, Lik-Hang Lee, Huamin Qu, "Cinematography in the Metaverse: Exploring the
	Lighting Education on a Soundstage" In IEEE VR 2023 (Workshop)
	Yifan Cao, Meng Xia, Kento Shigyo, Furui Cheng, Qianhang Yu, Xingxing Yang, Hongkun Liu, Wei Zeng, Yang Wang,
	Huamin Qu, "NFTeller: Dual-centric Visual Analytics for Assessing Market Performance of NFT Collectibles", In VINCI
	2023
	Yifan Cao, Meng Xia, Kento Shigyo, Furui Cheng, Qianhang Yu, Xingxing Yang, Hongkun Liu, Wei Zeng, Yang Wang,
	Huamin Qu, "NFTeller: Dual Centric Visual Analytics of NFT Transactions", In IEEE BigComp (Poster)
	Meng Xia, Yankun Zhao, Mehmet Hamza Erol, Jihyeong Hong, and Juho Kim. "Understanding Distributed Tutorship in
	Online Language Tutoring." In ACM LAK, 2022.
	Meng Xia, Yankun Zhao, Jihyeong Hong, Mehmet Hamza Erol, Taewook Kim, and Juho Kim. "RLens: A Computer-aided
	Visualization System for Supporting Reflection on Language Learning under Distributed Tutorship." In L@S, 2022.
	Meng Xia, Qian Zhu, Xingbo Wang, Fei Nie, Huamin Qu, Xiaojuan Ma. "Persua: A Visual Interactive System to Enhance
	the Persuasiveness of Arguments in Online Discussion." In ACM CSCW, 2022
	Qian Zhu, Leo Yu Ho Lo, Meng Xia, Zixin Chen, Xiaojuan Ma. "Bias-Aware Design for Informed Decisions: Raising
	Awareness of Self-Selection Bias in User Ratings and Reviews." In ACM CSCW, 2022
	Wai Tong, Zhutian Chen, Meng Xia , Leo Yu-Ho Lo, Linping Yuan, Benjamin Bach, Huamin Qu. "Exploring Interactions
	with Printed Data Visualizations in Augmented Reality. "In IEEE VIS, 2022, Honorable Mention Award
	Sean Tsung, Huan Wei, Haotian Li, Meng Xia, Yong Wang, Huamin Qu. "BlockLens: Visual Analytics of Student Coding

