

# Xiaojuan Ma, Curriculum Vitae

Department of Computer Science and Engineering  
The Hong Kong University of Science and Technology  
Clear Water Bay, Kowloon, Hong Kong

(+852) 23586991  
mxj@cse.ust.hk  
<http://www.cse.ust.hk/~mxj/>

## Research Interests

- Human-Engaged Computing: human-AI collaboration
- Human-Computer Interaction: robot and virtual agent, VR/AR/MR, visualization, affective and social computing, ubiquitous computing
- Specific application domains: education, healthcare, design, entertainment, e-commerce

## Education

**Ph.D.:** Computer Science, Princeton University      Advisor: Perry Cook      09/2010  
Thesis: *Communication beyond Words: Multimedia Approaches to Bridging Language Disabilities and Barriers.*

**M.A.:** Computer Science, Princeton University      05/2007

**B.Sc.:** Computer Science and Technology, Tsinghua University, China      07/2005

**Minor:** English, Tsinghua University, China      07/2005

## Employment

**Associate Professor**, Hong Kong University of Science and Technology, Hong Kong 07/2021 - Present  
**Assistant Professor**, Hong Kong University of Science and Technology, Hong Kong 07/2015 – 06/2021  
Human-Computer Interaction Initiative, Department of Computer Science and Engineering  
Affiliated with HKUST Big Data Institute, HKUST Robotics Institute, IIM Program

**Researcher**, Noah's Ark Lab, Hong Kong      12/2012 - 06/2015  
Human-Computer Interaction: mobile interactions, mobile intelligence, eye-tracking, etc.

**Postdoctoral Scholar**, Carnegie Mellon University, Pittsburgh, PA      03/2011 - 11/2012  
Human-Computer Interaction, HCI Institute (with Jodi Forlizzi)  
Awarded as Computing Innovation Fellow by CRA (Computing Research Association)

**Research Fellow**, National University of Singapore, Singapore      08/2010 - 02/2011  
Information Systems (with Jack Zhenhui Jiang)

**Research Assistant**, Princeton University, Princeton, NJ      09/2005 - 07/2010  
Computer Science (with Perry Cook)

**Research Internship**, University of British Columbia, BC, Canada      05/2007 - 08/2007  
Dept. of Psychology (with Peter Graf) and Dept. of Computer Science (with Joanna McGrenere)

**Internship**, Educational Testing Service, Princeton, NJ      09/2006 - 03/2007  
User Experience Group

## Funded Projects

**RGC - General Research Fund (GRF) 16207923:** PI, HKD 1,228,619      1/1/2024 - 31/12/2026  
Socially Acceptable Robot Interactions with Objects in Human Environments

**RGC - General Research Fund (GRF) 16203421:** PI, HKD 838,393      1/1/2022 - 31/12/2024  
Teaching Robots Functional Affordance via Knowledge Grounding and Demonstration

**RGC - General Research Fund (GRF) 16204420:** PI, HKD 845,055      1/1/2021 - 31/12/2023  
Scaling Up Robot Skill Acquisition When Learning from Human Demonstration

**RGC - General Research Fund (GRF) 16204819:** PI, HKD 518,999 1/1/2020 - 31/12/2022  
 Transparency in Robot Learning from Demonstration  
 (UGC - Research Infrastructure Grant IRS20EG25: HKD 30,000)

**RGC - Collaborative Research Fund (CRF) C6030-18G:** Co-PI, HKD 3,716,381 29/6/2019 - 28/6/2022  
 A Human-Powered Machine Learning System  
 (UGC - Research Infrastructure Grant VPRDO19EG05: HKD 494,900)

**RGC - Theme-based Research Scheme T45-407/19N-2:** PI, HKD 236,000 1/1/2020 - 31/12/2024  
 Research and Development of Artificial Intelligence in Extraction and Identification of Spoken Language Biomarkers for Screening and Monitoring of Neurocognitive Disorders (Total Amount HKD 50,000,000)  
 (UGC - Research Infrastructure Grant VPRDO20EG03: HKD 27,000)

**RGC - Theme-based Research Scheme T44-707/16N:** CI, HKD 3,919,000 1/11/2016 - 31/10/2021  
 Learning and Assessment for Digital Citizenship  
 (UGC - Research Infrastructure Grant VPRGO17EG03: HKD 436,600)

**HKUST-HKPC HKPC22EG01-A:** PI, HKD 417,391 1/8/2022 - 31/12/2023  
 Robot Task Learning through Virtual Human Demonstration

**HKUST Aging Center - VPRDO22EG05PG:** Co-PI, HKD 972,000 1/6/2022 - 31/5/2024  
 Humanoid Robotic Healthcare Assistant

**CORE Project - QNLM20SC01-M:** PI, HKD 300,000 1/6/2022 - 31/5/2024  
 Interactive Visual Analytics of Dissolved Inorganic Carbon in the South China Sea

**ITC - ITF Platform Research Scheme ITS/353/19FP:** CI, HKD 2,945,000 1/9/2020 - 31/8/2022  
 A Multi-Modal, Multi-Task Smart In-Car Assistant for 5G Connected Cars

**ITC - ITF Platform Research Scheme ITS/319/16FP:** CI, HKD 8,595,928 1/6/2017 - 30/11/2019  
 Multichannel Emotion and Intent Inference and Expression for Human- Robot Interactions  
 Innovation and Technology Support Programme (Tier 2) - (UST-Berkeley Research Collaboration)

**WeBank WEB19EG01-D:** CI, HKD 418,091 1/9/2019 - 14/4/2022  
 Innovative, Interactive, and Collaborative Online Advertising  
 (UGC - Research Infrastructure Grant RMGS20EG01-D: HKD 181,818)

**ASPIRE League Partnership Seed Fund 2021#3:** Co-PI, HKD 50,000 1/9/2021 - 28/2/2023  
 Mitigating Filter Bubbles in Social Media Consumption with AI

**HKUST-SJTU Joint Research Collaboration Fund SJTU20EG02:** PI, HKD 50,000 1/9/2020 - 31/8/2021  
 Technology-Supported Psychological Wellbeing: Mitigating the Impacts of COVID-19

**RDC 19201890HWLB15M013:** PI, HKD 437,450 23/6/2020 - 31/12/2020  
 Evaluation Model of Critical Dimensions for Brand Differentiation

**RDC 1817169-0, 1718170-0, 1718171-0:** PI, HKD 568,856 1/5/2018 - 30/9/2019  
 Network Embedding on Financial Data

**WHATLab 1617170-0:** PI, HKD 188,400 1/2/2017 - 13/1/2018  
 Pose-based Human Emotion Inference

**WHATLab 1516144-0:** PI, HKD 162,000 15/2/2016 - 14/2/2017  
 Multimodality Footing in Human-Robot Conversations

**Initiation Grant IGN15EG02:** PI, HKD 172,900 1/1/2016 - 31/12/2017  
 Developing a sensible model of engagement in multi-party interactions in human-robot team

**Research Equipment Competition REC15EG04:** PI, HKD 520,560 14/12/2015 - 10/6/2016  
 Human-machine Hybrid Computing System

## **Selected Publications** (Graduate advisees are in *underlined italic*, other mentees are in underline)

### **Book or Book Chapter**

1. Marcus, Aaron and **Xiaojuan Ma**. "Cuteness Engineering and UX Design". *Human-Automation Interaction*. 2023. Springer, 163-179.
2. Li, Quan, Ziming Wu, Huamin Qu, and **Xiaojuan Ma**. "Co-design of an Interactive Analytics System for Multiplayer Online Battle Arena Game Occurrences". Wallner, G. (Ed.) *Data Analytics Applications in Gaming and Entertainment*. (July, 2019, in press)
3. Marcus, Aaron, Masaaki Kurosu, **Xiaojuan Ma**, Ayako Hashizume. "*Cuteness Engineering: Designing Adorable Products and Services*". Springer Series on Cultural Computing. Springer International Publishing. 2017. DOI: 10.1007/978-3-319-61961-3

