CHANGHOON OH

Post Doctoral Research Fellow
Computer Science Department
Boston College

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RESEARCH INTERESTS

Human-AI Interaction, Human-Computer Interaction (HCI), Artificial Intelligence (AI), User Experience (UX) Research, ML/AI as Design Materials, AI-generated Content, Human-AI Collaboration, Responsible AI (RAI)

WORK EXPERIENCE

Oct. 2020 – Present
Boston, MA

Boston College | Computer Science Department
Post Doctoral Research Fellow
Advisor: Prof. Nam Wook Kim

Aug. 2019 – Oct. 2020
Pittsburgh, PA

Carnegie Mellon University | Human-Computer Interaction Institute
Postdoctoral Researcher
Advisors: Prof. Jodi Forlizzi and Prof. John Zimmerman

Mar. 2019 - Aug. 2019
Seoul, South Korea

Seoul National University | Graduate School of Convergence Science and Technology
Postdoctoral Researcher
Advisor: Prof. Joongseek Lee

Sep. 2018 - Aug. 2019
Seoul, South Korea

Seoul National University | Information Science and Culture
Lecturer

Mar. 2018 - Feb. 2019
Suwon, South Korea

V.DO (A video artificial intelligence start-up, acquired by NAVER)
AI/UX Researcher

EDUCATION

Mar. 2012 - Feb. 2019
Seoul, South Korea

Seoul National University
Ph.D. in Engineering (Specialization in Human-Computer Interaction)
Thesis: *Understanding How People Interact with Algorithm-Based Systems Using AI*
Best Dissertation Award
Advisor: Prof. Bongwon Suh

Mar. 2006 - Feb. 2012
Seoul, South Korea

Seoul National University
B.A. in English Language and Literature, College of Humanities
B.A. in Economics, College of Social Sciences
Cum Laude

PUBLICATIONS

Peer-reviewed conference papers

Oh, C., Kim, S., Choi, J., Eun, J., Kim, S., Kim, J., Lee, J., & Suh, B. 2020. "Understanding How People Reason about Aesthetic Evaluations of Artificial Intelligence." In *Proceedings of the ACM Designing Interactive Systems Conference 2020* (DIS'20), Eindhoven, Netherlands.
Best Paper Honorable Mention Award.

Oh, C., Choi, J., Lee, S., Park, S., Kim, D., Song, J., Kim, D., Lee, J., & Suh, B. 2020. "Understanding User Perception of Automated News Generation System." In *Proceedings of the ACM Conference on Human Factors in Computing Systems 2020* (CHI'20), Honolulu, HI.

Kim, S., Eun, J., **Oh, C.**, Suh, B., & Lee, J. 2020. "Bot in the Bunch: Facilitating Group Chat Discussion by Improving Efficiency and Participation with a Chatbot." In *Proceedings of the ACM Conference on Human Factors in Computing Systems 2020* (CHI'20), Honolulu, HI.

Lim, H., Chung, J., **Oh, C.**, Park, S., Lee, J., & Suh, B. 2018. "Touch+ Finger: Extending Touch-based User Interface Capabilities with" Idle" Finger Gestures in the Air." In *Proceedings of the ACM Symposium on User Interface Software and Technology 2018* (UIST'18), Berlin, Germany.

Oh, C., Song, J., Choi, J., Kim, S., Lee, S., & Suh, B. 2018. "I Lead, You Help But Only with Enough Details: Understanding User Experience of Co-Creation with Artificial Intelligence." In *Proceedings of the ACM Conference on Human Factors in Computing Systems 2018* (CHI'18), Montreal, Canada.
Best Paper Honorable Mention Award.

Oh, C., Lee, T., Kim, Y., Park, S., Kwon, S., & Suh, B. 2017. "Us vs. them: Understanding Artificial Intelligence Technophobia over the Google DeepMind Challenge Match." In *Proceedings of the ACM Conference on Human Factors in Computing Systems 2017* (CHI'17), Denver, CO.