Behaviors in Block-Based Programming Environments. " In ACM L@S, 2022 (Short paper)
Mingzhe Li*, Franchesca Spector*, Meng Xia*, Mina Oh*, Peter Cederberg, Yuqi Gong, Kristen Shinohara, Patrick
Carrington. "It Feels Like Taking a Gamble": Exploring Perceptions, Practices, and Challenges of Using Makeup and
Cosmetics for People with Visual Impairments. "In ACM CHI, 2022
Jeongyeon Kim, Yubin Choi, Meng Xia, Juho Kim. "Mobile-Friendly Content Design for MOOCs: Challenges,
Requirements, and Design Opportunities. "In ACM CHI, 2022, Best Paper Award
Kabdo Choi, Hyungyu Shin, Meng Xia, Juho Kim. "AlgoSolve: Supporting Subgoal Learning in Algorithmic
Problem-Solving with Learnersourced Microtasks. " In ACM CHI, 2022
Reshika Palaniyappan Velumani, Meng Xia, Jun Han, Chaoli Wang, Alexis Lau, Huamin Qu. "Explaining Air Quality
Forecast for Verifying Domain Knowledge using Feature Importance Visualization. "In ACM IUI, 2022
Mingfei Sun, Zhenhui Peng, Meng Xia, Xiaojuan Ma. "Investigating the Effects of Robot Engagement Communication on
Learning from Demonstration. " In International Journal of Social Robotics, 2021
Meng Xia, Reshika Palaniyappan Velumani, Yong Wang, Huamin Qu, Xiaojuan Ma. "QLens: Visual Analytics of
Multi-step Problem-solving Behaviors for Improving Question Design. " In TVCG, 2021
Meng Xia, Yuya Asano, Joseph Jay Williams, Huamin Qu, Xiaojuan Ma. "Using Information Visualization to Promote
Students' Reflection on "Gaming the system" in Online Learning. " In ACM L@S, 2020
Meng Xia, Min Xu, Chuan-en Lin, Ta-ying Cheng, Huamin Qu, Xiaojuan Ma. "SeqDynamics: Visual Analytics for
Evaluating Online Problem-solving Dynamics. " In IEEE EuroVIS, 2020
Huan Wei, Haotian Li, Meng Xia, Yong Wang, Huamin Qu. "Predicting Student Performance in Interactive Online
Question Pools Using Mouse Interactions. " In ACM LAK, 2020
Meng Xia, Huan Wei, Min Xu, Leo Yu Ho Lo, Yong Wang, Rong Zhang, Huamin Qu. "Visual Analytics of Student
Learning Behaviors on K-12 Mathematics E-learning Platforms. "In IEEE VIS, 2019 (Poster), Best Poster Award
Meng Xia, Mingfei Sun, Huan Wei, Qing Chen, Yong Wang, Lei Shi, Huamin Qu, Xiaojuan Ma. "PeerLens: Peer-inspired
Interactive Learning Path Planning in Online Question Pool. " In ACM CHI, 2019
Meng Xia, Rong Zhang, Ren Peng, Jinhui Yu. "Generation of Thangka Relief from Line Drawings." In SCIENTIA
SINICA Informationis, 2018
Ke Xu, Meng Xia, Xing Mu, Yun Wang, Nan Cao. "EnsembleLens: Ensemble-based Visual Exploration of Anomaly
Detection Algorithms with Multidimensional Data." In TVCG, 2018
Zhenhui Peng, Jeehoon Yoo, Meng Xia, Sunghun Kim, Xiaojuan Ma. "Exploring How Software Developers Work with
Mention Bot in GitHub." In ACM Chinese CHI, 2018
Mingfei Sun, Yiqing Mou, Hongwen Xie, Meng Xia, Michelle Wong, Xiaojuan Ma. "Estimating Emotional Intensity from
Body Poses for Human-Robot Interaction." In IEEE SMC, 2018
Yuanli Feng, Meng Xia, Penglei Ji, Xiao Zhou, Ming Zeng, Xinguo Liu. "Deep Spherical Panoramic Representation for 3D
Shape Recognition." In IEEE Computer-Aided Design & Computer Graphics, 2017
Yinglie Zhang, Meng Xia, Linqiang Chen. "Designing Kinect Game based on Video Tracking." In Computer Engineering
and Applications, 2015

Scholarships and Prizes

Honorable Mention Award at IEEE VIS 2022

Best Paper Award at ACM CHI 2022

SENG TOP Research Program Graduate Award, 2018-2019

Best Poster Award at IEEE VIS, 2019

Overseas Research Award, 2018-2019

National Scholarship, 2015 & 2011

Chairman of Postgraduate Association of Computer Science Department, 2014-2015

Teaching Experience

Teaching Assistant Coordinator at HKUST, Spring 2020

Teaching Assistant at HKUST for COMP 2611 Computer Organization, Spring 2018 & Fall 2018

Community Service

Program Chair of Learning @ Scale 2024

Youth Editor for the Journal of Visual Informatics

Area Chair for CHI 2023, 2024; CHI (Late Breaking Work) 2022

Program committee member for IEEE VIS 2021, 2022; IUI 2022; CSCW 2023

Reviewer of CHI 2019, 2020, 2021, 2022, 2023, 2024; VIS 2020, 2021, 2022, 2023; CSCW 2021, 2022, 2023; ChinaVis 2019, 2020, 2021, 2022; LAK 2022

Personal skills

English Fluent

ProgrammingJavaScript, Python, C/C++, C#, PHP, NoSQL (MongoDB)PersonalityOptimistic, curious about new things, and hardworking

Specialty Project management and teamwork