

JONGGI HONG

Ph.D. candidate, Computer Science, University of Maryland, College Park

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College Park, MD, USA

<https://jonggi.github.io>

EDUCATION

University of Maryland, College Park

Doctor of Philosophy, Computer Science

September 2014 – September 2021

College Park, Maryland, USA

Advisor: Hernisa Kacorri

Thesis: Exploring Blind and Sighted Users' Interactions with Error-Prone Speech and Image Recognition

Korea Advanced Institute of Science and Technology

Master of Science, Computer Science

September 2012 – August 2014

Daejeon, South Korea

Advisor: Geehyuk Lee

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)

February 2006 – December 2011

Daejeon, South Korea

PROFESSIONAL EXPERIENCE

Smith-Kettlewell Eye Research Institute. Postdoc fellow

Coughlan lab Lab

November 2021 – Current

San Francisco, California, USA

Advisor: James Coughlan

Project: Camera-based navigation system for blind users

University of Maryland, College Park. Research Assistant

Intelligent Assistive Machines Lab

September 2017 – September 2021

College Park, Maryland, USA

Advisor: Hernisa Kacorri

Project: Developing a teachable interface of an object recognizer for people with visual impairments

Microsoft Research. Research Intern

Ability team, Future of work community

June 2020 – September 2020

Redmond, WA, USA (Remote)

Mentors: Daniela Massiceti, Edward Cutrell, Cecily Morrison, Saqib Shaikh

Projects: Building an interactive video recording interface for people with visual impairments

Adobe Research. Research Intern

Systems Technology Lab

May 2018 – August 2018

San Jose, CA, USA

Mentors: Tak Yeon Lee, Eunye Koh

Project: Classifying the semantic misalignments between link and landing page with machine learning

University of Maryland, College Park. Research Assistant

Inclusive Design Lab

September 2015 – August 2017

College Park, Maryland, USA

Advisor: Leah Findlater

Projects: Speech input interface for blind and sighted users, haptic wristbands for directional guidance

TALKS

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 Sighted 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 Hand Movement UMD HCIL Symposium, 2016

SplitBoard: A Simple Split Soft Keyboard for Wristwatch-sized Touch Screens

UMD HCIL Symposium, 2015

HONORS & AWARDS

HCIL Maryland Way award

May 2021

Selected as HCIC 2019 student attendee

June 2019

UbiComp 2018 doctoral consortium

October 2018

Goldhaber 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.10 **Jonggi Hong**, Jaina Gandhi, Ernest Essuah Mensah, Ebrima Jarjue, Kyungjun Lee, Hernisa Kacorri. 2022. TOR: Developing an Accessible Teachable Object Recognizer with Blind People. *Under review*.
- 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: Facilitating Access to Blind Participants' Interactions in Remote Studies via Video Conferencing with Smart Glasses. *Under review*.
- 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 Farooqi-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 Wrist-based 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.
Acceptance rate: 25%
- P.1 Jooyeun Ham, **Jonggi Hong**, Youngkyoon Jang, Seung Hwan Ko, Woontack Woo. 2014. Smart Wristband: Touch-and-motion-tracking Wearable Input Device for Smart Glasses. In *Proc. International Conference on Human-Computer Interaction (HCI 2014)*, 109-118. (Best paper awarded)
Acceptance rate: N/A

PEER-REVIEWED JOURNAL ARTICLES

- J.5 Utkarsh Dwivedi, Merijke Coenraad, **Jonggi Hong**, Jaina Gandhi, Raj A Parikh Parikh, Ghazaleh Keshavarz, Elizabeth Bonsignore, Hernisa Kacorri. 2021. Co-designing Teachable Machines with Children. *Under review*.
- 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 UbiComp 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

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|---|-----------|
| Tak Yeon Lee, Jonggi Hong , Eunye Koh. Identifying and Presenting Misalignments between Digital Messages and External Digital Content. US Patent App. 16/419,676 | USA, 2020 |
| Geehyuk Lee, Jonggi Hong . Graphical user interface (GUI) widget for stable holding and control of smart phone based on touch screen. US Patent App. 13/711,553 | USA, 2012 |

TEACHING

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

Ebrima Jarjue. Master student, College of Information Studies	University of Maryland, College Park
Ernest Essuah Mensah. Undergraduate student, Computer Science	University of Maryland, College Park
June Xu. Undergraduate student, Electrical and Computer Engineering	University of Maryland, College Park
Jaina Gandhi. Master student, College of Information Studies	University of Maryland, College Park
Christine Vaing. Master student, College of Information Studies	University of Maryland, College Park

PROFESSIONAL SERVICE

ASSOCIATE CHAIR

CHI2020 Late Breaking Work	2020
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REVIEWER

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)