Journals

Zimmerman, J., **Oh, C.**, Yildirim, N., Kass, A., Tung, T., & Forlizzi, J. (2020). UX designers pushing AI in the enterprise: a case for adaptive UIs. Interactions, 28(1), 72-77.

Park, S., Choi, J., Lee, S., **Oh, C.**, Kim, C., La, S., Lee, J., & Suh, B. 2019. "Designing a Chatbot for a Brief Motivational Interview on Stress Management: Qualitative Case Study." *Journal of medical Internet research* Vol. 21(4), e12231.

Thesis

Oh, C. 2019. "Understanding How People Interact with Algorithm-based Systems Using Artificial Intelligence" *Doctoral dissertation*, Seoul National University.
Best Dissertation Award.

Posters and Workshop papers

Choi, J., Oh, C., Suh, B., & Kim, N. 2021. "VisLab: Crowdsourcing Visualization Experiments in the Wild." In *Extended Abstracts of the ACM Conference on Human*

Factors in Computing Systems 2021 (CHI'21), Yokohama, Japan.

Choi, J., Oh, C., Suh, B., & Kim, N. 2021. "Toward a Unified Framework for Visualization Design Guidelines." In *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems 2021* (CHI'21), Yokohama, Japan.

Jung, H., Kim, H. J., So, S., Kim, J., & **Oh, C.** 2019. "TurtleTalk: An Educational Programming Game for Children with Voice User Interface." In *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems 2019* (CHI'19), Glasgow, UK.

Jung, H., Oh, C., Hwang, G., **Oh, C.,** Y., Lee, J., & Suh, B. 2019. "Tell Me More: Understanding User Interaction of Smart Speaker News Powered by Conversational Search." In *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems 2019* (CHI'19), Glasgow, UK.

Hyun, H., Kim, H., Kwon, N., Ryu, C., Lee, S., & **Oh, C.** 2019. "CarolTree: An Interactive Storytelling Based Music Education Game for Kids" For the workshop, "Asian CHI Symposium: Emerging HCI Research Collection," *CHI 2019*, Glasgow, UK.

Chung, J., **Oh, C.**, Park, S., & Suh, B. 2018. "PairRing: A Ring-Shaped Rotatable Smartwatch Controller." In *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems 2018* (CHI'18), Montreal, Canada.

Lim, H., Chung, J., **Oh, C.**, Park, S., & Suh, B. 2016. "OctaRing: Examining Pressure-Sensitive Multi-Touch Input on a Finger Ring Device." In *Proceedings of the Annual Symposium on User Interface Software and Technology 2016* (UIST'16), Tokyo, Japan.

Seo, J., Lim, H., **Oh, C.**, Yun, H. K., Suh, B., & Lee, J. 2016. "A System Designed to Collect Users' TV-Watching Data Using a Smart TV, Smartphones, and Smart Watches." In *Proceedings of the ACM International Conference on Interactive Experiences for TV and Online Video 2016* (TVX'16), Chicago, Illinois.

Oh, C., Lee, T., Kim, Y., Park, S., & Suh, B. 2016. "Understanding Participatory Hashtag Practices on Instagram: a Case Study of Weekend Hashtag Project." In *Proceedings of the ACM Conference Extended Abstracts on Human Factors in Computing Systems 2016* (CHI'16), San Jose, CA.

Kim, Y., **Oh, C.**, Lee, T., Lee, D., Lee, J., & Suh, B. 2015. "Travel Q: Questifying Micro Activities Using Travel Photos to Enhance Travel Experience." In *Proceedings of the ACM Conference Extended Abstracts on Human Factors in Computing Systems 2015* (CHI'15), Seoul, South Korea

Oh, C., Park, J., & Suh, B. 2014. "Gravity: Automatic Location Tracking System between a Car and a Pedestrian." In Proceedings of the ACM International Conference on Human-Computer Interaction with Mobile Devices & Services 2014 (MobileHCI'14), Toronto, Canada.

Oh, C., & Lee, J. 2014. "Understanding In-Car Smartphone Usage Pattern with an Un-Obfuscated Observation." In *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems 2014* (CHI'14), Toronto, Canada.

