

DAJUNG KIM

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RESEARCH INTERESTS Human-Centered AI & Design, Human-AI Partnership, Algorithmic User Experience, Human-Computer Interaction, Design Methodology.

EDUCATION **Korea Advanced Institute of Science and Technology (KAIST)** Daejeon, Korea
Doctor of Philosophy, Department of Industrial Design Feb. 2012 – Feb. 2019
Advisor: Youn-kyung Lim, Ph.D.
Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Korea
Master of Science, Department of Industrial Design Mar. 2010 – Jan. 2012
Advisor: Youn-kyung Lim, Ph.D.
Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Korea
Bachelor of Science, Department of Industrial Design Mar. 2006 – Feb. 2010

PROFESSIONAL APPOINTMENTS **Industrial Design, Eindhoven University of Technology** Eindhoven, The Netherlands
Postdoctoral Researcher. (Working with Yaliang Chuang) Dec. 2019 – Present
Human-Computer Interaction Group, Microsoft Research Asia Beijing, China
Research Intern. (Mentor: Darren Edge) Sept. 2013 – Nov. 2013
Creative Interaction Design Lab., KAIST Daejeon, Korea
Research Assistant. (Advisor: Youn-kyung Lim) May 2009 – Jan. 2019

PUBLICATIONS **International Conference**

1. **Co-Performing Agent: Design for Building User-Agent Partnership in Learning and Adaptive Services.** Da-jung Kim and Youn-kyung Lim. In *Proceedings of CHI 2019: ACM Conference on Human Factors in Computing Systems*. (acceptance rate: 23.8%, 14 pages)
2. **Design Opportunities in Three Stages of Relationship Development between Users and Self-Tracking Devices.** Da-jung Kim, Yeoreum Lee, Saeyoung Rho, and Youn-kyung Lim. In *Proceedings of CHI 2016: ACM Conference on Human Factors in Computing Systems*. (acceptance rate: 23.4%, 5 pages)
3. **Friends in Activity Trackers: Design Opportunities and Mediator Issues in Health Products and Services.** Yeoreum Lee, Min Gyung Kim, Saeyoung Rho, Da-jung Kim, and Youn-kyung Lim. In *Proceedings of IASDR 2015: International Association of Societies of Design Research Conference*. (14 pages) ****Best Paper Award****
4. **Dwelling Places in KakaoTalk: Understanding the Roles and Meanings of Chatrooms in Mobile Instant Messengers.** Da-jung Kim and Youn-kyung Lim. In *Proceedings of CSCW 2015: ACM conference on Computer-Supported Collaborative Work and Social Computing*. (acceptance rate: 28.3%, 10 pages)
5. **Understanding the Curation Activities of Creating Personal and Social Meanings for Virtual Possessions.** Jin-min Seok, Da-jung Kim, Youn-kyung Lim, Tek-jin Nam, Moon-hwan Lee, Yeoreum Lee, Yea-kyung Row, Bokyoung Sohn, John Zimmerman, Jodi Forlizzi, William Odom, Ana López Higuera, Mauro Marchitto, José Cañas, and Heather A. Moore. In *Proceedings of IASDR 2013: International Association of Societies of Design Research Conference*. (12 pages)
6. **Bridging Research and Practice in Design: Reflections of the Project on Value Construction with Virtual Possessions.** Moon-Hwan Lee, Tek-Jin Nam, Yeoreum Lee, Yea-kyung Row, Youn-kyung Lim, Da-jung Kim, Jinmin Seok, William Odom, John Zimmerman, Jodi Forlizzi, Ana López Higuera,

Mauro Marchitto, José Cañas, and Heather A. Moore. In *Proceedings of IASDR 2013: International Association of Societies of Design Research Conference*. (12 pages)

