JONGGI HONG

Assistant Professor, Department of Computer Science, Stevens Institute of Technology

@ jhong8@stevens.edu

🕈 Hoboken, NJ, USA 🛛 🗞

% https://jonggi.github.io

EDUCATION

University of Maryland, College Park Doctor of Philosophy, Computer Science	September 2014 - September 2021College Park, Maryland, USA
Advisor: Hernisa Kacorri Committee: Marine Carpuat, Huaishu Peng, Leo Zhicheng Liu, Leah Findlater (Uni Thesis: Exploring Blind and Sighted Users' Interactions with Error-Prone Speech a	versity of Washington) nd Image Recognition
Korea Advanced Institute of Science and Technology Master of Science, Computer Science	
Advisor: Geehyuk Lee Committee: Woohun Lee, Poika Isokoski (Tampere University) Thesis: FlickBoard: A Simple Split Soft Keyboard for Small Touch Screens	
Korea Advanced Institute of Science and Technology Bachelor of Science, Computer Science (summa cum laude)	
PROFESSIONAL EXPERIENCE	
Stevens Institute of Technology . Assistant Professor Department of Computer Science	
Smith-Kettlewell Eye Research Institute. Postdoctoral Fellow Coughlan Lab	November 2021 - December 2022San Francisco, California, USA
Mentor: James Coughlan Project: Developing a camera-based navigation system for blind users	
Microsoft Research . Research Intern Ability team, Future of work community	June 2020 - September 2020Redmond, WA, USA (remote)
Mentors: Daniela Massiceti, Edward Cutrell, Cecily Morrison, Saqib Shaikh Projects: Building an interactive video recording interface for people with visual in	mpairments
Adobe Research. Research Intern Systems Technology Lab	May 2018 - August 2018♥ San Jose, CA, USA
<i>Mentors</i> : Tak Yeon Lee, Eunyee Koh <i>Project</i> : Classifying the semantic misalignments between link and landing page w	ith machine learning

TALKS

Human-Computer Interaction and Artificial Intelligence	SIT Seminar in Computer Science Outcomes, 2023
Generating Accessible Descriptors in Teachable Object Recognizers	UMD HCIL Symposium, 2021
Video Recording Guidance App for People with Visual Impairments	Microsoft Research, 2020
Crowdsourcing the Perception of Machine Teaching	UMD HCIL Symposium, 2020
Reviewing Speech Input with Audio: Differences Between Blind and Sighte	ed Users UMD HCIL Symposium, 2019
Classifying Semantic Misalignments between Links and Landing Pages	Adobe Research, 2018
Evaluating Angular Accuracy of Wrist-based Haptic Directional Guidance for	or Hand Movement UMD HCIL Symposium, 2016

HONORS & AWARDS

HCIL Maryland Way award	May 2021
Selected as HCIC 2019 student attendee	June 2019
UbiComp 2018 doctoral consortium	October 2018
Goldhabor travel grant	May 2018
International conference student support award	May 2018
Summer dean's fellowship	May 2015
HCII 2014 best paper award	June 2014
Summa cum laude (Korea Advanced Institute of Science and Technology)	February 2012
Full tuition waiver (Korea Advanced Institute of Science and Technology)	February 2006 - December 2011

PUBLICATIONS

PEER-REVIEWED PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

- P.11 Jonggi Hong, James Coughlan. 2024. Enhancing Walk-Light Detector Usage for the Visually Impaired: A Comparison of VR Exploration and Verbal Instructions. Proc. International Web for All Conference (W4A 2024).

 PBest Paper Nominee Acceptance rate: NA
- P.10 Jonggi Hong, Jaina Gandhi, Ernest Essuah Mensah, Farnaz Zeraati, Ebrima Jarjue, Kyungjun Lee, Hernisa Kacorri. 2022. Blind Users Accessing Their Training Images in Teachable Object Recognizers. *Proc. International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2022)*.

