

Dr. Meng XIA

Basic Information

Gender: female Birthday: 1993-5 Email: iris.xia@connect.ust.hk Homepage: xiameng.org
Research interest: Data Visualization, Human Computer Interaction, and Education. Using visual analytics and emerging AI techniques to improve education.

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

Publications

BlockLens: Visual Analytics of Student Coding Behaviors in Block-Based Programming Environments,
Sean Tsung, Huan Wei, Haotian Li, **Meng Xia**, Yong Wang, Huamin Qu, L@S 2022 (Work In Progress)

RLens: A Computer-aided Visualization System for Supporting Reflection on Language Learning under Distributed Tutorship
Meng Xia, Yankun Zhao*, Jihyeong Hong*, Mehmet Hamza Erol*, Taewook Kim, Juho Kim, L@S 2022

Persua: A Visual Interactive System to Enhance the Persuasiveness of Arguments in Online Discussion
Meng Xia, Qian Zhu, Xingbo Wang, Fei Nie, Huamin Qu, Xiaojuan Ma, CSCW 2022

"It Feels Like Taking a Gamble": Exploring Perceptions, Practices, and Challenges of Using Makeup and Cosmetics for People with Visual Impairments
Mingzhe Li*, Franchesca Spector*, **Meng Xia***, Mina Oh*, Peter Cederberg, Yuqi Gong, Kristen Shinohara, Patrick Carrington, CHI2022

Mobile-Friendly Content Design for MOOCs: Challenges, Requirements, and Design Opportunities
Jeongyeon Kim, Yubin Choi, **Meng Xia**, Juho Kim, CHI 2022

AlgoSolve: Supporting Subgoal Learning in Algorithmic Problem-Solving with Learnersourced Microtasks
Kabdo Choi, Hyungyu Shin, **Meng Xia**, Juho Kim, CHI 2022

Explaining Air Quality Forecast for Verifying Domain Knowledge using Feature Importance Visualization
Reshika Palaniyappan Velumani, **Meng Xia**, Jun Han, Chaoli Wang, Alexis Lau, Huamin Qu, IUI 2022

Investigating the Effects of Robot Engagement Communication on Learning from Demonstration

Mingfei Sun, Zhenhui Peng, **Meng Xia**, Xiaojuan Ma, International Journal of Social Robotics 2021

QLens: Visual Analytics of Multi-step Problem-solving Behaviors for Improving Question Design

Meng Xia, Reshika Palaniyappan Velumani, Yong Wang, Huamin Qu, Xiaojuan Ma, VIS 2020 (TVCG 2021)

Using Information Visualization to Promote Students' Reflection on "Gaming the system" in Online Learning

Meng Xia, Yuya Asano, Joseph Jay Williams, Huamin Qu, Xiaojuan Ma, L@S 2020

SeqDynamics: Visual Analytics for Evaluating Online Problem-solving Dynamics

Meng Xia, Min Xu, Chuan-en Lin, Ta-ying Cheng, Huamin Qu, Xiaojuan Ma, EuroVIS 2020

Visual Analytics of Student Learning Behaviors on K-12 Mathematics E-learning Platforms

Meng Xia, Huan Wei, Min Xu, Leo Yu Ho Lo, Yong Wang, Rong Zhang, Huamin Qu, IEEE VIS 2019 Posters, Best Poster Award

PeerLens: Peer-inspired Interactive Learning Path Planning in Online Question Pool

Meng Xia, Mingfei Sun, Huan Wei, Qing Chen, Yong Wang, Lei Shi, Huamin Qu, Xiaojuan Ma, in Proc. of ACM SIGCHI 2019

Generation of Thangka Relief from Line Drawings

Meng Xia, Rong Zhang, Ren Peng, Jinhui Yu, SCIENTIA SINICA Informationis 2018

EnsembleLens: Ensemble-based Visual Exploration of Anomaly Detection Algorithms with Multidimensional Data

Ke Xu, **Meng Xia**, Xing Mu, Yun Wang, Nan Cao, TVCG 2018

Exploring How Software Developers Work with Mention Bot in GitHub

Zhenhui Peng, Jeehoon Yoo, **Meng Xia**, Sunghun Kim, Xiaojuan Ma, in Proc. of Chinese CHI 2018

Estimating Emotional Intensity from Body Poses for Human-Robot Interaction

Mingfei Sun, Yiqing Mou, Hongwen Xie, **Meng Xia**, Michelle Wong, Xiaojuan Ma, in Proc. of IEEE SMC 2018

Deep Spherical Panoramic Representation for 3D Shape Recognition

Yuanli Feng, **Meng Xia**, Penglei Ji, Xiao Zhou, Ming Zeng, Xinguo Liu, Computer-Aided Design & Computer Graphics 2017

Designing Kinect Game based on Video Tracking

Yinglie Zhang, **Meng Xia**, Linqiang Chen, Computer Engineering and Applications 2015

Scholarships and Prizes**HKUST**

RGC Postdoctoral Fellowship (PDFS) 2021 (only 50 awardees each year in HK)

SENG TOP RPg Award, 2018-2019

Best Poster Award in VIS, 2019

Overseas Research Award, 2018-2019

Zhejiang University

National Scholarship, 2015

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

Outstanding graduate student and student cadres, 2014-2015

Hangzhou Dianzi University

National Scholarship, 2011

Teaching Experience

Teaching Assistant Coordinator at HKUST, Spring 2020

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

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

Community Service

AC for LBW CHI 2022

Program Committee member for IEEE VIS 202, 2022

Reviewer of CHI 2019, 2020, 2021

Reviewer of VIS 2020, 2021

Reviewer of ChinaVis 2019, 2020, 2021

Reviewer of CSCW 2021, 2022

Personal skills

English IELTS 7.0

Programming JavaScript, Python, C/C++, C#, PHP, NoSQL (MongoDB)

Personality Optimistic, curious about new things, and hardworking

Specialty Project management and teamwork