7. **Fragmentation and Transition: Understanding Perceptions of Virtual Possessions among Young Adults in Spain, South Korea and the United States.** William Odom, John Zimmerman, Jodi Forlizzi, Ana López Higuera, Mauro Marchitto, José Cañas, Youn-kyung Lim, Tek-Jin Nam, Moon-Hwan Lee, Yeoreum Lee, **Da-jung Kim**, Yea-kyung Row, Jinmin Seok, Bokyung Sohn, and Heather Moore. In *Proceedings of CHI 2013: ACM Conference on Human Factors in Computing Systems*. (acceptance rate: 20%, 10 pages)
8. **iSpace: Interactivity Expression for Self-Expression in an Online Communication Environment.** **Da-jung Kim** and Youn-kyung Lim. In *Proceedings of DIS 2012: ACM Conference on Designing Interactive Systems*. (acceptance rate: 20%, 10 pages) ****Honorable Mention****
9. **Handscope: Enabling Blind People to Experience Statistical Graphics on Websites through Haptics.** **Da-jung Kim** and Youn-kyung Lim. In *Proceedings of CHI 2011: ACM Conference on Human Factors in Computing Systems*. (acceptance rate: 27%, 4 pages)

International Journal

1. **Interactivity Attributes for Expression-Oriented Interaction Design.**
Youn-kyung Lim, Sang-su Lee, and **Da-jung Kim**.
International Journal of Design 5(3): 113-128. (2011)

Extended Abstracts: Doctoral Consortium & Works-in-Progress

1. **SlumberBot: An Interactive Agent for Helping Users Investigate Disturbance Factors of Sleep Quality.** Yizhou Liu, **Da-jung Kim**, Miao Ting, and Yaliang Chuang. In *Proceedings of NordiCHI 2020: The 11th Nordic Conference on Human-Computer Interaction* (Posters).
2. **Designing for Triggering Self-Investigations and Reflections on Factors Related to Sleep Health.** San San Nguyen, **Da-jung Kim**, Ting Miao, and Yaliang Chuang. 2020. In *Proceedings of NordiCHI 2020: The 11th Nordic Conference on Human-Computer Interaction* (Posters).
3. **Design for User Autonomy in the System-Driven Personalization of Social Media.** **Da-jung Kim**. In *Proceedings of CSCW Companion 2016: ACM Conference on Computer Supported Cooperative Work and Social Computing Companion* (Doctoral Consortium).
4. **My Own-Style Interaction: Exploring Individuals' Preferences to Interactivity.** **Da-jung Kim**, Youn-kyung Lim, and Hyeon-Jeong Suk. In *Proceedings of Extended Abstracts on CHI EA 2011: ACM Conference on Human Factors in Computing Systems* (Works-in-Progress).
5. **Interactivity Sketcher: Crafting and Experiencing Interactivity Qualities.** Jong-bum Woo, **Da-jung Kim**, Suin Kim, Jaesung Jo, and Young-kyung Lim. In *Proceedings of Extended Abstracts on CHI EA 2011: ACM Conference on Human Factors in Computing Systems* (Works-in-Progress).

TEACHING AND MENTORING

Student Coaching

The 'Seamless Interaction Design for Professionals' Squad (TU/e DFP005)

2020

Teaching Assistant

User-Centered Service Design for IT Convergence (KAIST ITC201)

Spring 2015

Design Methodology (KAIST ID303)

Fall 2014

Product Design Program (KAIST ID340)

Fall 2010

Undergraduate Individual Research (KAIST ID495)

Fall 2011, 2014

Undergraduate Graduation Project (KAIST ID490)

Spring 2012

Undergraduate Research Project (KAIST URP Program)