 PBest Paper Nominee Acceptance rate: 26.5%
- P.9 Kyungjun Lee (co-first author), Jonggi Hong (co-first author), Ebrima Jarjue, Ernest Essuah Mensah, Hernisa Kacorri. 2022. From the Lab to People's Home: Lessons from Accessing Blind Participants' Interactions via Smart Glasses in Remote Studies. Proc. International Web for All Conference (W4A 2022). Acceptance rate: NA
- P.8 Jonggi Hong, Kyungjun Lee, June Xu, Hernisa Kacorri. 2020. Crowdsourcing the Perception of Machine Teaching. In Proc. SIGCHI Conference on Human Factors in Computing Systems (CHI 2020). 1-14. Acceptance rate: 24.3%
- P.7 Kyungjun Lee, Jonggi Hong, Ebrima Jarjue, Simone Pimento, Hernisa Kacorri. 2019. Revisiting Blind Photography in the Context of Teachable Object Recognizers. In Proc. International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2019). 83-95. Acceptance rate: 26%
- P.6 Jonggi Hong, Leah Findlater. 2018. Identifying Speech Input Errors Through Audio-Only Interaction. In Proc. SIGCHI Conference on Human Factors in Computing Systems (CHI 2018). 567:1–567:12. Acceptance rate: 25.7%
- P.5 Jonggi Hong, Alisha Pradhan, Jon E. Froehlich, Leah Findlater. 2017. Evaluating Wrist-Based Haptic Feedback for Non-Visual Target Finding and Path Tracing on a 2D Surface. In Proc. International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2017), 210-219. Acceptance rate: 26.2%
- P.4 Kristin Williams, Karyn Moffatt, **Jonggi Hong**, Yasmeen Faroqi-Shah, Leah Findlater. 2016. The Cost of Turning Heads: A Comparison of a Head-Worn Display to a Smartphone for Supporting Persons With Aphasia in Conversation. In *Proc. International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2016)*, 111-120. Acceptance rate: 25%

 P.3 Jonggi Hong, Lee Stearns, David Ross, Jon Froehlich, Leah Findlater. 2016. Evaluating Angular Accuracy of Wristbased Haptic Directional Guidance for Hand Movement. In *Proc. Graphics Interface Conference (GI 2016)*, 195-200.

Acceptance rate: 39%

 P.2 Jonggi Hong, Seongkook Heo, Poika Isokoski, Geehyuk Lee. 2015. SplitBoard: A Simple Split Soft Keyboard for Wristwatch-sized Touch Screens. In Proc. SIGCHI Conference on Human Factors in Computing Systems (CHI 2015), 1233-1236.
 Accentance rate: 25%

Acceptance rate: 25%

P.1 Jooyeun Ham, **Jonggi Hong**, Youngkyoon Jang, Seung Hwan Ko, Woontack Woo. 2014. Smart Wristband: Touchand-motion-tracking Wearable Input Device for Smart Glasses. In *Proc. International Conference on Human-Computer Interaction (HCII 2014)*, 109-118. (Best paper awarded) Acceptance rate: N/A

PEER-REVIEWED JOURNAL ARTICLES

- J.5 Jonggi Hong, James Coughlan. 2023. VR Training to Facilitate Blind Photography for Navigation. *The Journal on Technology and Persons with Disabilities (CSUN)*. Impact factor: 0.82
- J.4 Amanda Lazar, Robin N. Brewer, Hernisa Kacorri, Jonggi Hong, Mary Nicole Dugay Punzalan, Maisarah Mahathir, Olivia K. Richards, Warren Ross III. 2021. How Content Authored by People with Dementia Affects Attitudes towards Dementia. Proceedings of Computer Supported Cooperative Work (CSCW). Impact factor: 6.76
- J.3 Jonggi Hong, Christine Vaing, Hernisa Kacorri, Leah Findlater. 2020. Reviewing Speech Input with Audio: Differences Between Blind and Sighted Users. ACM Transactions on Accessible Computing (TACCESS). 13, 1, Article 2 (April 2020). Impact factor: 1.57
- J.2 Jonggi Hong, Seongkook Heo, Poika Isokoski, Geehyuk Lee. 2016. Comparison of Three QWERTY Keyboards for a Smartwatch. *Interacting with Computers*. 28(6), 811-825. Impact factor: 1.41
- J.1 Jonggi Hong, Geehyuk Lee, Hwan Kim, Woohun Lee. 2015. TouchRoller: A Touch-sensitive Cylindrical Input Device for GUI Manipulation of Interactive TVs. *Interacting with Computers*. 28(3), 293-310. Impact factor: 1.41