### **Refereed Journal Papers**

1. Ma, Shuai, Mingfei Sun, and **Xiaojuan Ma**. "Modeling Adaptive Expression of Robot Learning Engagement and Exploring its Effects on Human Teachers." *ACM Transactions on Computer-Human Interaction* 30, no. 5 (2023): 1-48.
2. Zhu, Qian, Linping Yuan, Zian Xu, Leni Yang, Meng Xia, Zhuo Wang, Hai-Ning Liang, and **Xiaojuan Ma**. "From Reader to Experiencer: Design and Evaluation of an Interactive Vr Story for Promoting the Situation Awareness of Public Health Threats." *International Journal of Human-Computer Studies (IJHCS)*. (2023, accepted). 181, 103137.
3. Shi, Chuhan, Weiwei Cui, Chengzhong Liu, Chengbo Zheng, Haidong Zhang, Qiong Luo, and **Xiaojuan Ma**. "NL2Color: Refining Color Palettes for Charts with Natural Language." *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, 99 (2023): 1-11.
4. Guo, Qingyu, Chuhan Shi, Zhuohao Yin, Chengzhong Liu, and **Xiaojuan Ma**. "Exploring the Effects of Event-induced Sudden Influx of Newcomers to Online Pop Music Fandom Communities: Content, Interaction, and Engagement". *Proceedings of the ACM on Human-Computer Interaction*. 7, CSCW2, Article 272 (October 2023), 24 pages.
5. Sun, Yuling, **Xiaojuan Ma**, Silvia Lindtner, and Liang He. "Care Workers' Wellbeing in Data-Driven Healthcare Workplace: Identity, Agency, and Social Justice". *Proceedings of the ACM on Human-Computer Interaction*. 7, CSCW2, Article 329 (October 2023), 29 pages. (Recognition for Contribution to Diversity and Inclusion)
6. Sun, Yuling, **Xiaojuan Ma**, Silvia Lindtner, and Liang He. "Data Work of Frontline Care Workers: Practices, Problems, and Opportunities in the Context of Data-Driven Long-Term Care". *Proceedings of the ACM on Human-Computer Interaction* t. 7, CSCW1, Article 42 (April 2023), 28 pages. (Impact Recognition)
7. Sun, Zhida, Sitong Wang, Chengzhong Liu, and **Xiaojuan Ma**. "Metaphoraction: Support Gesture-based Interaction Design with Metaphorical Meanings." *ACM Transactions on Computer-Human Interaction* 29, no. 5 (2022): 1-33.
8. Zhu, Qian, Leo Yu-Ho Lo, Meng Xia, Zixin Chen, and **Xiaojuan Ma**. "Bias-Aware Design for Informed Decisions: Raising Awareness of Self-Selection Bias in User Ratings and Reviews." *Proceedings of the ACM on Human-Computer Interaction* 6, CSCW2 (November 2022), Article 496, 31 pages.
9. Ko, Man Ching and **Xiaojuan Ma**. "Mobilizing Instrumental Childcare Support for Postpartum Mothers: Needs for and Barriers to Infant-centric Family Informatics Practices in Hong Kong". *Proceedings of the ACM on Human-Computer Interaction*. 6, CSCW2, Article 359 (November 2022), 40 pages.

10. Xia, Meng, Qian Zhu, Xingbo Wang, Fei Nie, Huamin Qu, and **Xiaojuan Ma**. "Persua: A Visual Interactive System to Enhance the Persuasiveness of Arguments in Online Discussion". *Proceedings of the ACM on Human-Computer Interaction*. 6, CSCW2, Article 319 (November 2022), 30 pages
11. Liu, Chengzhong, Zeyu Huang, Dingdong Liu, Shixu Zhou, Zhenhui Peng, and **Xiaojuan Ma**. PlanHelper: Supporting Activity Plan Construction with Answer Posts in Community-based QA Platforms. *Proceedings of the ACM on Human-Computer Interaction*. 6, CSCW2, Article 454 (2022), 26 pages.
12. Hadi Mogavi, Reza, Yuanhao Zhang, Ehsan ul Haq, Yongjin Wu, Pan Hui, and **Xiaojuan Ma**. What Do Users Think of Promotional Gamification Schemes? A Qualitative Case Study in a Question Answering Website. *Proc. ACM Hum.-Comput. Interact.* CSCW. 6, CSCW2, Article 399 (November 2022), 34pages.
13. Hadi Mogavi, Reza, Ehsan ul Haq, Sujit Guja, Pan Hui, and **Xiaojuan Ma**. More Gamification Is Not Always Better: A Case Study of Promotional Gamification in a Question Answering Website. *Proc. ACM Hum.-Comput. Interact.* 6, CSCW2, Article 452 (November 2022), 32 pages.
14. Li, Quan, Xiguang Wei, Huanbin Lin, Yang Liu, Tianjian Chen, and **Xiaojuan Ma**. "Inspecting the Running Process of Horizontal Federated Learning via Visual Analytics". *IEEE Transactions on Visualization and Computer Graphics (TVCG)*. 28, no. 12 (2021): 4085-4100.
15. Zhao, Zhenjie and **Xiaojuan Ma**. "Designing an Artificial Agent for Cognitive Apprenticeship Learning of Elevator Pitch in Virtual Reality". *IEEE Transactions on Cognitive and Developmental Systems (TCDS)*. 14, no. 3 (2021): 857-868.
16. Mogavi, Reza Hadi, **Xiaojuan Ma**, and Pan Hui. "Characterizing Student Engagement Moods for Dropout Prediction in Question Pool Websites". *Proc. ACM Hum.-Comput. Interact.* 5, CSCW1, Article 12 (April 2021), 22 pages.
17. Wang, Liuping, Dakuo Wang, Feng Tian, Zhenhui Peng, Xiangmin Fan, Zhan Zhang, Shuai Ma, Mo Yu, **Xiaojuan Ma**, and Hongan Wang. "CASS: Towards Building a Social-Support Chatbot for Online Health Community". *Proc. ACM Hum.-Comput. Interact.* 5, CSCW1, Article 9 (April 2021), 31 pages.
18. Mingfei Sun, Zhenhui Peng, Meng Xia, and **Xiaojuan Ma**. "Investigating the Effects of Robot Engagement Communication on Learning from Demonstration". *International Journal of Social Robotics*. 2021: 1-18.
19. Jiang, Zhihan, Hang Zhu, Binbin Zhou, Chenhui Lu, Mingfei Sun, **Xiaojuan Ma**, Xiaoliang Fan, Cheng Wang, and Longbiao Chen. "CrowdPatrol: A Mobile Crowdsensing Framework for Traffic Violation Hotspot Patrolling." *IEEE Transactions on Mobile Computing* vol. 22, no. 3, pp. 1401-1416. First accepted in 2021.
20. Xia, Meng, Palaniyappan Velumani, Panpan Xu, Yong Wang, Huamin Qu, and **Xiaojuan Ma**. "QLens: Visual Analytics of Multi-step Problem-solving Behaviors for Improving Question Design". *IEEE Transactions on Visualization and Computer Graphics (TVCG)*. 27, no. 2 (2020): 870-880.
21. Sun, Zhida, Manuele Reani, Quan Li, and **Xiaojuan Ma**. "Fostering Engagement in Technology-Mediated Stress Management: A Comparative Study of Biofeedback Designs," *International Journal of Human-Computer Studies (IJHCS)*, (2020), Vol 140. 102430.
22. Wang, Leye, Daqing Zhang, Dingqi Yang, Brian Y. Lim, Xiao Han, and **Xiaojuan Ma**. "Sparse Mobile Crowdsensing With Differential and Distortion Location Privacy," *IEEE Transactions on Information Forensics and Security*, vol. 15, (2020): 2735-2749.
23. Xia, Meng, Min Xu, Ta-ying Cheng, Chuan-en Lin, Huamin Qu, and **Xiaojuan Ma**. "SeqDynamics: Visual Analytics for Evaluating Online Problem-solving Dynamics." *Computer Graphics Forum*. vol. 39, no. 3, (2020). pp. 511-522.
24. Li, Quan, Ziming Wu, Lingling Yi, Kristanto Sean Njotoprawiro, Huamin Qu, and **Xiaojuan Ma**. "WeSeer: Visual Analysis for Better Information Cascade Prediction of WeChat Articles," *IEEE Transactions on*

