

Hui Ye

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RESEARCH INTEREST

My research interests lie in the intersection of **Human-Computer Interaction (HCI)** and **Computer Graphics (CG)**. Specifically, my main research focus is on exploring novel mobile AR prototyping and programming tools and techniques for 3D contents and interactions.

EDUCATION

- 09/2017 - **City University of Hong Kong (CityU)**
08/2022 Ph.D. in Creative Media
Thesis: 3D Content and Interaction Prototyping with Mobile Augmented Reality
Supervisor: Prof. Hongbo Fu
Committee: Hongbo Fu, Kening Zhu, Weiyin Ma, Karan Singh
- 09/2012 - **University of Science and Technology of China (USTC)**
06/2016 B.A. in Communication (Guo Moruo Honorary Rank , Top 1.7%)
Minor in Computer Science and Technology

EXPERIENCE

- 09/2022 - **City University of Hong Kong**
Current RGC Postdoctoral Fellow
Supervisor: Prof. Hongbo Fu
- 09/2021 - **City University of Hong Kong**
08/2022 Research Assistant
Supervisor: Prof. Hongbo Fu
- 12/2019 - **Tsinghua University**
04/2020 Institute of HCI and Media Integration
Visiting Ph.D. Student

PULICATIONS

- P1 **Hui Ye**, Jiaye Leng (joint first author), Pengfei Xu, Karan Singh, and Hongbo Fu. ProInterAR: A Visual Programming Platform for Creating Immersive AR Interactions. *In Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems*. ACM, 2024. **(CHI 2024)**
- P2 **Hui Ye**, Jiaye Leng, Chufeng Xiao, Lili Wang, and Hongbo Fu. ProObjAR: Prototyping Spatially-aware Interactions of Smart Objects with AR-HMD. *In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems*. ACM, 2023. **(CHI 2023)**
- P3 **Hui Ye** and Hongbo Fu. ProGesAR: Mobile AR Prototyping for Proxemic and Gestural Interactions with Real-world IoT Enhanced Spaces. *In Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems*. ACM, 2022. **(CHI 2022)**
- P4 **Hui Ye**, Kin Chung Kwan (joint first author), Wanchao Su, and Hongbo Fu. ARAnimator: In-situ Character Animation in Mobile AR with User-defined Motion Gestures. *ACM Transactions on Graphics (TOG): Special Issue for ACM SIGGRAPH 2020*. ACM, 2020. **(SIGGRAPH 2020)**
- P5 **Hui Ye**, Kin Chung Kwan, and Hongbo Fu. 3D Curve Creation on and around Physical Objects with Mobile AR. *IEEE Transactions on Visualization and Computer Graphics*. IEEE, 2021. **(TVCG)**

- P6 Wanchao Su, **Hui Ye**, Shuyu Chen, Lin Gao, and Hongbo Fu. DrawingInStyles: Portrait Image Generation and Editing with Spatially Conditioned StyleGAN. *IEEE Transactions on Visualization and Computer Graphics*. IEEE, 2022. **(TVCG)**
- P7 Xuanyu Wang, **Hui Ye**, Christian Sandor, Weizhan Zhang, and Hongbo Fu. Predict-and-Drive: Avatar Motion Adaption in Room-Scale Augmented Reality Telepresence with Heterogeneous Spaces. *IEEE Transactions on Visualization and Computer Graphics: Special Issue for IEEE ISMAR 2022*. IEEE, 2022. **(TVCG)**
- P8 Yanxiang Zhang and **Hui Ye**. Time-Based Nonlinear Interactive Player. *In Augmented Reality, Virtual Reality, and Computer Graphics: Third International Conference, AVR 2016*. Springer, 2016.
- P9 Yanxiang Zhang, Yun Zhu, and **Hui Ye**. 2015. The Design of an Augmented Reality Based Rigid Body Motion Experiment System. *Applied Mechanics and Materials*. Trans Tech Publications Ltd, 2015.

PATENTS

- PT1 Hongbo Fu, **Hui Ye**, and Chufeng Xiao. Prototyping Applications Of Spatially Aware Smart Objects Using Augmented Reality. U.S. Patent 18/335,559, 2023.
- PT2 Hongbo Fu and **Hui Ye**. Mobile AR Prototyping for Proxemic and Gestural Interactions with Real-world IoT Enhanced Spaces. U.S. Patent 17/810,714, 2022.