WORKSHOP AND POSTER PAPERS

- W.6 **Jonggi Hong**, Kyungjun Lee, June Xu, Hernisa Kacorri, Exploring Machine Teaching in Object Recognition with the Crowd. Human Computer Interaction Consortium (HCIC 2019).
- W.5 **Jonggi Hong**, Kyungjun Lee, June Xu, Hernisa Kacorri, Exploring Machine Teaching in Object Recognition with the Crowd. In Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI EA 2019).
- W.4 **Jonggi Hong**. Accessible Human-Error Interactions in AI Applications for the Blind. Doctoral Colloquium at Ubi-Comp 2018.
- W.3 Jonggi Hong, Leah Findlater. Correcting Errors in Speech Input During Non-Visual Use. Ubiquitous Text Input Workshop at CHI 2017.
- W.2 Jooyeun Ham, Jonggi Hong, Youngkyoon Jang, Seung Hwan Ko, Woontack Woo. 2014. Poster: Smart Glasses' Augmented Wearable Interface based on Wristband-type Motion-aware Touch Panel. Poster. 3D User Interfaces (3DUI), IEEE Symposium on, 147-148.
- W.1 **Jonggi Hong**, Geehyuk Lee. 2013. TouchShield: A Virtual Control for Stable Grip of a Smartphone Using the Thumb. In Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI EA 2013).

PATENTS

Tak Yeon Lee, Jonggi Hong, Eunyee Koh. Identifying and Presenting Misalignments between DigitalUSA, 2020Messages and External Digital Content. US Patent App. 16/419,676USA

Geehyuk Lee, **Jonggi Hong**. Graphical user interface (GUI) widget for stable holding and control of USA, 2012 smart phone based on touch screen. US Patent App. 13/711,553

TEACHING

Artificial Intelligence (CS541) Instructor. Stevens Institute of Technology (Graduate level, 46 students)	Spring 2023
Seminar in Research Methods and Data Analysis (INST808) Graduate Teaching Assistant. University of Maryland, College Park (Graduate level, 6 students)	Spring 2020
Inclusive Design in HCI (INST704) Graduate Teaching Assistant. University of Maryland, College Park (Graduate level, 25 students)	Fall 2019
Object-oriented Programming II (CMSC132) Graduate Teaching Assistant. University of Maryland, College Park (Undergraduate level, 60 students)	Spring 2017 Fall 2016 Spring 2015
Object-oriented Programming I (CMSC131) Graduate Teaching Assistant. University of Maryland, College Park (Undergraduate level, 60 students)	Fall 2014
Data Structure (CS206) Graduate Teaching Assistant. Korea Advanced Institute of Science and Technology (Undergraduate level, 30 students)	Fall 2012

MENTORING

Jiaqi Tu. Master student, Computer Science	Stevens Institute of Technology
Ruobing Liu. Master student, Computer Science	Stevens Institute of Technology
Jiayin Huang. Master student, Computer Science	Stevens Institute of Technology
Kanika Yadav. Master student, Computer Science	Stevens Institute of Technology
Arnab Chand. Master student, Computer Science	Stevens Institute of Technology
Ebrima Jarjue. Master student, College of Information Studies	University of Maryland, Collge Park
Ernest Essuah Mensah. Undergraduate student, Computer Science	University of Maryland, Collge Park
June Xu. Undergraduate student, Electrical and Computer Engineering	University of Maryland, Collge Park
Jaina Gandhi. Master student, College of Information Studies	University of Maryland, Collge Park
Christine Vaing. Master student, College of Information Studies	University of Maryland, Collge Park

PROFESSIONAL SERVICE

WORKSHOP CHAIR	
ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)	2024
UNIVERSITY SERVICE	
Search committee	2024
PROGRAM COMMITTEE	
ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)	2023
ACCESSIBILITY CHAIR	
ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)	2023
ASSOCIATE CHAIR	
CHI2020 Late Breaking Work	2020

REVIEWER

ACM International Conference on Mobile Human-Computer Interaction (MobileHCI)	2023
ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)	2023
ACM Symposium on User Interface Software and Technology (UIST)	2022
W4A'22 Accessibility Challenge	2022
ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)	2024
ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)	2023
ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)	2022
ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)	2021
ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)	2020
ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)	2019
IFIP TC.13 International Conference on Human-Computer Interaction (INTERACT)	2019
Assistive Technologies Journal	2019

PROFESSIONAL AFFILIATION AND MEMBERSHIP

- Member of Association for Computing Machinery (ACM)
- Special Interest Group on Accessibility and Computing (SIGACCESS)
- Special Interest Group on Computer-Human Interaction (SIGCHI)