

# Hui Ye

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## Research Focus

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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 tools and techniques for 3D contents and interactions.

## Education

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- **City University of Hong Kong (CityU)** Sep 2017-Aug 2022  
Ph.D. in Creative Media  
Supervisor: Prof. Hongbo Fu  
Thesis: 3D Content and Interaction Prototyping with Mobile Augmented Reality
- **University of Science and Technology of China (USTC)** Sep 2012-June 2016  
B.A. in Communication  
Minor in Computer Science and Technology

## Experience

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- **RGC Postdoctoral Fellow, City University of Hong Kong** Sep 2022-Current  
Supervisor: Prof. Hongbo Fu
- **Research Assistant, City University of Hong Kong** Sep 2021-Aug 2022  
Supervisor: Prof. Hongbo Fu
- **Visiting Ph.D. student, Tsinghua University** Dec 2019-Apr 2020  
Institute of HCI and Media Integration  
Advisors: Dr. Chun Yu and Prof. Hongbo Fu
- **City University of Hong Kong** Sep-Dec 2014  
Exchange student

## Publications

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- **Hui Ye** and Hongbo Fu. 2022. 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 (CHI 2022)*.
- **Hui Ye**, Kin Chung Kwan, and Hongbo Fu. 2021. 3D Curve Creation on and around Physical Objects with Mobile AR. In *IEEE Transactions on Visualization and Computer Graphics (TVCG)*.
- **Hui Ye**, Kin Chung Kwan (joint first author), Wanchao Su, and Hongbo Fu. 2020. ARAnimator: In-situ Character Animation in Mobile AR with User-defined Motion Gestures. In *ACM Transactions on Graphics (Special Issue of ACM SIGGRAPH 2020)*.
- Wanchao Su, **Hui Ye**, Shuyu Chen, Lin Gao, and Hongbo Fu. 2022. DrawingInStyles: Portrait Image Generation and Editing with Spatially Conditioned StyleGAN. In *IEEE Transactions on Visualization and Computer Graphics (TVCG)*. Accepted for publication.
- Xuanyu Wang, **Hui Ye**, Christian Sandor, Weizhan Zhang, and Hongbo Fu. 2022. Predict-and-Drive: Avatar Motion Adaption in Room-Scale Augmented Reality Telepresence with Heterogeneous Spaces. In *IEEE Transactions on Visualization and Computer Graphics (TVCG): Special Issue for IEEE ISMAR 2022*. Accepted for publication.

- Yanxiang Zhang and **Hui Ye**. 2016. Time-Based Nonlinear Interactive Player. In *International Conference on Augmented Reality, Virtual Reality and Computer Graphics*. Springer, Cham.
- Yanxiang Zhang, Yun Zhu, **Hui Ye**. 2015. The Design of an Augmented Reality Based Rigid Body Motion Experiment System. In *Applied Mechanics and Materials*. Trans Tech Publications Ltd.

## Selected Honors & Awards

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- RGC Postdoctoral Fellowship 2022
- Outstanding Academic Performance Award of CityU 2021
- Shidi CAD&CG Excellent Student Award 2021
- Research Tuition Scholarship of CityU 2020
- Guo Moruo Scholarship (Top 2%, Highest Honor for USTC Undergraduates) 2016
- Merit Graduate of Anhui Province & USTC (Top 3%) 2016
- Certificate of Honorary Rank of USTC (Top 5%) 2016
- Outstanding Thesis of USTC 2016
- Sun Bin Leadership Scholarship of USTC 2014
- Aegon-Industrial Responsibility Scholarship of USTC 2014
- Outstanding Instructor in "Science and Technology Week" of USTC 2013-15
- Gold Award of Excellent Student Scholarship of USTC (Top 5%) 2013
- Outstanding Young Volunteer of USTC 2013

## Talks

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- **The Road from Communication to Computer Graphics** Aug 2022  
Invited Presenter, Student Colloquium, CAD&CG 2022+2023
- **ProGesAR: Mobile AR Prototyping for Proxemic and Gestural Interactions with Real-worldIoT Enhanced Spaces** May 2022  
Conference Paper Presenter, CHI 2022
- **Mobile AR Prototyping for Proxemic and Gestural Interactions** Apr 2022  
Invited Speaker, EAA Youth Academic Forum, Tianjin Fine Arts Institute
- **Exploring Novel Mobile AR Prototyping Techniques and Tools for 3D Contents and Interactions** Dec 2021  
SIGGRAPH Thesis Fast Forward
- **ARAnimator: In-situ Character Animation in Mobile AR with User-defined Motion Gestures**  
Invited Speaker, Graphics And Mixed Environment Symposium (GAMES) Sep 2021  
Invited Speaker, SCM|ACIM Colloquium, CityU Oct 2020  
Conference Paper Presenter, SIGGRAPH 2020 Aug 2020
- **3D Curve Creation on and around Physical Objects with Mobile AR** Mar 2021  
Invited Speaker, IEEE VR 2021
- **In-situ 3D Content Creation in Mobile AR** Mar 2021  
Invited Speaker, Affiliated Forum on Human, Technology and Future of IWHEC 2021

## Teaching Experience

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

## Professional Service

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- **Paper Review:** CHI 2023 & 2022 & 2020, SIGGRAPH Asia 2022, UIST 2022, MobileHCI 2022, TVCG 2022, IEEE VR 2021, IEEE AIVR 2021, PG 2020
- **Competition Jury:** Jury Member of CHI 2022 Student Research Competition
- **Student Helper:** PG 2018

## Skills

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- **Programming Language:** C#, Swift, Python, HTML
- **Graphics interface:** OpenCV, QT
- **Application Tools:** iOS App, ARKit, HoloLens App, Mixed Reality Toolkit
- **Hardware:** HoloLens, Arduino, Motion Capture

Last updated on October 27, 2022