SELECTED HONORS & AWARDS

- 2023 Science and Technology Progress Award of Anhui (Third Prize)
- 2022 **RGC Postdoctoral Fellowship**
- 2022 Outstanding Academic Performance Award of CityU
- 2021 Shidi CAD&CG Excellent Student Award
- 2020 Research Tuition Scholarship of CityU
- 2016 **Guo Moruo Scholarship** (Top 1.7%, Highest Honor for USTC Undergraduates)
- 2016 Merit Graduate of Anhui Province & USTC (Top 3%)
- 2016 Outstanding Thesis of USTC
- 2014 Sun Bin Leadership Scholarship of USTC
- 2014 Aegon-Industrial Responsibility Scholarship of USTC
- 2013-15 Outstanding Instructor in “Science and Technology Week” of USTC
- 2013 Gold Award of Excellent Student Scholarship of USTC (Top 5%)
- 2013 Outstanding Young Volunteer of USTC

TALKS

- 05/2023 **ProObjAR: Prototyping Spatially-aware Interactions of Smart Objects with AR-HMD**
Conference Paper Presenter, CHI 2023
- 08/2022 **From Communication to Computer Graphics**
Invited Presenter, Student Colloquium, CAD&CG 2022+2023
- 05/2022 **ProGesAR: Mobile AR Prototyping for Proxemic and Gestural Interactions with Real-world IoT Enhanced Spaces**
Conference Paper Presenter, CHI 2022
- 04/2022 **Mobile AR Prototyping for Proxemic and Gestural Interactions**
Invited Speaker, EAA Youth Academic Forum, Tianjin Fine Arts Institute

- 12/2021 **Exploring Novel Mobile AR Prototyping Techniques and Tools for 3D Contents**
SIGGRAPH Thesis Fast Forward 2021
- 2020-21 **ARAnimator: In-situ Character Animation in Mobile AR with User-defined Motion Gestures**
Invited Speaker, Graphics And Mixed Environment Symposium (GAMES), 09/2021
Invited Speaker, SCM|ACIM Colloquium, CityU, 10/2020
Conference Paper Presenter, SIGGRAPH 2020, 08/2020
- 03/2021 **3D Curve Creation on and around Physical Objects with Mobile AR**
Invited Speaker, IEEE VR 2021
- 03/2021 **In-situ 3D Content Creation in Mobile AR**
Invited Speaker, Affiliated Forum on Human, Technology and Future of IWHEC 2021

TEACHING EXPERIENCE

- 2018-19 Teaching Assistant, SM1103A Introduction to Media Computing, CityU
2018 Teaching Assistant, SM2716 Physical Computing & Tangible Media, CityU

PROFESSIONAL SERVICE

Program Committees

- 2023-24 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW)
2024 Pacific Graphics (PG)
2024 ACM Special Interest Group on Computer Graphics (SIGGRAPH Asia) Emerging Technologies
2024 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp/ISWC) Notes and Briefs
2023-24 ACM Conference on Human Factors in Computing Systems (CHI) Late-Breaking Work
2022 ACM Conference on Human Factors in Computing Systems (CHI) Student Research Competition

Conference Review

- 2024 ACM Special Interest Group on Computer Graphics (SIGGRAPH)
2022-23 ACM Special Interest Group on Computer Graphics (SIGGRAPH Asia)
2020-24 ACM Conference on Human Factors in Computing Systems (CHI): *Special Recognitions for Outstanding Reviews*
2023-24 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW): *Special Recognitions for Outstanding Reviews*
2020/23 Pacific Conference on Computer Graphics and Applications (PG)
2022 ACM Symposium on User Interface Software and Technology (UIST)
2022 ACM International Conference on Mobile Human-Computer Interaction (MobileHCI): *Special Recognitions for Outstanding Reviews*
2021 IEEE Virtual Reality (VR)
2021 IEEE International Conference on Artificial Intelligence and Virtual Reality (AIVR)

Journal Review

- 2024 ACM Transactions on Graphics (TOG)
2024 IEEE Transactions on Mobile Computing (TMC)
2023 Computers & Graphics (C&G)
2023 IEEE Computer Graphics and Applications (CG&A)
2023 The Visual Computer (TVC)
2022 IEEE Transactions on Visualization and Computer Graphics (TVCG)

Student Helper

- 2018 Pacific Conference on Computer Graphics and Applications (PG)

Last updated on April 10, 2024