CHANGHOON OH

Postdoctoral Researcher, Human-Computer Interaction Institute, Carnegie Mellon University
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RESEARCH INTERESTS

User experience (UX), Human-AI interaction, Human-computer interaction (HCI), User centered design (UCD), Artificial intelligence (AI), User study, Algorithmic experience, Social computing, Interaction design

EDUCATION

Seoul National University   Seoul, Korea
Ph.D. candidate in Digital Contents and Information Studies   Mar. 2012 - Feb. 2019
Thesis: Understanding How People Interact with Algorithm-based Systems Using AI
(Specialization: User experience and Human-computer Interaction)
Advisor: Bongwon Suh and Joonhwan Lee

Seoul National University   Seoul, Korea
B.A. in English Language and Literature, College of Humanities   Mar. 2006 - Feb. 2012
B.A. in Economics, College of Social Sciences
(Cum Laude)

EXPERIENCE

Carnegie Mellon University   Pittsburgh, PA
Postdoctoral Researcher   Aug. 2019 - Present

Seoul National University   Seoul, Korea
Postdoctoral Researcher   Mar. 2019 - Aug. 2019

Seoul National University   Seoul, Korea
Lecturer   Sep. 2018 - Aug. 2019

V.DO (A video artificial intelligence start-up)   Suwon, Korea
AI Researcher   Mar. 2018 - Feb. 2019

PUBLICATIONS

Conference Proceedings

I Lead, You Help But Only with Enough Details: Understanding the User Experience of Co-Creation with Artificial Intelligence.
Changhoon Oh, Jungwoo Song, Jinhan Choi, Seonghyeon Kim, Sungwoo Lee, Bongwon Suh.
CHI 2018: ACM Conference on Human Factors in Computing Systems (25% acceptance rate, 13 pages)
Honorable Mention Award (top 5%)

Us vs. Them: Understanding Artificial Intelligence Technophobia over the Google DeepMind Challenge Match.
Changhoon Oh, Taeyoung Lee, Yoojung Kim, SoHyun Park, Saebom Kwon, Bongwon Suh.
CHI 2017: ACM Conference on Human Factors in Computing Systems (25% acceptance rate, 12 pages)

Touch+Finger: Extending Touch-Based User Interface Capabilities with "Idle" Finger Gestures in the Air.
Hyunchul Lim, Jungmin Chung, **Changhoon Oh**, SoHyun Park, Joonhwan Lee, Bongwon Suh.
UIST 2018: ACM Symposium on User Interface Software and Technology (25% acceptance rate, 12 pages)

Journal Articles

Designing a Chatbot for a Brief Motivational Interview on Stress Management: Qualitative Case Study.
SoHyun Park, Jeewon Choi, Sungwoo Lee, **Changhoon Oh,** Changdai Kim, Soohyun La, Joonhwan Lee, Bongwon Suh.
Journal of medical Internet research (2019)

Extended Abstracts

TurtleTalk: An Educational Programming Game for Children with Voice User Interface.
Hyunhoon Jung, Hee Jae Kim, Seongeun So, Jinjoong Kim, **Changhoon Oh.**
CHI 2019 Extended abstracts

Tell Me More: Understanding User Interaction of Smart News Powered by Conversational Search.
Hyunhoon Jung, **Changhoon Oh,** Gilhwan Hwang, Cindy Yoonjung Oh, Joonhwan Lee, Bongwon Suh.
CHI 2019 Extended abstracts

PairRing: A Ring-Shaped Rotatable Smartwatch Controller.
Jungmin Chung, **Changhoon Oh,** SoHyun Park, Bongwon Suh.
CHI 2018 Extended abstracts

OctaRing: Examining Pressure-Sensitive Multi-Touch Input on a Finger Ring Device.
Hyunchul Lim, Jungmin Chung, **Changhoon Oh,** SoHyun Park, Bongwon Suh.
UIST 2016 Poster

Understanding Participatory Hashtag Practices on Instagram: A Case Study of Weekend Hashtag Project.
Changhoon Oh, Taeyoung Lee, Yoojung Kim, SoHyun Park, Bongwon Suh.
CHI 2016 Extended Abstracts

A System Designed to Collect Users' TV-Watching Data Using a Smart TV, Smartphones, and Smart Watches.
Jehwan Seo, Hyunchul Lim, **Changhoon Oh,** Hyun-Kyu Yun, Bongwon Suh, Joongseek Lee.
TVX 2016 Poster

Travel Q: Questifying Micro Activities Using Travel Photos to Enhance Travel Experience.
Yoojung Kim, **Changhoon Oh,** Taeyoung Lee, Donghun Lee, Joongseek Lee, Bongwon Suh.
CHI 2015 Extended Abstracts

Gravity: Automatic Location Tracking System between a Car and a Pedestrian.
Changhoon Oh, Jeongsoo Park, Bongwon Suh.
MobileHCI 2014 Poster

Understanding In-car Smartphone Usage Pattern with an Un-obfuscated Observation.
Changhoon Oh, Joongseek Lee.
CHI 2014 Extended Abstracts

AWARDS AND HONORS

Best Dissertation Award	Feb. 2019
Graduate School of Convergence Science and Technology, Seoul National University	
Honorable Mention Award	Apr. 2018
CHI 2018; among the top 5% of all submissions	
Google Travel and Conference Grants	Apr. 2018
Student Travel Grants Program	

Graduation with Distinction   Feb. 2012
Department of English Language and Literature, College of Humanities, Seoul National University
Cum Laude