- Visualization and Computer Graphics (TVCG)*, (2020). vol. 26, no. 2, pp. 1399-1412.
25. Wang, Leye, Xu Geng, **Xiaojuan Ma**, Daqing Zhang, and Qiang Yang. "Ridesharing car detection by transfer learning." *Artificial Intelligence*. (2019). 273: 1-18.
  26. Wang, Yun\*, Zhida Sun\*, Haidong Zhang, Weiwei Cui, Ke Xu, **Xiaojuan Ma**, and Dongmei Zhang. "DataShot: Automatic Generation of Fact Sheet from Tabular Data." *IEEE Transactions on Visualization and Computer Graphics (TVCG)*. (2019). 26(1): 895-905. (\* Equal Contributions)
  27. Kim, Taewook, Jungsoo Lee, Zhenhui Peng, and **Xiaojuan Ma**. "Love in Lyrics: An Exploration of Supporting Textual Manifestation of Affection in Social Messaging." *Proceedings of the ACM on Human-Computer Interaction*. 3, CSCW. (2019).
  28. Zhao, Zhenjie and **Xiaojuan Ma**. "ShadowPlay2.5D: A 360-Degree Video Authoring Tool for Immersive Appreciation of Classical Chinese Poetry." *ACM Journal on Computing and Cultural Heritage (JOCCH)*. Article No.: 5. 20 pages. (2019).
  29. Zhao, Sha, Yizhi Xu, **Xiaojuan Ma**, Ziwen Jiang, Zhiling Luo, Shijian Li, Laurence Tianruo Yang, Anind Dey, and Gang Pan. "Gender Profiling from a Single Snapshot of Apps Installed on a Smartphone: An Empirical Study." *IEEE Transactions on Industrial Informatics*. 16(2), 1330-1342. (2019).
  30. Wang, Leye, Dingqi Yang, Xiao Han, Daqing Zhang, and **Xiaojuan Ma**. "Mobile Crowdsourcing Task Allocation with Differential-and-Distortion Geo-Obfuscation". *IEEE Transactions on Dependable and Secure Computing*. 18(2), 967-981. (published 2020, early access 2019).
  31. Peng, Zhenhui and **Xiaojuan Ma**. "Exploring how software developers work with mention bot in GitHub". *CCF Transactions on Pervasive Computing and Interaction*. 1: 190–203. (2019).
  32. Peng, Zhenhui and **Xiaojuan Ma**. "A survey on construction and enhancement methods in service chatbots design". *CCF Transactions on Pervasive Computing and Interaction*. 1: 204-223. (2019).
  33. **Ma, Xiaojuan**, Xinning Gui, Jiayue Fan, Mingqian Zhao, Yunan Chen, and Kai Zheng. "Professional Medical Advice at your Fingertips: An empirical study of an online "Ask the Doctor" Platform." *Proceedings of the ACM on Human-Computer Interaction* 2, no. CSCW (2018): 116.
  34. Wu, Ziming, Zhida Sun, Taewook Kim, Manuele Reani, Caroline Jay, and **Xiaojuan Ma**. "Mediating Color Filter Exploration with Color Theme Semantics Derived from Social Curation Data." *Proceedings of the ACM on Human-Computer Interaction* 2, no. CSCW (2018): 187.
  35. Tong, Chao, Richard Roberts, Rita Borgo, Sean Walton, Robert Laramée, Kodzo Wegba, Aidong Lu, Yun Wang, Huamin Qu, Qiong Luo, **Xiaojuan Ma**. "Storytelling and visualization: An extended survey." *Information* 9, no. 3 (2018): 65.
  36. **Ma, Xiaojuan**. "Data-driven approach to human-engaged computing." *International series on information systems and management in creative eMedia (CreMedia)*. 2017, no. 2 (2018): pp. 43-47.
  37. Li, Quan, Peng Xu, Yeuk Yin Chan, Yun Wang, Zhipeng Wang, Huamin Qu, and **Xiaojuan Ma**. "A visual analytics approach for understanding reasons behind snowballing and comeback in MOBA games." *IEEE Transactions on Visualization and Computer Graphics (TVCG)* 23, no. 1 (2017): 211-220.
  38. Zhu, Kening, **Xiaojuan Ma**, Haoyuan Chen, and Miaoyin Liang. "Tripartite Effects: Exploring Users' Mental Model of Mobile Gestures under the Influence of Operation, Handheld Posture, and Interaction Space." *International Journal of Human-Computer Interaction (IJHCI)* 33, no. 6 (2017): 443-459.
  39. Chen, Chao, Daqing Zhang, **Xiaojuan Ma**, Bin Guo, Leye Wang, Yasha Wang, and Edwin Sha. "Crowddeliver: planning city-wide package delivery paths leveraging the crowd of taxis." *IEEE Transactions on Intelligent Transportation Systems* 18, no. 6 (2017): 1478-1496.
  40. Chen, Huihui, Bin Guo, Zhiwen Yu, Liming Chen, and **Xiaojuan Ma**. "A generic framework for constraint-driven data selection in mobile crowd photographing." *IEEE Internet of Things Journal* 4, no. 1 (2017): 284-

41. Chen, Longbiao, **Xiaojuan Ma**, Gang Pan, and Jérémie Jakubowicz. "Understanding bike trip patterns leveraging bike sharing system open data." *Frontiers of computer science* 11, no. 1 (2017): 38-48.
42. Chen, Chao, Xia Chen, Leye Wang, **Xiaojuan Ma**, Zhu Wang, Kai Liu, Bin Guo, and Zhen Zhou. "MA-SSR: A Memetic Algorithm for Skyline Scenic Routes Planning Leveraging Heterogeneous User-generated Digital Footprints." *IEEE Transactions on Vehicular Technology*. 66, no. 7 (2017): 5723 – 5736.
43. Chen, Longbiao, Daqing Zhang, **Xiaojuan Ma**, Leye Wang, Shijian Li, Zhaohui Wu, and Gang Pan. "Container port performance measurement and comparison leveraging ship GPS traces and maritime open data." *IEEE Transactions on Intelligent Transportation Systems* 17, no. 5 (2016): 1227-1242.
44. Guo, Bin, Zhiwen Yu, Liming Chen, Xingshe Zhou, and **Xiaojuan Ma**. "MobiGroup: Enabling lifecycle support to social activity organization and suggestion with mobile crowd sensing." *IEEE Transactions on Human-Machine Systems* 46, no. 3 (2016): 390-402.
45. **Ma, Xiaojuan**. "Developing Design Guidelines for a Visual Vocabulary of Electronic Medical Information to Improve Health Literacy." *Interacting with Computers (IwC)* 28, no. 2 (2015): 151-169. (**Best Paper Award** at the International Symposium of Interaction Design and Human Factors - IDHF2014).
46. **Ma, Xiaojuan**. "Data-driven techniques to assist design of perceptually effective visual displays." *Information Design Journal (IDJ)* 21, no. 3 (2014).
47. Chen, Chao, Daqing Zhang, Bin Guo, **Xiaojuan Ma**, Gang Pan, and Zhaohui Wu. "TripPlanner: Personalized trip planning leveraging heterogeneous crowdsourced digital footprints." *IEEE Transactions on Intelligent Transportation Systems* 16, no. 3 (2015): 1259-1273.
48. **Ma, Xiaojuan**. "Evocation: analyzing and propagating a semantic link based on free word association." *Language Resources and Evaluation* 47, no. 3 (2013): 819-837.
49. **Ma, Xiaojuan**, Christiane Fellbaum, and Perry Cook. "Semantic labeling of nonspeech audio clips." *EURASIP Journal on Audio, Speech, and Music Processing* 2010, no. 1 (2010): 404860.

## Refereed Papers in Conference Proceedings

1. Yuan, Kangyu, Hehai Lin, Shilei Cao, Zhenhui Peng, Qingyu Guo, and **Xiaojuan Ma**. "CriTrainer: An Adaptive Training Tool for Critical Paper Reading". In *Proceedings of the 36th Annual ACM Symposium on User Interface Software and Technology (UIST '23)*. Article 44, 1–17.
2. Peng, Zhenhui, Xingbo Wang, Qiushi Han, Junkai Zhu, **Xiaojuan Ma**, and Huamin Qu. "Storyfier: Exploring Vocabulary Learning Support with Text Generation Models". In *Proceedings of the 36th Annual ACM Symposium on User Interface Software and Technology (UIST '23)*. Article 46, 1–16.
3. Ma, Shuai, Ying Lei, Xinru Wang, Chengbo Zheng, Chuhan Shi, Ming Yin, and **Xiaojuan Ma**. "Who Should I Trust: AI or Myself? Leveraging Human and AI Correctness Likelihood to Promote Appropriate Trust in AI-Assisted Decision-Making". In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*. ACM, Article 759, 1–19.
4. Zheng, Chengbo, Yuheng Wu, Chuhan Shi, Shuai Ma, Jiehui Luo, and **Xiaojuan Ma**. "Competent but Rigid: Identifying the Gap in Empowering AI to Participate Equally in Group Decision-Making". In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*. ACM, Article 351, 1–19.
5. Liu, Chengzhong, Shixu Zhou, Dingdong Liu, Junze Li, Zeyu Huang, and **Xiaojuan Ma**. "CoArgue : Fostering Lurkers' Contribution to Collective Arguments in Community-based QA Platforms". In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*. ACM, Article 271, 1–17.

