Dr. Meng XIA

Basic Information

Email: mengxia@tamu.edu Homepage: https://www.xiameng.org/

Research areas: Human-AI Interaction, Data Visualization, and Education Technology

Education Background and Research Experience

2024.1-present	Texas A&M University, Computer Science and Engineering, Assistant Professor		
2022.1-2024.1	Carnegie Mellon University, Human Computer Interaction Institute, Postdoc		
2021.1-2021.12	KAIST, Postdoctoral researcher, School of Computing, Postdoc		
2020.9-2021.1	Hong Kong University of Science and Technology, Computer Science and Engineering, Postdoc		
2017.8-2020.8	Hong Kong University of Science and Technology, Computer Science and Engineering, PhD		
2019.6-2019.10	University of Toronto, Computer Science and Engineering, Visiting student		
2014.9-2017.3	Zhejiang University, State Key Laboratory of Computer Aided Design and Computer Graphics		
(CAD&CG), Computer Science and Engineering, Master			
2009.9-2013.7	Hangzhou Dianzi University, Literature in English (second degree), Bachelor		
2009.9-2013.7	Hangzhou Dianzi University, Computer Science and Engineering, Bachelor		

Publications

Sitong Pan, Robin Schmucker, Bernardo Garcia Bulle Bueno, Salome Aguilar Llanes, Fernanda Albo Alarcón, Hangxiao
Zhu, Adam Teo, Meng Xia, "TutorUp: What If Your Students Were Simulated? Training Tutors to Address Engagement
Challenges in Online Learning" in CHI 2025
Gefei Zhang, Shenming Ji, Yicao Li, Jingwei Tang, Jihong Ding, Meng Xia, Guodao Sun, Ronghua Liang, "CPVis:
Evidence-based Multimodal Learning Analytics for Evaluation in Collaborative Programming" in CHI 2025
Wai Tong, Haobo Li, Meng Xia, Kam Kwai Wong, Ting-Chuen Pong, Huamin Qu, Yalong Yan, "Exploring Spatial
Hybrid User Interface for Visual Sensemaking" in TVCG 2025
Xian Xu, Wai Tong, Wei Zheng, Meng Xia, Lik-Hang Lee, Huamin Qu, "Transforming Cinematography Lighting
Education in the Metaverse" in Visual Informatics 2024
Yi-Fan Cao, Reza Hadi Mogavi, Meng Xia, Leo Yu-Ho Lo, Xiaoqing Zhang, Mei-Jia LOU, Lennart E. Nacke, Yang
Wang, Huamin Qu, "The Jade Gateway to Trust: Exploring How Socio-Cultural Perspectives Shape Trust Within Chinese
NFT Communities" in CSCW 2024
Zixin Chen, Jiachen Wang, Meng Xia, Kento Shigyo, Dingdong Liu, Rong Zhang, Huamin Qu, "StuGPTViz: A Visual
Analytics Approach to Understand Student-ChatGPT Interactions" in IEEE VIS 2024
Wai Tong, Kento Shigyo, Lin-PinJobg Yuan, Mingming Fan, Ting-Chuen Pong, Huamin Qu, Meng Xia, "VisTellAR:
Embedding Data Visualization to Short-form Videos Using Mobile Augmented Reality" in TVCG 2024
Wai Tong, Meng Xia, Huamin Qu, "Exploring Stage Lighting Education in Metaverse" in CHI LBW 2024
Ha Tien Nguyen, Conrad Borchers, Meng Xia, Vincent Aleven, "Designing Tools for Caregiver Involvement in Intelligent
Tutoring Systems for Middle School Mathematics" in ISLS 2024
Robin Schmucker, Meng Xia, Amos Azaria, Tom Mitchell, "Ruffle&Riley: Insights from Designing and Evaluating a
Large Language Model-Based Conversational Tutoring System" in AIED 2024
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-driver
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
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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

Instructor at Texas A&M for 689 Human-AI Interaction, Spring 2024

Instructor at CMU for 05432/05832 Personalized Online Learning, Fall 2022

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, 2025; 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