Jisoo Lee CV

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RESEARCH INTEREST

I am interested in designing, building, and evaluating user experience with technology to address high-impact social issues related to self-directed life improvement and physical / emotional health. Specifically, my dissertation intends to empower individuals with tools that enable them to explore, invent, and experiment with behavior change solutions to a personally salient home-based behavior. I aim to understand how tools that foster self-experimentation of behavior change strategies and technology-augmented solutions can support fulfillment and increased self-control. Outside of my dissertation research, I have been exploring use of ubiquitous computing technology for the elder at the mild stage of dementia. I was engaged in a project (DRESS) that develops low-cost systems to help the elder with cognitive declination dress successfully without presence of caregivers.

EDUCATION

PhD, Media Arts and Sciences (MAS), December 2016.
> School of Arts, Media + Engineering, Arizona State University
> Area: HCI, UbiComp; Thesis: 'Supporting of Self-Experimentation of Behavior Change Strategies'; Advisors: Winslow Burleson, Eric Hekler, Erin Walker

M.S., Industrial Design, February 1997
> Department of Industrial Design, KAIST (Daejon, Korea)

B.S., Industrial Design, February 1995
> Department of Industrial Design, KAIST (Daejon, Korea)

PROFESSIONAL EXPERIENCE

Research Assistant, Arizona State University
> September 2013 – March 2016
> Worked in a Google Faculty Award project (PI: Eric B. Hekler, Co-PI: Winslow Burleson), *A DIY Self-Experimentation Toolkit for Fostering User-Driven Behavior Change*; Conduct formative user study, design/build sensor-based responsive systems, and write for publications

Faculty, Keimyung College (Daegu, Korea)
> March 1999- August 2007
> Taught design fundamentals, computer aided design, and web design course
> Contributed to projects sponsored by the Korean government to promote small and medium sized business – designed/developed corporate visual identity and e-commerce systems

Researcher, Industrial Engineering and Management Research Institute, KAIST (Daejon, Korea)
 November 1997- February 1999
 Designed web interface of Republic of Korea Navy Headquarters intranet

Research Assistant, Department of Industrial Design, KAIST (Daejon, Korea)
 March 1995- February 1997
 Participated in Cultural Interface Design project, part of a Samsung-KAIST Future
 Technology Research project

PUBLICATIONS

1. Lee, J., Walker, E., Burleson, W., Kay, M., Buman, M., & Hekler., E. B. (2017). Self-Experimentation for Behavior Change: Design and Formative Evaluation of Two Approaches. In *CHI'17 extended abstracts on Human factors in computing systems*. ACM.

2. Lee, J., Hekler, E. B, Chiauzzi, E., Towner, A., & Fitz-Randolph, M. (2016). Helping Users' Set Rules for Defining Short-Term Activity Goals. In *CHI'16 extended abstracts on Human factors in computing systems*. ACM.

3. Lee, J., Walker, E., Burleson, W., & Hekler, E. B. (2015). Understanding Users' Creation of Behavior Change Plans with Theory- Based Support. In *CHI'15 extended abstracts on Human factors in computing systems*. ACM.

4. Ryan, B., Burleson, W., Forlizzi, J., Heywood, W., & Lee, J. (2015). Building Change: Constructive Design of Smart Domestic Environments for Goal Achievement. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*. ACM.

5. Lee, J., Walker, E., Burleson, W., & Hekler, E. B. (2014). Programming tool of context-aware applications for behavior change. In *Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct Publication (UbiComp '14 Adjunct)* (pp. 91-94). ACM.

6. Lee, J., Walker, E., Burleson, W., & Hekler, E. B. (2014). Exploring users' creation of personalized behavioral plans. In *Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct Publication (UbiComp '14 Adjunct)* (pp.703-706). ACM.

7. Lozano, C., Burleson, W., Ravishankar, V., Lee, J., Muldner, K., & Mahoney, D. (2014). ASSISTING WITH DRESSING ACTIVITIES FOR PEOPLE WITH DEMENTIA VIA ADAPTIVE PROMPTING. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association, 10*(4), P443.

8. Lee, J., Garduño, L., Walker, E., & Burleson, W. (2013). A tangible programming tool for creation of context-aware applications. In *Proceedings of the 2013 ACM international joint conference on Pervasive and ubiquitous computing* (pp. 391-400). ACM.

9. Lee, J. (2013). Supporting self-experimentation of behavior change strategies. In Proceedings of the 2013 ACM conference on Pervasive and ubiquitous computing adjunct publication (pp. 361-366). ACM.

10. Hekler, E.B., Burleson, W., <u>Lee, J</u>. (2013). A DIY self-experimentation toolkit for behavior change. Published & Presented via the Personal Informatics in the Wild: Hacking Habits for Health & Happiness at the ACM-CHI Conference. Paris, France. http://personalinformatics.org/chi2013/hekler

11. Byun, J., Kim, C., Kim, S., Kim, M., Seo, J., Kim, B., <u>Lee, J</u>., Kim, T., Woo, M. (2004). A Study on the Ubiquitous Computing Service Design System. In *Proceedings of the 2nd annual conference of Asia Digital Art and Design Association* (pp. 60-61)

12. <u>Lee, J</u>. (2003). Interface Design of Web-Based Instructional System for Multimedia Design Curriculum. In *Proceedings of the Fall 2003 conference of Korean Society of Design Science* (pp.100-101)

13. <u>Lee, J</u>. (2002). A Study on the Fundamental Course of Multimedia Design. *Journal of Korean Society of Design Science, 15 (4),* 223-230.

14. <u>Lee, J</u>. (2000). Selection of Media and Representation Factor for Multimedia Information. *Journal of Korean Society of Design Science, 13 (4)*, 195-201.

15. <u>Lee, J</u>. (2000). A Study on the Relationship between Information Model and Usability of Website. *Journal of Korean Society of Design Science, 13 (4)*, 67-75.

PROFESSIONAL SERVICES

CHI 2017, Reviewer
CHI 2016, Student volunteering

REFERENCES

Eric B. Hekler
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Arizona State University
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Erin Walker
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Winslow Burleson
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New York University
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Eunsook Kwon
Associate Professor / Director of Industrial Design Program
Gerald D. Hines College of Architecture
University of Houston
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