

HWAJUNG HONG

Assistant Professor | School of Design and Human Engineering | UNIST, Korea
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EDUCATION

2010-2015

Georgia Institute of Technology

Ph.D. in Human-Centered Computing | School of Interactive Computing
Thesis: Specializing Social Networking Services to Support the Independence of Adolescents and Adults with Autism
Advisors: Gregory Abowd & Rosa Arriaga

2008-2010

Georgia Institute of Technology

M.S. in Human-Computer Interaction (Specialization: Digital media)

2003-2008

Korea Advance Institute of Science and Technology

B.S. in Industrial Design
Graduated with Department and University Honors (Magna Cum Laude)

RESEARCH INTERESTS

Broadly—Designing, building, evaluating human-centered user interfaces and data visualizations.

Latently—Building interactive technologies to promote mental health and wellness; social media and crowd-powered services towards accessibility and education; data-driven design; digital fabrication.

EMPLOYMENT

2015-Present
Ulsan, Korea

School of Design and Human Engineering, UNIST

Assistant Professor of Design and Human Engineering
Affiliated faculty, Graduate School of Creative Design Engineering
Courtesy faculty, School of Electrical and Computer Engineering
Director of [DxD lab](#) (Data, Interaction, Design lab)

2009- 2015
Atlanta, GA

Ubiquitous Computing Lab, Georgia Institute of Technology

Graduate Research Assistant

2013
Atlanta, GA

LSQ Mobile

UI Designer

2012
Palo Alto, CA

Xerox Palo Alto Research Center (PARC)

Research Intern, Augmented Social Cognition Group, Mentor: Ashwin Ram

2011
Redmond, WA

Microsoft Research

Research Intern, VIBE Group, Mentor: Kori Inkpen

2010
Seoul, Korea

LG Electronics, Inc.

UX consultant, Home Appliance Center

2009
Schaumburg, IL

Motorola, Inc.

Research Intern, Mentor: Santosh Basapur

2008 **Continuum**
Seoul, Korea UX researcher

2006–2007 **SK Telecom**
Seoul, Korea Interaction Designer, User Experience Team, Communication Intelligent Division

GRANT, AWARDS & HONORS

2017-2020 **National Research Foundation (Basic Science and Engineering)**
“Toward Designing Human-Centered Mental Health Platforms”
PI (\$150,000, Jun 2017 ~ Feb 2020)

2017 **UNIST Innovation Research Grant**
“Collaborative Augmented Reality Lab”
Co-PI (\$50,000, Jan 2017 ~ Jan 2018)

2017 **National Research Foundation (Technology, Social Science, and Art Collaboration Initiative)**
“Designing feedback interfaces to improve social competency of college students”
Co-I (\$70,000, Sep 2016 ~ Sep 2017)

2015 **UNIST Interdisciplinary Research Grant**
“uGlasses: Socially-acceptable augmented glasses”
Co-PI (\$100,000, Feb 2016 ~ Feb 2018)

2010-2015 **The Samsung Scholarship**
Scholarship (\$50,000/year, for 5 years) awarded for tuition and stipend for Ph.D. studies

2014 **2014 Foley Scholars Finalist**
Award for innovating people-centered research (one of 24), GVU Center at Georgia Tech.

2014 **2014 Grace Hopper Celebration of Women in Computing Scholarship.**
\$550 travel grant for attending GHC 2014

2014 **The George Health Systems Fellowship**
\$3000 award for commitment to the Healthcare Industry and Academic Achievements

2011 **The Korean Computer Scientists and Engineers’ Association Scholarship**
\$1000 award for academic excellence to Korean students in computer science and engineering

2011 **Google PhD Lightning Talks Award**
Research equipment awarded by Google

2004-2007 **KAIST Dept. of Industrial Design Merit Award Winner**
Highest honors with scholarship

2003-2007 **Government Fellowship for Science and Engineering**
\$12000 merit scholarship, Korea Ministry of Science and Technology

2007 **Index Award: Design to improve life**
Finalist, the patronage of HRH the crown prince of Demark, supported by Danish Ministry of Economic and Business Affairs

