Junhan Kong Curriculum Vitæ

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BIO

Junhan "Judy" Kong is completing her second year as a PhD student in the Information School at the University of Washington. She is advised by Prof. Jacob O. Wobbrock and is a member of the ACE Lab and the DUB Group. She obtained her bachelor's and master's degrees in computer science from Carnegie Mellon University with an additional major in human-computer interaction (HCI) and minors in statistics and machine learning. Her area of research is HCI and accessible computing. Her work seeks to understand varying abilities of users and make technologies accessible through ability-based design.

EDUCATION

University of Washington, Seattle WA — Sep 2020 - Jun 2025 (expected)
Ph.D. in Information Science
Advisor: Jacob O. Wobbrock

Carnegie Mellon University, Pittsburgh PA — May 2019 - May 2020
Master of Science in Computer Science
Thesis: An Authoring Tool for Creating Interactive AR User Tutorials by Demonstration
Advisor: Jeffrey P. Bigham

Carnegie Mellon University, Pittsburgh PA — Aug 2015 - May 2019
Bachelor of Science in Computer Science
Additional major in Human-Computer Interaction, minors in Machine Learning and Statistics

PUBLICATIONS

[6] **Junhan Kong**, Mingyuan Zhong, James Fogarty, Jacob O. Wobbrock. The Ability-Based Design Mobile Toolkit: Developer Support for Runtime Interface Adaptation Based on User Abilities. (*under review for UIST 2022*)

[5] **Junhan Kong**, Mingyuan Zhong, James Fogarty, Jacob O. Wobbrock. Quantifying Touch: New Metrics for Characterizing What Happens *During* a Touch. (*under review for ASSETS 2022*)

[4] **Junhan Kong**, Dena Sabha, Jeffrey P. Bigham, Amy Pavel, Anhong Guo. 2021. TutorialLens: Authoring Interactive Augmented Reality Tutorials Through Narration and Demonstration. In Symposium on Spatial User Interaction (SUI '21). Association for Computing Machinery, New York, NY, USA, Article 16, 1–11. https://doi.org/10.1145/3485279.3485289

[3] **Junhan Kong**, Mingyuan Zhong, James Fogarty, Jacob O. Wobbrock. 2021. New Metrics for Understanding Touch by People with and without Limited Fine Motor Function. In The 23rd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '21 Poster). Association for Computing Machinery, New York, NY, USA, Article 80, 1–4. https://doi.org/10.1145/3441852.3476559

[2] **Junhan Kong**, Anhong Guo, Jeffrey P. Bigham. 2019. Supporting Older Adults in Using Complex User Interfaces with Augmented Reality. In The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19 Demo). Association for Computing Machinery, New York, NY, USA, 661–663. https://doi.org/10.1145/3308561.3354593

[1] Anhong Guo, **Junhan Kong**, Michael Rivera, Frank F. Xu, Jeffrey P. Bigham. 2019. StateLens: A Reverse Engineering Solution for Making Existing Dynamic Touchscreens Accessible. In Proceedings of the 32nd Annual ACM Symposium on User Interface Software and Technology (UIST '19). Association for Computing Machinery, New York, NY, USA, 371–385. https://doi.org/10.1145/3332165.3347873

PATENTS

Anhong Guo, **Junhan Kong**, Michael Rivera, Frank F. Xu, Jeffrey P. Bigham. StateLens: A Reverse Engineering Solution for Making Existing Dynamic Touchscreens Accessible. U.S. Provisional Patent Application 19/207, filed June 6, 2019.

TEACHING

Teaching Assistant, UW IMT 575 Data Science III: Scaling, Applications and Ethics	Mar 2022 - Jun 2022
Teaching Assistant, UW IMT 596 & 597 MSIM Capstone	Jan 2021 - Jun 2021
Teaching Assistant, UW INSC 380 Information Systems Analysis and Design	Sep 2020 - Dec 2020
Teaching Assistant, CMU 05-391 Designing Human-Centered Software	Aug 2017 - Dec 2019
Teaching Assistant, CMU 15-122 Principles of Imperative Computation	Aug 2016 - Dec 2019

SERVICE

ASSETS 2022 Web and Graphics Design Co-Chair	Sep 2021 - Oct 2022
CHI 2022 Reviewer	Oct 2021
CMU BHCI Student Advisory Committee	Sep 2018 - May 2019
CMU Undergraduate Orientation Counselor	Aug 2018

AWARDS AND HONORS

The Boeing Blue Skies Award: Game Changer	May 2019
CMU University Honors for academic excellence	May 2019
TartanHacks 2017: Best Educational App	Feb 2017
TartanHacks 2016: Social Impact Prize	Feb 2016
CMU School of Computer Science Dean's List, Fall 2015, Spring 2017, Fall 2017, Spring 2018, Fall 2018	

INDUSTRY EXPERIENCE

Software Engineering Intern, Google	May 2018 - Aug 2018
Software Engineering and Data Science Intern, Jet.com	Jun 2017 - Aug 2017

SKILLS

Programming Languages: Python, C++, C, Java, Swift, Objective C, C#, F#, JavaScript, R, SQL
Tools & Platforms: Git, Unity, ARKit, TensorFlow, AWS, OpenCV, CUDA, OpenMP, Hadoop, Spark
User-Centered Research: contextual inquiry, heuristic evaluation, affinity diagramming, storyboarding and speed dating, surveys and interviews
Hardware Prototyping & Fabrication: Processing, Arduino, PCB design, 3D printing