6. Guo, Qingyu, Chao Zhang, Hanfang Lyu, Zhenhui Peng, and **Xiaojuan Ma**. “What Makes Creators Engage with Online Critiques? Understanding the Role of Artifacts’ Creation Stage, Characteristics of Community Comments, and their Interactions”. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*. ACM, New York, NY, USA, Article 556, 1–17.
7. Shi, Chuhan, Yicheng Hu, Shenan Wang, Shuai Ma, Chengbo Zheng, **Xiaojuan Ma**, and Qiong Luo. “RetroLens: A Human-AI Collaborative System for Multi-step Retrosynthetic Route Planning”. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*. ACM, Article 770, 1–20.
8. Wang, Sitong, Savvas Petridis, Taeahn Kwon, **Xiaojuan Ma**, and Lydia B Chilton. “PopBlends: Strategies for Conceptual Blending with Large Language Models”. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*. ACM, Article 435, 1–19.
9. Yanqi Jiang, Xianghua(Sharon) Ding, **Xiaojuan Ma**, Zhida Sun, and Ning Gu. “IntimaSea: Exploring Shared Stress Display in Close Relationships”. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*. ACM, Article 428, 1–19.
10. Guo, Qingyu, Siyuan Zhou, Yifeng Wu, Zhenhui Peng, and **Xiaojuan Ma**. “Understanding and Modeling Viewers’ First Impressions with Images in Online Medical Crowdfunding Campaigns”. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22)*. Article 361, 1–20.
11. Ding, Zijian, Jiawen Kang, Tinky Oi Ting HO, Ka Ho Wong, Helene H Fung, Helen Meng, and **Xiaojuan Ma**. “TalkTive: A Conversational Agent Using Backchannels to Engage Older Adults in Neurocognitive Disorders Screening”. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22)*. Article 304, 1–19.
12. Ma, Shuai, Taichang Zhou, Fei Nie, and **Xiaojuan Ma**. “Glancee: An Adaptable System for Instructors to Grasp Student Learning Status in Synchronous Online Classes”. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22)*. Article 313, 1–25.
13. Yang, Wenjie, Zhiyang Wu, Nga Yiu Mok, and **Xiaojuan Ma**. “How to Save Lives with Microblogs? Lessons From the Usage of Weibo for Requests for Medical Assistance During COVID-19”. *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22)*. Article 70, 1–18.
14. Zheng, Chengbo, Dakuo Wang, April Yi Wang, and **Xiaojuan Ma**. “Telling Stories from Computational Notebooks: AI-Assisted Presentation Slides Creation for Presenting Data Science Work”. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22)*. Article 53, 1–20.
15. Shi, Chuhan, Zhihan Jiang, **Xiaojuan Ma**, and Qiong Luo. “A Personalized Visual Aid for Selections of Appearance Building Products with Long-term Effects”. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22)*. Article 74, 1–18.
16. Xie, Laixin, Ziming Wu, Peng Xu, Wei Li, **Xiaojuan Ma**, and Quan Li. “RoleSeer: Understanding Informal Social Role Changes in MMORPGs via Visual Analytics”. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22)*. Article 85, 1–17.
17. Zhao, Zhenjie, Yufang Hou, Dakuo Wang, Mo Yu, Chengzhong Liu, and **Xiaojuan Ma**. “Educational Question Generation of Children Storybooks via Question Type Distribution Learning and Event-centric Summarization”. In *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (ACL)*, pages 5073–5085, Dublin, Ireland. Association for Computational Linguistics. (2022)
18. Xu, Ying, Dakuo Wang, Mo Yu, Daniel Ritchie, Bingsheng Yao, Tongshuang Wu, Zheng Zhang, Toby Li, Nora Bradford, Branda Sun, Tran Hoang, Yisi Sang, Yufang Hou, **Xiaojuan Ma**, Diyi Yang, Nanyun Peng, Zhou Yu, and Mark Warschauer. “Fantastic Questions and Where to Find Them: FairytaleQA – An Authentic Dataset for Narrative Comprehension.” In *Proceedings of the 60th Annual Meeting of the*

- Association for Computational Linguistics (ACL)*, pages 447–460, Dublin, Ireland. Association for Computational Linguistics. (2022)
19. Liu, Chengzhong, Shixu Zhou, Yuanhao Zhang, Dingdong Liu, Zhenhui Peng, and **Xiaojuan Ma**. “Exploring the Effects of Self-Mockery to Improve Task-Oriented Chatbot’s Social Intelligence”. In *Designing Interactive Systems Conference (DIS ’22)*, June 13–17, 2022, Virtual Event. ACM, New York, NY, USA, 15 pages. (2022)
  20. Lu, Zhicong, Peng Tan, Yi Ji, and **Xiaojuan Ma**. “The Crafts+Fabrication Workshop: Engaging Students with Intangible Cultural Heritage-Oriented Creative Design”. In *Designing Interactive Systems Conference (DIS ’22)*, June 13–17, 2022, Virtual Event. ACM, New York, NY, USA, 13 pages. (2022)
  21. Yang, Wenjie, Sitong Wang, Zhenhui Peng, Chuhan Shi, **Xiaojuan Ma**, and Diyi Yang. “Know it to Defeat it: Exploring Health Rumor Characteristics and Debunking Efforts on Chinese Social Media during COVID-19 Crisis”. In *Proc. AAAI ICWSM 2022*. (2022)
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  12. Yang, Yang, **Xiaojuan Ma**, and Pascale Fung. "Perceived Emotional Intelligence in Virtual Agents." In *Extended Abstracts of the 2017 ACM CHI Conference on Human Factors in Computing Systems*, (2017). pp. 2255-2262.
  13. Zhu, Fengyuan, Ke Fang, and **Xiaojuan Ma**. "Exploring the Effects of Strategy and Arousal of Cueing in Computer-Human Persuasion." In *Extended Abstracts of the 2017 ACM CHI Conference on Human Factors in Computing Systems*, (2017). pp. 2276-2283.
  14. Wang, Yun, **Xiaojuan Ma**, Qiong Luo, and Huamin Qu. "Data Edibilization: Representing Data with Food." In *Proc. the 2016 ACM CHI Conference Extended Abstracts on Human Factors in Computing Systems*, (2016). pp. 409-422.
  15. Cattle, Andrew and **Xiaojuan Ma**. "Effects of Semantic Relatedness between Setups and Punchlines in Twitter Hashtag Games." In *Proc. the Workshop on Computational Modeling of People's Opinions, Personality, and Emotions in Social Media (PEOPLES)*, (2016). pp. 70-79.
  16. Wong, Gary KW, Kening Zhu, **Xiaojuan Ma**, and John Huen. "The Development of Internationalized Computational Thinking Curriculum in Hong Kong Primary Education." In *Proc. the 47th ACM Technical Symposium on Computing Science Education*, (2016). pp. 685-685.
  17. Huang, Meiyu, Yiqiang Chen, Wen Ji, Xiaojuan Ma, Jing Zhang, Yuguang Fan, and Lianjun Dai. "CaneFitter: investigation on appropriate cane selection and proper cane use for the elderly." In *Proc. the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing (Ubicomp): Adjunct Publication*, (2015). pp. 217-220.
  18. Chen, Zhenyu, Yiqiang Chen, Lisha Hu, Shuangquan Wang, Xinlong Jiang, **Xiaojuan Ma**, Nicholas D. Lane, and Andrew T. Campbell. "ContextSense: unobtrusive discovery of incremental social context using dynamic bluetooth data." In *Proc. the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing (Ubicomp): Adjunct Publication*, (2014). pp. 23-26.
  19. **Ma, Xiaojuan**, Christiane Fellbaum, and Perry R. Cook. "A multimodal vocabulary for augmentative and

- alternative communication from sound/image label datasets." In *Proc. the NAACL HLT 2010 Workshop on Speech and Language Processing for Assistive Technologies (SLPAT)*, (2010). pp. 62-70
20. **Ma, Xiaojuan**. "An online multimedia language assistant for people with aphasia and other language barriers." *ACM SIGACCESS Accessibility and Computing* 96 (2010): 46-49.
  21. **Ma, Xiaojuan** and Perry R. Cook. "Creating and evaluating a video vocabulary for communicating verbs for different age groups." In *Proc. the 10th international ACM SIGACCESS conference on Computers and accessibility (ASSETS)*, (2018). pp. 253-254.
  22. Nikolova, Sonya and **Xiaojuan Ma**. "Mobile Communication Support for People with Speech and Language Disabilities." In *Proc. ACL2008 Mobile Language Processing Workshop*, (2008).