Publications in progress   Forlizzi, J., Zimmerman, J., Yang, Q., **Oh, C.**, & Yildirim, N. "Designing AI Products and Services: Benefits, Challenges, and Ideas for Improving Design Practice" In preparation.

Oh, C., Yildirim, N., Forlizzi, J., & Zimmerman, J. "AI Taxonomy and Design Patterns: Resources for Design Researchers and Practitioners" In preparation.

Yildirim, N., Kass, A., Tung, T., Oh, C., McCann, J., Forlizzi, J., & Zimmerman, J. "Why Designers Rarely Propose Adaptive UIs: Barriers and Opportunities in Enterprise" In preparation.

AWARDS AND HONORS

Jul. 2020   **DIS Best Paper Honorable Mention Award**
ACM Designing Interactive Systems Conference (DIS 2020)
Ranked among the top 5% of all submissions

Feb. 2019   **Best Dissertation Award**
Graduate School of Convergence Science and Technology
Seoul National University
Conferred by each college of the University

Apr. 2018   **CHI Best Paper Honorable Mention Award**
ACM Conference on Human Factors in Computing Systems (CHI 2018)
Ranked among the top 5% of all submissions

Apr. 2018   **Google Travel and Conference Grants**
Student Travel Grants Program
$2,000 travel funding to attend research conference

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

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

TEACHING

Spring/Summer 2020
Pittsburgh, PA
UX Design for AI
Independent Study Advisor
Human Computer Interaction Institute, Carnegie Mellon University

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

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

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

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

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

Jan.2013
Seoul, South Korea
UX Method Academy
Course Assistant
Samsung Electronics

INVITED TALKS

Feb 16, 2021
Boston, MA
Human-AI Interaction: Bridging the Gap between Humans and AI
Computer Science Department
Boston College
Hosted by Professor Hsin Hao Su

September 18, 2020
Seoul, South Korea
Human-AI Interaction: Bridging the Gap between Humans and AI
Graduate School of Information
Yonsei University

Aug 4, 2020
Pohang, South Korea
Human-AI Interaction: Bridging the Gap between Humans and AI
Summer AI Seminar Series
Graduate School of Artificial Intelligence
Pohang University of Science and Technology (POSTECH)

May 29, 2018 *Daejon, South Korea*	**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) Hosted by Professor Juho Kim
Mar. 27, 2018 *Daejon, South Korea*	**Human-AI Interaction: Understanding How People Interact with Artificial Intelligence** IoT Research Division, Hyper-connected Communication Research Laboratory, Electronics and Telecommunications Research Institute (ETRI)
Jul. 13, 2017 *Daejon, South Korea*	**The Future of HCI** IoT Research Division, Hyper-connected Communication Research Laboratory, Electronics and Telecommunications Research Institute (ETRI)

ACADEMIC SOCIETIES AND SERVICE

Membership	ACM Membership (2019 – Present) ACM Student Membership (2013 – 2019) HCI Korea Membership (2012 – Present) OOO University HCI Group Membership (2012 – Present)
Peer Reviewing	ACM Conference on Human Factors in Computing Systems (CHI) 2017 – 2021 ACM Computer Supported Collaborative Work (CSCW) 2020 ACM Conference on Creativity & Cognition (C&C) 2021 ACM Intelligent User Interfaces (IUI) 2016
Conference Organizing	Program Committee, SNUxHCI Group Day 2015-2017

REFERENCES

Jodi Forlizzi
Geschke Director and Professor
Human-Computer Interaction Institute
Carnegie Mellon University
forlizzi@cs.cmu.edu

John Zimmerman
Tang Family Professor of Artificial Intelligence and Human-Computer Interaction
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joonlee8@snu.ac.kr

Joonhwan Lee
Professor
Department of Communication, School of Social Sciences
Seoul National University
joonhwan@snu.ac.kr

Juho Kim
Associate Professor
School of Computing
Korea Advanced Institute of Science and Technology (KAIST)
juhokim@kaist.ac.kr

Nam Wook Kim
Assistant Professor
Computer Science Department
Boston College
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