- 2007 **Future Mobile Device Design Competition**
1st prize, KAIST Institute for Information Technology Convergence
- 2006 **Undergraduate Design Research Seminar Honorable Mention Award**
Korean Society of Design Science

TEACHING

Courses Designed and Taught

- Fall 2016 **Human-Centered Design**
UNIST, graduate course
- Fall 2016 **Design Knowledge and Skills (Intro to Information Visualization)**
UNIST, undergraduate course
Selected for a Departments' Best Teacher Award
- Spring 2017 **Contextual Design (Qualitative Research Methods)**
Fall 2015 UNIST, graduate course
- Fall 2015 **Special Topics: Human-Computer Interaction Design Studio**
UNIST, undergraduate course
- Spring 2014 **User Interface Design and Evaluation**
Teaching Assistantships
Georgia Tech, Teaching Assistant
- Fall 2011 **Human-Computer Interaction**
Georgia Tech, Teaching Assistant
Nominated for a 2012 CETL/BP Outstanding Teaching Assistant Award

PUBLICATIONS

Conference Papers

- [C.12] **Designing for Self-Tracking of Emotion and Experience with Tangible Modality**
Kwangyoung Lee, **Hwajung Hong**
DIS 2017: ACM Conference on Designing Interactive Systems. [24% acceptance rate, 10pgs]
- [C.11] **"Not by Money Alone": Social Support Opportunities in Medical Crowdfunding Campaigns**
Jennifer G. Kim, Kristen Vaccaro, Karrie Karahalios, **Hwajung Hong**
CSCW 2017: ACM Conference on Computer Supported Cooperative Work. [34% acceptance rate, 10pgs]
- [C.10] **The Power of Collective Endorsements: Credibility Factors in Medical Crowdfunding Campaigns**
Jennifer G. Kim, Ha Kyung Kong, Karrie Karahalios, Wai-Tat Fu, **Hwajung Hong**
CHI 2016: ACM Conference on Human Factors in Computing Systems. [23% acceptance rate, 10pgs]
- [C.9] **Towards Designing Social Question-and-Answer Systems for Behavioral Support of Individuals with Autism**
Hwajung Hong, Gregory D.Abowd, Rosa I.Arriaga
Pervasive Health 2015: International Conference on Pervasive Computing Technologies for Healthcare. [30% acceptance rate, 8pgs]

- [C.8] **In-group Questions and Out-group Answers: Crowdsourcing Daily Living Advice for Individuals with Autism**
Hwajung Hong, Eric Gilbert, Gregory D.Abowd, Rosa I.Arriaga
 CHI 2015: ACM Conference on Human Factors in Computing Systems. [23% acceptance rate, 10pgs]
- [C.7] **Investigating the Use of “Circles” in Social Networks to Support the Independence of Individuals with Autism**
Hwajung Hong, Lana Yarosh, Jennifer G.Kim, Gregory D.Abowd, Rosa I.Arriaga
 CHI 2013: ACM Conference on Human Factors in Computing Systems. [20% acceptance, 10pgs]
- [C.6] **Designing a Social Network to Support the Independence of Young Adults with Autism**
Hwajung Hong, Jennifer G. Kim, Gregory D. Abowd, Rosa I. Arriaga
 CSCW 2012: ACM Conference on Computer Supported Cooperative Work.
 [9% acceptance for top- tier submissions]
- [C.5] **Towards a Framework to Situate Assistive Technology Design in the Context of Culture**
 Fatima Boujarwah*, Nazneen*, **Hwajung Hong***, Gregory D.Abowd, Rosa I.Arriaga
 ASSETS 2011: ACM SIGACCESS Conference on Computers and Accessibility. [33% acceptance, 10pgs]
 *Equally contributing authors
- [C.4] **Training Social Problem Solving Skills in Adolescents with High-Functioning Autism**
 Fatima Boujarwah, **Hwajung Hong**, Gregory D.Abowd, Rosa I.Arriaga, Jackie Isabelle
 Pervasive Health 2010: International Conference on Pervasive Computing Technologies for Healthcare.
 [30% acceptance, 8pgs]
- [C.3] **Design Requirements for Ambient Display that Supports Sustainable Lifestyle**
 Tanyoung Kim, **Hwajung Hong**, Brian Magerko
 DIS 2010: ACM conference on Designing Interactive Systems. [25% acceptance, 10pgs]
- [C.2] **Designing for Persuasion: Toward Ambient Eco-Visualization for Awareness**
 Tanyoung Kim, **Hwajung Hong**, Brian Magerko
 Persuasive 2010: International Conference on Persuasive Technology. [31% acceptance, 10pgs]
- [C.1] **Refl-ex: Towards Designing an Interactive and Intelligent Tool for Social Skill Development of Individuals with HFA/ASD**
 Jan Gillesen, **Hwajung Hong**, Rosa I.Arriaga
 DPPI 2009: International Conference on Designing Pleasurable Products and Interfaces.