## Patents

1. Jianmin Wang, Fang You, Chingman Au Yeung, **Xiaojuan Ma**, and Xiuqiang He. (2019, granted). Air Navigation Aid and Navigation Equipment. CN104807470B.
2. **Ma, Xiaojuan** and Wenyuan Dai. (2016, 2018, granted). Touch-control method, related apparatus, and terminal device. US9519424B2, CN104750401B.
3. Au Yeung, Ching Man, **Xiaojuan Ma**, and Wing Ki Leung. (2018, granted). Mobile Terminal Alarm Method and Apparatus. US10043375B2, CN104933825B.
4. **Ma, Xiaojuan**, Yuan Fang, and Wenyuan Dai. (2017, granted). Optimization operation method and apparatus for terminal interface. CN104750400B
5. **MA, Xiaojuan**, Wing Ki Leung, Ching Man Au Yeung. (2017, granted). An ophthalmic device and method for tracking. CN104750232B
6. Sun, Mingfei, Bei Shi, Qiang Fu, **Xiaojuan Ma**. (2019, in Chinese Patent filing process). 物理仿真下的游戏人物行走动作的自适应任务重定向技术. S19P1877.
7. Xia, Meng, Palaniyappan Velumani, Yong Wang, Huamin Qu, **Xiaojuan Ma**. (2020, US Provisional Patent Application No. 63/102,508). QLens: Visual Analytics of Multi-step Problem-solving Behaviors for Improving Question Design.

## Graduated PhD and MPhil Students

<b>Chuhan Shi, PhD</b>	Winter 2018 – Spring 2023
Prof. Qiong Luo as primary supervisor, Associate Professor (to start) at Southeastern University	
<b>Reza Hadi Mogavi, PhD</b>	Winter 2018 – Spring 2023
Prof. Pan Hui as primary supervisor, currently postdoc at University of Waterloo	
<b>Wenjie (Chris) Yang, MPhil</b>	Fall 2020 – Summer 2022
Visiting researcher at CMU	
<b>Feng Han, PhD</b>	Fall 2018 – Spring 2022
Prof. Jiheng Zhang as primary supervisor, currently Analyst at CICC	
<b>Zhenhui Peng, PhD</b>	Fall 2017 – Spring 2021
SENG Top RPg award recipient, currently Assistant Professor at Sun Yat-sen University	
<b>Man Ching Ko, MPhil (TLE)</b>	Spring 2020 – Spring 2021
<b>Taewook Kim, MPhil</b>	Fall 2019 – Fall 2020
SENG Top RPg award recipient, currently Assistant Professor at Sun Yat-sen University	
<b>Zhenjie Zhao, PhD</b>	Fall 2016 – Summer 2020
Currently assistant professor at Nanjing University of Information Science and Technology	
<b>Ziming Wu, PhD</b>	Fall 2016 – Summer 2020
Currently researcher at Tencent	



<b>Zhida Sun, PhD</b> Currently Assistant Professor at Shenzhen University	<i>Fall 2016 – Summer 2020</i>
<b>Meng Xia, PhD</b> SENG Top RPg award recipient, Prof. Huamin Qu as primary supervisor, currently postdoc at CMU	<i>Fall 2017 – Summer 2020</i>
<b>Taewook Kim, MPhil</b> Currently research intern at KAIST, PhD student at Northwestern University	<i>Fall 2018 – Summer 2020</i>
<b>Mingfei Sun, PhD</b> SENG Top RPg award recipient, currently Assistant Professor at Manchester University	<i>Spring 2016 - Spring 2020</i>
<b>Quan Li, PhD</b> SENG Top RPg award recipient with Prof. Huamin Qu, assistant professor at ShanghaiTech University	<i>Fall 2015 - Fall 2018</i>
<b>Andrew Cattle, PhD</b> HKPFS award recipient, currently language engineer at Amazon	<i>Fall 2015 - Fall 2018</i>
<b>Emily Yang Yang, MPhil (TLE)</b> TLE MPhil student, Prof. Pascale Fung as secondary supervisor, senior UX researcher at Mach49	<i>Fall 2015 - Summer 2017</i>
<b>Wenyuan Dai, PhD</b> Prof. Qiang Yang as primary advisor, currently general manager of 4Paradigm Corp.	<i>2019</i>
<b>Jinliang Deng, MPhil</b> Prof. Qiang Yang as primary advisor, currently PhD student at University of Technology, Sydney	<i>2019</i>
<b>Xiang Zhang, MPhil</b> Prof. Qiang Yang as primary advisor, currently Machine Learning Engineer at Tencent	<i>2019</i>

## Graduate Advisees

<b>Ziqi Pan, PhD program</b> HKPFS recipient	<i>Since Fall 2023</i>
<b>Zuyu Xu, PhD program</b> HKPFS recipient	<i>Since Fall 2023</i>
<b>Yuanhao Zhang, PhD program</b> HKPFS recipient	<i>Since Fall 2023</i>
<b>Junze Li, PhD program</b> Redbird Scholarship recipient	<i>Since Fall 2022</i>
<b>Dingdong Liu, PhD program</b> Prof. Fugee Tsung as co-supervisor	<i>Since Fall 2022</i>
<b>Hanfang Lyu, PhD program</b> Prof. Fugee Tsung as co-supervisor	<i>Since Fall 2022</i>
<b>Jiehui Luo, MPhil program</b> Asian Future Leaders Scholarship (AFLSP) recipient	<i>Since Fall 2022</i>
<b>Zeyu Huang, PhD program</b>	<i>Since Fall 2021</i>
<b>Chengzhong Liu, PhD program</b> HKPFS recipient	<i>Since Fall 2020</i>
<b>Shuai Ma, PhD program</b> Redbird scholarship recipient	<i>Since Fall 2020</i>
<b>Qian Zhu, PhD program</b>	<i>Since Fall 2020</i>
<b>Chengbo Zheng, PhD program</b>	<i>Since Fall 2020</i>
<b>Qingyu Guo, PhD program</b> RedBird Academic Excellence Award recipient	<i>Since Fall 2020</i>

## Undergraduate Advisees

<b>FYT-MXJ1:</b> GUO Bincan (1 student)	2023-2024
<b>FYP-MXJ2:</b> CHEN Shihao, TAN Weile, ZHAO Puxuan (3 students)	2023-2024
<b>FYP-MXJ3:</b> TSE Hoi Chun, WONG Hei Tung, TANG Tsz Ying (3 students)	2023-2024
<b>FYP-MXJ1:</b> ZHANG Yuanhao, LI Wenbo (2 students)	2022-2023
<b>FYT-MXJ2:</b> WU Zhiyang (1 student)	2022-2023
<b>FYP-MXJ3:</b> WU Tai Ling, LEE Hao-yu (2 students)	2022-2023
<b>FYP-MXJ4:</b> LAU Tsz Ping, WONG Yuk Kit, CHOI Man Lik, TSANG Sze Lim (4 students)	2022-2023
<b>FYP-MXJ1:</b> ZHANG Nandi, ZHONG Dingyan (2 students)	2021-2022
<b>FYP-MXJ2:</b> LIU Dingdong, ZHOU Shixu, LYU Hanfang (3 students)	2021-2022
<b>FYP-MXJ3:</b> CHAN Ching Yiu, HO Chi Hong, LOK Tsun Man (3 students)	2021-2022
<b>FYP-MXJ1:</b> SONG Renhe, ZHUANG Xiang, ZHOU Zhuorui, HUANG Zeyu (4 students)	2020-2021
<b>FYP-MXJ2:</b> TSE Ming Kei, HO Chun To, WONG Yik Cheung, LI Wang Hon (4 students)	2020-2021
<b>FYT-MXJ3:</b> LEE Ting Ting (1 students)	2020-2021
<b>FYP-MXJ4 (Co-Op):</b> HUANG Yi-feng (1 students)	2020-2021
<b>FYT-MXJ5:</b> Amanda Alodia GUITO (1 students)	2020-2021
<b>FYP-MXJ1:</b> KANG Youwen, LIU Chengzhong (2 students)	2019-2020
<b>FYT-MXJ2:</b> LIN Shuya (1 students)	2019-2020
<b>FYT-MXJ3:</b> LIN Chuan-en (1 students)	2019-2020
<b>FYP-MXJ1:</b> CHANG Hiu Tung, HUANG Zhengyuan, LIU Yan Ho, NG Mai Nguyen Thao (4)	2018-2019
<b>FYP-MXJ2:</b> CHONG Wai Yeung, FONG Yik Yeung, HO Wing Chun, LO Ki Lok (4 students)	2018-2019
<b>FYP-MXJ3:</b> KOO Tin Lok, OR Ka Po (2 students)	2018-2019
<b>FYP-MXJ1:</b> FUNG Yuk Cheung, TAM Chak Kuen (2 students)	2017-2018
<b>FYP-MXJ2:</b> CHIU Ho Yeung, WONG Man Nok, WONG Tsz Ching, WU Wang Hin (4 students)	2017-2018
<b>FYP-MXJ3:</b> CHEN Yuan, HU Zeou, LIANG Zhibo, ZHANG Ziyao (4 students)	2017-2018
<b>FYP-MXJ5:</b> WONG Chak Ho (1 students)	2017-2018
<b>FYP-MXJ1:</b> AHMAD Suhaib, BHATTI Hamza Irfan (2 students)	2016-2017
<b>FYP-MXJ2:</b> LO Ho Kai (1 students)	2016-2017
<b>UROP:</b> ZHAO Bolin (1 project, 1 student) Fall 2023-2024	
<b>UROP:</b> GUO Meichen, LIANG Danxuan, ZENG Yuhang, YANG Dongjie (4 students)	Summer 2022-2023
<b>UROP:</b> ZHAO Yubo, ZHANG Lveyang, YUNG Ka Shing, LIANG Danxuan, ZENG Yuhang, YANG Dongjie (6 students)	Spring 2022-2023
<b>UROP:</b> DOU Peihao, YAO Chongchong, BAI Yihan, XU Minrui, KIM Justin Juho, JIA Feiyue, XU Zian, YAO Chongchong, DOU Peihao, JIA Feiyu, KIM Justin Juho (11 students)	Fall and Summer 2021-2022
<b>UROP:</b> MOK Nga Yiu, WU Zhiyang, CHEN Zixin, ZHOU Siyuan, WU Yifeng, XU Boran, LIU Yuzhi, ZHOU Taichang, ZHANG Yuanhao (9 students)	Summer 2020-2021
<b>UROP:</b> CHEN Zixin, GUO Bingcan, LIU Dingdong, LIU Yuzhi, NAN Xi, XU Mingshi, YIN Zhuohao, YU Yiduo, ZHANG Yuanhao, ZHOU Taichang (10 students)	Spring 2020-2021
<b>UROP:</b> GUO Bingcan, ZHOU Yuran, CHAO Chung-chi, TSANG Cheuk Nam, ZHANG Yuanhao (5 students)	Fall 2020-2021
<b>UROP:</b> NIE Fei, ZHAO Yankun, ZHOU Yuran (3 students)	Summer 2019-2020
<b>UROP:</b> ZHAO Yankun, WU Yongjin, XU Muyu, JIANG Taoxi (4 students)	Spring 2019-2020
<b>UROP:</b> PUYANG Huancheng, WU Bohuai, XIA Zihan, DING Shanhe (4 students)	Fall 2019-2020
<b>UROP:</b> SEKHON Sanbir Singh, WU Bohuai (2 students)	Summer 2018-2019