Outstanding Academic Scholarship   Mar. 2008
Department of English Language and Literature, College of Humanities, Seoul National University

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TEACHING

Understanding Cultural Contents   Spring 2019
Instructor
Information Science and Culture, Seoul National University

Interactive Storytelling   Fall 2018
Instructor
Information Science and Culture, Seoul National University

Creative Fusion Seminar   Spring 2018
Teaching Assistant
College of Liberal Studies, Seoul National University

Statistical Analysis for Information Studies   Fall 2017
Teaching Assistant
Graduate School of Convergence Science and Technology, Seoul National University

Introduction to Convergence Science and Technology   Spring 2012
Teaching Assistant
Graduate School of Convergence Science and Technology, Seoul National University

UX Method Academy   Jan.2013
Course Assistant
Samsung Electronics

RESEARCH PROJECTS

Broadcasting News Content Generation Using Robot Journalism Technology   Seoul, Korea
UX Researcher   Apr. 2017 - Dec. 2018
Funded by Institute for Information & Communications Technology Promotion (IITP),
and Ministry of Science and ICT

Development of the 10G Level RegEx Packet Processing Software for Security Intelligence   Seoul, Korea
UX Researcher   Jan. 2017 – Dec. 2017
Funded by Institute for Information & Communications Technology Promotion (IITP),
and Ministry of Science and ICT

IPTV Log Data Analysis and Dashboard Design   Seoul, Korea
UX Researcher   Nov. 2016 - Present
Funded by CastIs Inc.

Development of Big Data-based Apparel Recommendation System   Seoul, Korea
UX Researcher   Mar. 2015 - May 2015
Funded by Sejung Inc.

Development of Future In-vehicle Scenarios for Smartphone Users	Seoul, Korea
Project Manager	Mar. 2013 - Jul. 2013
Funded by Samsung Electronics	

Development of Future In-vehicle Scenarios for Smartphone Users
Project Manager
Funded by Samsung Electronics

Seoul, Korea
Mar. 2013 - Jul. 2013

A Convergence Research Model to Solve Imminent Global and Social Issues
Researcher
Funded by National Research Foundation of Korea and Ministry of Education

Seoul, Korea
Oct. 2012 - Nov. 2012

Human and Technology Center for Convergence Science
Project Manager
Funded by National Research Foundation of Korea and Ministry of Education

Seoul, Korea
Sep. 2012 - Feb. 2013

A Study on Next-generation Car Navigation Design
Researcher
Funded by Hyundai MN Soft, the Hyundai Motors Company

Seoul, Korea
Sep. 2012 - Feb. 2013

Development of Global Korean Language Education System Using Digital Hallyu
Cultural Contents (the Korea Broadcasting System Contents)
UX Researcher
Funded by Korea Culture & Content Agency and Ministry of Culture, Sports and Tourism

Seoul, Korea
May 2012 - Mar. 2014

Development of UX Methodology
UX Researcher
Funded by Tobesoft Inc.

Seoul, Korea
Apr. 2012 - Dec. 2012

INVITED TALKS

Understanding the User Experience of Co-Creation with Artificial Intelligence
KIXLAB (the KAIST Interaction Lab), School of Computing
Korea Advanced Institute of Science and Technology (KAIST)

May 29, 2018

Human-AI Interaction: Understanding How People Interact with Artificial Intelligence
IoT Research Division, Hyper-connected Communication Research Laboratory, Electronics and Telecommunications Research Institute (ETRI)

Mar. 27, 2018

The Future of HCI
IoT Research Division, Hyper-connected Communication Research Laboratory, Electronics and Telecommunications Research Institute (ETRI)

Jul. 13, 2017

ACADEMIC SOCIETIES AND SERVICES

Membership
• ACM Student Membership
• HCI Korea Membership
• Seoul National University HCI Group Membership

External Reviewer of Full Paper
• CHI 2017

External Reviewer of Poster Session
• IUI 2016

Student Volunteer
• CSCW 2016

EXTRACURRICULARS

PUBLY (A crowd-funded online publisher in Korea)
Chief writer

Seoul, Korea
May 2017 - Present

SNUxHCI Group, Seoul National University
Chief organizer

Seoul, Korea
Summer 2015 - Present

Human Centered Computing Lab, GSCST, Seoul National University
Student internship mentor and manager

Seoul, Korea
Summer 2015 - Present

User Experience Lab, GSCST, Seoul National University
Student internship mentor and manager

Seoul, Korea
Summer 2012 - Summer 2014

LG Global Challenger
Selected as one of the top 30 expeditions

Seoul, Korea
Summer 2011

SKILLS

User Research
• Interviewing
• Conducting surveys
• Field research

User Interface and Interaction Design
• Illustrator
• Photoshop
• Sketch

Programming
• Python for data collecting and analysis
• R for data analysis
• TensorFlow for deep learning
• HTML5/CSS for web programming

Languages
• Fluent in writing and speaking in English
• Native Korean speaker

REFERENCES

Bongwon Suh, Ph.D.
Associate Professor
Graduate School of Convergence Science and Technology
Seoul National University
bongwon@snu.ac.kr

Wonjong Rhee, Ph.D.
Associate Professor
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Joonhwan Lee, Ph.D.
Associate Professor
Department of Communication, School of Social Sciences
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Gahgene Gweon, Ph.D.
Assistant Professor
Graduate School of Convergence Science and Technology
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Juho Kim, Ph.D.
Assistant Professor
School of Computing
Korea Advanced Institute of Science and Technology (KAIST)
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