Doctoral Colloquia, Extended Abstracts, Workshops and Posters
- [W.14] **Calm Station: An Interactive Perpetual Desk Object that Reduces Digital Distractions**
 Taewan Kim, Young-Woo Park, **Hwajung Hong**,. DIS 2017 Demonstrations.
- [W.13] **Designing a Crowdsourcing Platform for Generating Subtitles of Accessible Films**
 Dasom Choi, Akerim Orken, Han Lee, **Hwajung Hong**,. HCI KOREA 2017.
- [W.12] **Building Social Computing Systems to Address Social Needs of Adolescents with Autism**
Hwajung Hong, Rosa Arriaga, Gregory Abowd., Grace Hopper Conference 2014 Ph.D Forum.

- [W.11] **Mining Themes and Interests in the Asperger's and Autism Community**
Yang-feng Ji, **Hwajung Hong**, Rosa Arriaga, Agata Rozga, Gregory Abowd and Jacob Eisenstein.
ACL 2014 Workshop on Computational Linguistics and Clinical Psychology.
- [W.10] **Specializing Social Networking Services for Young Adults with Autism**
Hwajung Hong, CSCW 2014, Doctoral Colloquium.
- [W.9] **A Characterization Study of Q&A Behavior on an Online Forum for Autism**
Hwajung Hong, Atlanta Workshop on Computational Social Science.
- [W.8] **Harnessing Trusted-Stranger Networks to Ask for Social Advice: Challenges and Opportunities**
Hwajung Hong, and Rosa I. Arriaga, CSCW 2013 Workshop on Social Media Question Asking.
- [W.7] **Designing a Specialized Q&A System to Support Every Life of Individuals with Autism**
Hwajung Hong, UKC 2013, New Jersey, NY
- [W.6] **SocialMirror: Motivating Young Adults with Autism to Practice Life Skills in a Social World**
Hwajung Hong, Jennifer G.Kim, Gregory D.Abowd, Rosa I.Arriaga., CSCW Videos.
[Selected to be the best example of video submissions on the CSCW 2013 Videos CFP website]
- [W.5] **A Specialized Social Network Service for Young Adults with Autism**
Hwajung Hong, Jennifer G.Kim, Gregory D.Abowd, Rosa I.Arriaga., IMFAR 2012: International Meeting for Autism Research.
- [W.4] **Cross-Cultural Comparisons of Social Expectations of Individuals with Autism and Other Intellectual Disabilities**
Fatima Boujarwah, Nazneen, **Hwajung Hong**, Gregory D.Abowd, Rosa I.Arriaga., SCCR 2011: The 40th Annual Meeting of the Society for Cross-Cultural Research.
- [W.3] **TriggerHunter: Designing an Educational Game for families with Asthmatic children**
Hwajung Hong, Hee Young Jeong, Gregory D.Abowd, Rosa I.Arriaga., CHI 2010 Workshop on Interactive Systems in Healthcare (WISH).
- [W.2] **Interactive Visualization of Ecosystem Change for Public Education.**
Fatima Boujarwah, Nazneen, **Hwajung Hong**, Gregory D.Abowd, Rosa I.Arriaga., IEEE InfoVis 2009.
- [W.1] **Coralog: Use-Aware Visualization Connecting Human Micro-Activities to Environmental Change.**
Tanyoung Kim, **Hwajung Hong**, Brian Magerko, CHI 2009 Extended Abstracts.