<b>UROP:</b> YU Yuelin, ZHA Dongkai, LIANG Yuyi, GOEL Tanmay (4 students)	<i>Spring 2018-2019</i>
<b>UROP:</b> RASTOGI Tanya (1 students)	<i>Fall 2018-2019</i>
<b>UROP:</b> CHEN Yuan, LIANG Zhibo (2 students)	<i>Fall 2017-2018</i>
<b>UROP:</b> WU Tan Tania, CHANG Yingshan, PRATAMA Kevin, FENG Zihan, LI Xiang, XU Muyu, FAN Ziqian, DAS Prasenjit, CHEN Yuan, LIANG Zhibo (10 students)	<i>Summer 2016-2017</i>
<b>IIM:</b> Ngai Yan CHEUNG (1 students)	<i>Since 2020</i>
<b>IIM:</b> Wai Lun WONG (1 students)	<i>Since 2019</i>
<b>IIM:</b> Ming Yin CHAN (1 students)	<i>2015-2019</i>
<b>Independent Work:</b> (a total of 31 students)	<i>2016-2021</i>

## Courses

<b>COMP3711 UG Design and Analysis of Algorithms</b>	<i>Spring 2018-20</i>
<b>COMP4461 UG Human-Computer Interaction (HCI)</b>	<i>Spring 2022-23, Fall 2017-20</i>
<b>CSIT6000N MSc IT Advanced Topics in Human-Computer Interaction</b>	<i>Spring 2022</i>
<b>COMP4462 UG Data Visualization</b>	<i>Fall 2021-23</i>
<b>COMP4901G UG Hot Topics in HCI</b>	<i>Spring 2016, Fall 2016</i>
<b>COMP6613A PG Hot Topics in HCI</b>	<i>Fall 2015, Spring 2017</i>
<b>IELM4320 Design Thinking</b>	<i>Summer 2016, Summer 2017</i>

## Professional Activities and Referee Service

<b>Co-Editor</b> , PACM for Conference on Computer Supported Cooperative Work (CSCW)	<i>2024</i>
<b>Associate Chair</b> , ACM Conference on Human Factors in Computing Systems (CHI)	<i>2024</i>
<b>Subcommittee Co-Chair</b> , ACM Conference on Human Factors in Computing Systems (CHI)	<i>2023</i>
<b>Steering Committee</b> , ACM Conference on Mobile Human-Computer Interaction (MobileHCI)	<i>2023</i>
<b>Co-Editor</b> , PACM for Conference on Computer Supported Cooperative Work (CSCW)	<i>2023</i>
<b>Award Committee</b> , ACM Conference on Computer Supported Cooperative Work (CSCW)	<i>2023</i>
<b>General Co-Chair</b> , ACM Conference on Mobile Human-Computer Interaction (MobileHCI)	<i>2022</i>
<b>Virtual Conference Co-Chair</b> , AAAI Conference on Web and Social Media (ICWSM)	<i>2022</i>
<b>Subcommittee Co-Chair</b> , ACM Conference on Human Factors in Computing Systems (CHI)	<i>2022</i>
<b>Senior Program Committee</b> , AAAI Conference on Artificial Intelligence	<i>2022</i>
<b>Special Issue Co-Editor</b> , ACM Transactions on Human-Computer Interaction (TOCHI)	<i>2021</i>
<b>Program Co-Chair</b> , International Workshop on Human-Engaged Computing (IWHEC)	<i>2021</i>
<b>SIGs Co-Chair</b> , ACM Conference on Human Factors in Computing Systems (CHI)	<i>2021</i>
<b>Program Committee</b> , The Web Conference (WWW)	<i>2021</i>
<b>Associate Chair</b> , ACM Conference on Human Factors in Computing Systems (CHI)	<i>2020</i>
<b>Program Committee</b> , The Web Conference (WWW)	<i>2020</i>
<b>Workshop Co-Organizer</b> , AI for Adaptive User Interface (AI4AUI) workshop in ACM IUI	<i>2019</i>
<b>Associate Chair</b> , ACM Conference on Human Factors in Computing Systems (CHI)	<i>2019</i>
<b>Tutorial Co-Chair</b> , International Conference on Affective Computing & Intelligent Interaction	<i>2019</i>
<b>Special Issue Co-Editor</b> , CCF Transactions on Pervasive Computing and Interaction	<i>2019</i>
<b>Workshop Co-Organizer</b> , Healthcare workshop in ACM CHI	<i>2019</i>
<b>Program Committee</b> , IEEE International Conference on Healthcare Informatics (ICHI)	<i>2019</i>
<b>Associate Chair</b> , ACM Conference on Human Factors in Computing Systems (CHI)	<i>2018</i>
<b>Demo Co-Chair</b> , IEEE International Conference on Artificial Intelligence and Virtual Reality	<i>2018</i>
<b>Program Committee</b> , Association for the Advancement of Artificial Intelligence (AAAI)	<i>2018</i>

<b>Program Committee</b> , International Joint Conference on Artificial Intelligence (IJCAI)	2017
<b>Associate Chair</b> , ACM Conference on Human Factors in Computing Systems (CHI)	2017
<b>Associate Chair</b> , ACM Designing Interactive Systems (DIS)	2016 - 2017
<b>Technical Co-Chair</b> , Chinese CHI2017	2017
<b>Workshop Co-Organizer</b> , AIVR workshop in SIGGRAPH Asia	2017
<b>Executive Vice President</b> , International Chinese Association of Human Computer Interaction	2016 -
<b>Secretary General</b> , International Chinese Association of Human Computer Interaction	2014 - 2016
<b>Board</b> , International Chinese Association of Human Computer Interaction	2012 - 2016
<b>Publicity Chairs</b> , International Symposium on Interactive Technology and Ageing Populations	2016
<b>Demo/Poster Co-Chair</b> , IEEE CPSCOM2016	2016
<b>Program Committee</b> , IEEE CBDCOM 2016 Big Data Visualization Track	2016
<b>Associate Chair</b> , Work-in-Progress Track, <i>CHI</i> (2012~ 2015)	2012 - 2015
<b>Panel &amp; Tutorial Chair</b> , IEEE Int. Conf. on Ubiquitous Intelligence & Computing (UIC 2015)	2015
<b>Program Committee</b> , Chinese CHI2015	2015
<b>Co-Organizer</b> , Designing Tools for Crafting Interactive Artifacts Workshop, SIGGRAPH Asia	2014
<b>Industrial Panel Chair</b> , Chinese CHI2014	2014
<b>Program Committee</b> , Asia Pacific Conference on Computer Human Interaction (APCHI 2013)	2013
<b>Program Committee</b> , CTS (Collaboration Technologies and Systems) CR-HRI	2012 - 2013
International Workshop on Collaborative Robots and Human Robot Interaction	
<b>Planning Committee</b> , New Jersey World Usability Day 2008, NJ	2008