Fall 2011

HONORS AND AWARDS	Travel Grant for Female Scholars in South Korea (Granted by WISET Korea)	2019
	Best Paper Award at IASDR'15	2015
	Microsoft Research Asia Fellowship Finalist	2012
	Honorable Mention Award at DIS'12	2012
	Dean's List (Department of Industrial Design, KAIST)	2007 – 2009
	Government Fellowship (Korea Ministry of Science and Technology)	2006 – 2009
RESEARCH PROJECTS	Development of Intelligent Interaction Technology Based on Context Awareness and Human Intention Understanding (<i>Funded by IITP, PI: Youn-kyung Lim</i>)	Dec. 2016 – Jan. 2019
	<ul style="list-style-type: none"> Ideated evolving UX scenarios for smart home healthcare services. Conducted a thematic analysis on a long-term user study data. Published 1 first-authored paper at CHI'19 	
	Developing a Service Design Model for Personalized Connected-Car Services (<i>Funded by NAVER LABS Corp., PI: Youn-kyung Lim</i>)	Apr. 2016 – Sept. 2016
	<ul style="list-style-type: none"> Defined project goals and formed research questions on adaptive in-car services. Designed and prototyped a wizard-of-Oz-based agent interface for a two-month participatory design study Developed a service design model for smart and evolving services. 	
	Developing UX Scenarios for User Lifestyle-Personalized Health Promotion based on Physical Activity Data (<i>Funded by KAIST, PI: Youn-kyung Lim</i>)	Mar. 2014 – Dec. 2014
	<ul style="list-style-type: none"> Designed and conducted a three-week diary study to understand user experience of fitness trackers. Identified and articulated UX challenges and opportunities based on interpersonal communication theories. Published 1 first-authored paper at CHI'16 and 1 co-authored paper at IASDR'15. 	
	Understanding Value Construction with Digital Things (<i>Funded by Vodafone, Co-PIs: Youn-kyung Lim & Tek-jin Nam</i>)	Dec. 2011 – Dec. 2012
	<ul style="list-style-type: none"> Conducted cross-cultural field studies (home visiting & interviews) with Carnegie Mellon University (US), University of Granada (Spain) and Vodafone (Germany) to understand how young adults give meanings to their virtual possessions. Developed mobile service scenarios and value exchange flows aimed at improving the experiences of reminiscing and sharing virtual possessions. Published 3 co-authored papers at IASDR'13 and CHI'13. 	
	Developing a Theory and a Prototyping System for Creative Interaction Design (<i>Funded by National Research Foundation of Korea, PI: Youn-kyung Lim</i>)	May 2009 – Dec. 2011
	<ul style="list-style-type: none"> Conducted multiple lab-based user studies to understand the effects of interactivity attributes on emotional perceptions. Devised a tutorial for interaction designers describing the relations between interactivity attributes and emotional experience and conducted a comparative study to investigate the effects of interactivity tutorial on interaction design process. Published 2 first-authored papers (CHI EA'11, DIS'12) and 2 co-authored papers (International Journal of Design, CHI EA'11). 	
	Eindhoven University of Technology	Sept. 10, 2019
	"Designing for the Desired Future of Personal Assistants"	
INVITED TALKS	Microsoft Research Asia Ph.D. Forum 2015	Sept. 8, 2015
	"Design for User Autonomy in the System-Driven Personalization in Social Media"	
	SIGCHI Session at HCI Korea	Jan. 12, 2012
	"Handscope: Enabling Blind People to Experience Statistical Graphics on Websites through Haptics"	

PROFESSIONAL
SERVICES

AC

CHI 2021 (Late-Breaking Works)

Reviewer

C&C 2021 (Papers), DIS 2021 (Papers), TOCHI, CHI 2021 (Papers), HCI Korea 2021 (Papers & Posters)

CHI 2020 (Papers), MobileHCI 2020 (Papers)

CHI 2019 (Late-Breaking Works)

DIS 2018 (Pictorials)

Student Volunteer

CHI 2015 SV

2009 Sharing Experience Workshop organized by MIT Media Lab Korean Students Association

REFERENCES

Youn-kyung Lim (younlim@kaist.ac.kr)

Professor in the Department of Industrial Design

Korea Advanced Institute of Science and Technology (KAIST), South Korea

Lin-Lin Chen (l.chen@tue.nl)

Dean/Professor in the Department of Industrial Design

Eindhoven University of Technology (TU/e), The Netherlands

Yaliang Chuang (y.chuang@tue.nl)

Assistant Professor in the Department of Industrial Design

Eindhoven University of Technology(TU/e), The Netherlands