PATENTS

- [P.1] **A system for detecting, recording, tracking physical developmental milestones of children.**
Korea Patent No. 10-2008-0018678 (Issue date: 2009.09.02)
- [P.2] **A board game device for visually impaired users.**
Korea Patent No. 20-2000-0028967 (Issue date: 2001.01.20)

INVITED TALKS & MEDIA

- Data-Driven Design for Human-Centered Healthcare**
Feb 2017 Penn State University | IST Human-Centered Design Seminar Series
Feb 2017 University of Toronto | Joint seminar of Depart of Computer Science and Dept. of Medicine
- May 2016 효과적 커뮤니케이션을 위한 논문 쓰기
Korean Society of Design Science
- Understanding, Designing and Deploying Novel Human-Centered Experiences**
Oct 2015 Rutgers University | School of Communication and Information Seminar Series
Mar 2015 AT&T Labs
- Designing Socially-augmented Assistive Technology**
May 2015 KAIST, Dept. of Knowledge Service Engineering
Mar 2015 UNIST, School of Design and Human Engineering
Feb 2015 Stevens Institute of Technology, Dept. of Computer Science
Jan 2015 Indiana-Purdue University, School of Human-Centered Computing
Feb 2014 New Jersey Institute of Technology, School of Information
- Jun 2014 **Interactive Crowd Support for Individuals with Autism**
Samsung Scholarship Academic Camp Talk Series (SSOT)
- May 2013 **Implications for Designing a Social Networking service for Young Adults with Autism**
KAIST Department of Knowledge Service Engineering Seminar, Daejeon, Korea
- Mar 2013 **Investigating the Use of Circles in SNSs to Support Independence of Individuals with Autism**
Georgia Tech Gvu Brownbag Seminar series
- Aug 2012 **Motivating People with Chronic Disease to Establish Healthy Eating Habits through Social Media**
PARC ISL Seminar series
- Jun 2011 **KinectSnip: Taking and sharing snapshot pictures with gestural interaction in video conferencing**
Microsoft Kinect for Windows SDK 24hr code camp, Redmond, WA.
<https://channel9.msdn.com/Events/KinectSDK/BetaLaunch/C9Loo6>
- Apr 2010 **SocialMirror: Spontaneous connection to a helpful social network to learn everyday life skills of young adults with Autism**
Google PhD Lightening Talks series, Google, Atlanta, GA.
- May 2010 **TriggerHunter: Designing an Educational Game for families with Asthmatic children**
Workshop on Interactive Systems in Healthcare, Atlanta, GA.
- Feb 2010 **Engaging in Data through Visualization**
User Experience Design Group at Yahoo, Sunnyvale, CA.
- Jan 2008 학생 아이디어에 교수 16 명이 움직였다. KAIST 개발, 접히고 구겨지는 '손수건 단말기'
http://article.joins.com/news/article/article.asp?total_id=3009192

SERVICE

Conference Program Committee

ACM Creativity & Cognition (C&C) 2017 Pictorial

Reviewing

ACM Human Factors in Computing Systems (CHI), 2009-2017

ACM Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 2017

ACM Pervasive and Ubiquitous Computing (Ubicomp), 2014-2016

ACM Computer Supported Cooperative Work and Social Computing (CSCW), 2013-2017

Pervasive Computing Technologies for Healthcare (Pervasive Health) 2011-2017

University Service Activities

Design and Human Engineering Undergraduate Curriculum Committee Chair, 2016-2017

Design and Human Engineering Undergraduate Curriculum Committee, 2015-2016

UNIST HCI Group Seminar Series Organizer, 2017

Design and Human Engineering Seminar Series Organizer, 2015