## Departmental Services

<b>Associate Head</b> for Research and Knowledge Transfer (and member of Executive Committee)	2022-
<b>Search and Appointments Committee</b>	2023-
<b>Research Committee</b>	2022-
<b>MScIT Committee</b>	2022-
<b>Research Lab Space Committee</b>	2023-
<b>PG Committee Coordinator</b> (and member of Executive Committee)	2021 - 2023
<b>Merit Review Committee</b>	2021 - 2022
<b>CPEG Committee</b>	2018 - 2021
<b>Facility Committee</b>	2019 - 2021
<b>Curriculum and Teaching Innovation Committee (CaTIC)</b>	2018 - 2019

## University and School Services

<b>Human and Artefacts Research Ethics Committee</b>	2021 - 2023
<b>Search Committee</b> , for the Director of the Big Data Institute	2023
<b>Search Committee</b> , for the Head of the Dept. Computer Science and Engineering	2021 - 2022
<b>Search Committee</b> , for the Director of the Cheng Kar-Shun Robotics Institute (RI)	2021 - 2022
<b>EMIA Ad Hoc Search and Appointments Committee</b>	2022 - 2023
<b>SENG First Year Faculty Advisor</b>	2018 - 2020
<b>IPO Faculty Advisor</b>	2020 -
<b>JUPAS Interview</b>	2018, 2020
<b>SENG Information Day</b>	2017 - 2018
<b>University WISE Camp</b> , co-organizer	2016

## Invited Talks

<b>Invited Speaker and Panelist</b> , Hong Kong International Computer Conference (HKICC)	09/2023
"Collaborative AI for Science: Supporting Stochastic Multi-criteria Decision Making in Scientific Research"	
<b>Invited Speaker</b> , Tongji University iDVX Seminar Series	07/2023
"Data-Driven Approach to Creativity with Human-Engaged Computing: From Big Data to Big Idea"	
<b>Invited Speaker</b> , ShanghaiTech SIST Distinguished Seminar Series	07/2023
"Data-Driven Approach to Creativity with Human-Engaged Computing: From Big Data to Big Idea"	
<b>Invited Speaker</b> , KAIST GSDS Seminar Series	05/2023
"Empowering and Cultivating Users' Higher-Order Thinking Skills with Human-Engaged AI"	
<b>Invited Speaker</b> , HBTRI Frontier Technologies Seminars 2022	02/2022
"Towards a Future of Human-Engaged AI: Social Manifestation of Human-Robot Interaction"	
<b>Invited Speaker</b> , ACM SIGKDD 2021 Applied Data Science (ADS)	08/2021
"Data-Driven Approach to Creativity in Design with Human-Engaged AI"	
<b>Invited Speaker</b> , China Vis 2021	2021
"Exploring Interaction Space of Data Displays"	
<b>Invited Speaker and Panelist</b> , China VR 2021 International Education Forum	2021
"Virtual Reality as a Situated Learning Tool"	
<b>Invited Speaker</b> , GAMES: Graphics And Mixed Environment Seminar	2021
"When VIS Meets HCI: A Life Cycle of User-Centric Visualization Design"	
<b>Invited Speaker</b> , HCI Speaker Series at Penn State University	04/2021
"Empowering and Nurturing Users' Higher-Order Thinking Skills with Human-Engaged AI"	
<b>Mentor and Career Development Panelist</b> , CSCW Winter School, Taipei, Taiwan	12/2020
<b>Invited Speaker</b> , "人机共协, 科技向善" ICACHI 云论坛, Online	05/2020
"Manifesting AI Engagement in Human-Engaged Computing"	
<b>Invited Speaker</b> , 物流科技说, Online	05/2020
"探索数据和知识在智慧城市解决方案中的迁移再定义", 菜鸟   数智科技	
<b>Invited Speaker</b> , "海峡边缘对话边缘计算" 技术论坛, Online	04/2020
"边缘计算下的医患共决策: 机遇和挑战", 中国计算机学会青年科技论坛 (YOCSEF) 厦门分论坛	
<b>Invited Speaker</b> , IWHEC 2020, Kochi, Japan	01/2020
"Manifesting AI Engagement in Human-Engaged Computing"	
<b>Keynote Speaker</b> , User Experience Conference (UEC) 2019, Shenzhen, China	12/2019
"Computational Design: A Data-Driven Approach"	
<b>Invited Speaker</b> , CHI2019 Workshop on HCI in China	04/2019
"Harmonization, Cultivation, and Interaction: Promoting HCI Community in Greater China"	
<b>Panelist</b> , Finland-Hong Kong Summit on AI and 5G, Hong Kong	03/2019
"AI-Human Interactions and Interfaces"	
<b>Invited Speaker</b> , Early Career Spotlight, IJCAI-EJCAI, Stockholm, Sweden	07/2018
"Towards Human-Engaged AI"	
<b>Panelist</b> , CHI2018 Workshop on HCI in China	04/2019
"Human-Centered AI Design"	
<b>Seminar</b> , Seoul National University	10/2017
"Human-Computer Interaction Initiative @ HKUST"	
<b>EDC Seminar Speaker</b> , Cambridge University, UK	08/2017
"Designing Emotional Intelligence: an Experience-oriented, Data-driven Approach to Multimodal Affective"	

Computing”

- Human-Computer Interaction Seminar Speaker**, Microsoft Research Asia, Beijing, China 03/2012  
“When Words are not Enough: How Multimedia can Bridge Communication Breakdowns”
- Invited Speaker and Panelist**, Educational Symposium, SIGGRAPH ASIA, Macau 12/2016  
“Engagement in VR/AR-Empowered Education”
- Keynote Speaker**, Clear Water Bay Entrepreneurship Forum, Hong Kong 07/2016  
“Embodied Immersion: Multimodal Interaction in Virtual Reality”
- Invited Speaker and Panelist**, Symposium on Minecraft Education, Hong Kong 05/2016  
“From Constructive Education to Destructive Innovation”
- Invited Speaker**, Workshop on Mining Social Networks, NYU Shanghai, China 10/2015  
“Investigating Approach and Herd Behaviors in Social Commerce”
- Invited Speaker and Panelist**, HHME, Huludao, China 09/2015  
“Research in Human-Computer Interaction”
- Invited Speaker**, Information and Interaction Design Submit, Beijing, China 12/2014  
“The Art of Persuasion in Information, Interaction, and Service Design”
- Keynote Speaker**, Interaction and UX Design Forum, Shanghai, China 09/2014  
“From Broken to Breaking: Recycle, Reuse, and Repurpose Design” Tongji Design Week
- Keynote Speaker**, Huxiu.com Innovation Festival, Shenzhen, China 09/2014  
“How Computer Computes and Persuade your Emotion: The Story of Danmu”
- Computing Seminar Speaker**, Hong Kong University, Hong Kong University of Science and Technology,  
Chinese University of Hong Kong, Hong Kong Polytechnic University,  
City University of Hong Kong 2013~2014  
“Leveraging Crowds to Design Multimedia-Mediated Communication Support”
- Human-Computer Interaction Seminar Speaker**, Microsoft Research Asia, Beijing, China 03/2012  
“When Words are not Enough: How Multimedia can Bridge Communication Breakdowns”
- Institute of HCI and Media Integration Seminar Speaker**, Tsinghua University, China 03/2012  
“When Words are not Enough: How Multimedia can Bridge Communication Breakdowns”
- Interaction Design at Disney Meeting Speaker**, Disney Research, Pittsburgh, PA 04/2011  
“Communication across Barriers”
- Information Systems Research Seminar Speaker**, Information Systems, NUS, Singapore 10/2010  
“What is Worth a Thousand Words?”
- GCI/HFE HCI Research Seminar Speaker**, Infocomm Research, A\*STAR, Singapore 08/2010  
“SoundNet: An Environmental Sound Augmented Online Language Assistant Bridging Communication Barriers”
- Invited Speaker at AT&T Research Lab Talk Series**, AT&T Research, NJ 02/2010  
“A Multimodal Vocabulary for Augmentative and Alternative Communication”
- ECE and CAIP Research Seminar Speaker**, Rutgers University, NJ 01/2010  
“An Online Multimedia Augmented Language Assistant for People with Aphasia and Other Language Barriers”
- Guest speaker at Computer Graphics Seminar Speaker**, University College of London, UK 05/2009  
“When Words are not Enough: Online Multimedia Language Assistant for People with Aphasia”

## Other Presentations

**Workshop at CHI 2021**, (Social VR). “Quality of Experience (QoE) Evaluation of Locomotion Methods on Desktop Virtual Reality: Comfort, Effort and Enjoyment.”

**Workshop at IUI 2021**, (Exploratory Search and Interactive Data Analytics (ESIDA)). “Exploring the “Double-Edged Sword” Effect of Auto-Insight Recommendation in Exploratory Data Analysis.”

**Poster at CSCW 2019**, “GremoBot: Exploring Emotion Regulation in Group Chat.”

**Workshop at CHI 2019**, (Unpacking the Infrastructuring Work of Patients and Caregivers around the World). “Community-Sourced Itinerary for HPV Vaccine: A Case Study of the Use of WeChat Group to Reconstruct Healthcare Solution.”

**Poster at ACM Technical Symposium on Computing Science Education 2016**. “The Development of Internationalized Computational Thinking Curriculum in Hong Kong Primary Education.” By Wong, Gary KW, Kening Zhu, **Xiaojuan Ma**, and John Huen.

**Workshop at CHI 2015** (Leveraging and Integrating Eastern and Western Insights into Human Engagement Studies in HCI). “The Art of Engagement: from Calligraphy to Interaction Design.”

**Workshop at CHI 2015** (Beyond Personal Informatics) “Appreciation of Living: Bringing Chinese Aesthetics into Personal Informatics Design.”

**Poster at Ubicomp 2014**, “ContextSense: Unobtrusive Discovering Incremental Contexts using Dynamic Bluetooth Data.”

**ASSETS 2009 Doctoral Consortium** (talk and poster) “An Online Multimedia Language Assistant for People with Aphasia and Other Language Barriers.” The 11<sup>th</sup> ACM SIGACCESS Conference on Computers and Accessibility.

**Poster at ACM Multimedia 2009**, “W2ANE: When Words Are Not Enough – Online Multimedia Language Assistant for People with Aphasia.”

**Poster at ASSETS 2008**, “Creating and Evaluating a Video Vocabulary for Communicating Verbs for Different Age Groups.” The 10<sup>th</sup> ACM SIGACCESS Conference on Computers and Accessibility.

**Poster at New Jersey World Usability Day** in 2007. “ESI-Planner II: A Desktop-PDA Hybrid System for People with Aphasia.”

**Poster at CRA-W Grad Cohort Conference 2006**. “Princeton Aphasia Project: A Desktop-PDA Hybrid System for People with Aphasia.”

## Other Teaching and Advising Experience

<b>Guest Lecturer</b> , HKUST(GZ) Computational Media and Arts (CMA) thrust area Foundations of Computational Media and Arts	<i>Spring 2021</i>
<b>Guest Lecturer</b> , The Central Academy of Fine Arts AI for Arts Series	<i>Spring 2021</i>
<b>Guest Lecturer</b> , Chinese University of Hong Kong, Hong Kong Data Visualization and Sonification in Data Science	<i>Spring 2015~2020</i>
<b>Lecturer</b> , Peking University, China Visualization Summer Camp	<i>Summer 2018, 2019</i>
<b>Lecturer</b> , Nanjing University, China Human-Computer Interaction Summer Camp	<i>Summer 2016</i>
<b>External supervisor</b> , Chinese University of Hong Kong, Hong Kong Undergraduate Final Year Project	<i>09/2014 ~ 07/2015</i>
<b>Guest Lecturer</b> , Hong Kong Polytechnic University, Hong Kong Persuasive Technology in Intelligent Information Systems	<i>Spring 2013</i>
<b>Lecturer</b> , China Computer Federation, Beijing, China Advanced Disciplines Lectures on Visual and Auditory Communication	<i>Spring 2013</i>
<b>Instructor</b> , Carnegie Mellon University, Pittsburgh, PA	<i>Spring 2012</i>

Independent Study (A3 Mini) on Designing and Executing a Research Study <b>Assistant supervisor</b> , National University of Singapore, Singapore Graduate Studies	08/2010 ~ 02/2011
<b>Student supervisor</b> , Princeton University, Princeton, NJ Undergraduate Senior Independent Work	09/2009 ~ 01/2010
<b>Teaching Assistant</b> , Princeton University, Princeton, NJ Information Retrieval, Discovery, and Delivery (with Andrea LaPaugh)	Spring 2010
<b>Student supervisor</b> , Princeton University, Princeton, NJ Advised freshmen Summer Programming Experience Program	06/2008 ~ 09/2008
<b>Teaching Assistant</b> , Princeton University, Princeton, NJ Advanced Programming Techniques (with Brian Kernighan)	Spring 2008
<b>Student supervisor</b> , Princeton University, Princeton, NJ Advised Undergraduate Senior Independent Work	01/2008 ~ 05/2008
<b>Guest Lecturer and Teaching Assistant</b> , Princeton University, Princeton, NJ Human-Computer Interface Technology (with Perry Cook)	Fall 2007

## Selected Outreach and Membership

<b>Senior Member</b> , The Association for Computing Machinery (ACM)	2022 -
<b>Senior Member</b> , The Institute of Electrical and Electronics Engineers (IEEE)	2022 -
<b>Executive Vice President (previously Secretary General)</b> , Interactional Chinese Association of Computer-Human Interaction (ICACHI)	2016 -
<b>Board Member</b> : Interactional Chinese Association of Computer-Human Interaction (ICACHI)	2012 -
<b>Academic Judging Committee Member</b> , HKUST One-Million Competition	2019 - 2020
<b>Think Tank and Judge</b> , HKUST D4E 2016 Spring University Talent Incubation Program	2016
<b>Member of WFA</b> (Women Faculty Association), HKUST	2015 -
<b>Member of GEA</b> (Princeton Graduate Engineering Ambassadors)	2006 - 2010
<b>Member of CSGC</b> (Computer Science Graduate College) in Princeton	2005 - 2010

## Selected Awards

<b>"Impact Recognition Award"</b> , ACM CSCW 2023, Minnesota, USA	10/2023
<b>"Recognition for Contribution to Diversity and Inclusion Award"</b> , ACM CSCW 2023	10/2023
<b>"Method Recognition Award"</b> , ACM CSCW 2022	10/2022
<b>"Honorable Mention Award"</b> ACM Learning @ Scale 2022, USA	06/2022
<b>"Senior Member"</b> The Association for Computing Machinery (ACM)	05/2022
<b>"Senior Member"</b> The Institute of Electrical and Electronics Engineers (IEEE)	04/2022
<b>"Best Paper Award"</b> Chinese CHI 2021, Online	10/2021
<b>"Publishing Award"</b> Japan Society of Kansei Engineering (JSKE) For our book "Cuteness Engineering"	09/2020
<b>"Service Award"</b> , Interactional Chinese Association of Computer-Human Interaction	07/2020
<b>"Honorable Mention Award"</b> ACM CHI 2020, USA	04/2020
<b>"Best Video Award"</b> Chinese CHI 2017, Guanzhou, China	04/2017
<b>"Honorable Mention Award"</b> ACM UbiComp 2016, Germany	09/2016
<b>"Excellent Young (Chinese) leader in HCI Award"</b> , Interactional Chinese Association of Computer-Human Interaction	05/2016
<b>"Honorable Mention Award"</b> ACM CSCW 2015, Vancouver, Canada	03/2015



<b>“Best Paper Award”</b>	IDHF 2014, Japan,	11/2014
<b>“Best Paper Award”</b>	Chinese CHI 2014, Toronto, Canada	05/2014
<b>“Excellent Innovator Award”</b> ,	Huawei Noah’s Ark Lab	06/2014
<b>“Star of 2012 Labs”</b> ,	Huawei Noah’s Ark Lab	04/2014
<b>Computing Innovation Fellows</b> ,	Computing Research Association	09/2010, 09/2011
Post-doc fellowship awarded by National Science Foundation with Carnegie Mellon University		
<b>“Honorable Mention Award”</b>	ACM CHI 2010, Atlanta, GA, USA	05/2010
<b>“Outstanding Graduates of the Year”</b> ,	Tsinghua University	07/2005
<b>Beihai Guo Fa Company Scholarship</b> ,	Tsinghua University	11/2004
<b>Sony Scholarship</b> ,	Tsinghua University	11/2003
<b>Wei Lun Scholarship</b> ,	Tsinghua University	11/2002
<b>“Best student” Award</b>	in Electronic Working Technology Practice, Tsinghua University	08/2002
<b>Second Place in National Physics Competition</b> ,	Tsinghua University	05/2002
<b>“Excellent Student” Scholarship</b> ,	Tsinghua University	09/2001