

Ji Youn Shin, PhD

Assistant Professor, College of Design
University of Minnesota, Minneapolis, MN 55455
email: shinjy@umn.edu

RESEARCH INTERESTS

HCI (Human-Computer Interaction), Design, Health Informatics, Family Health and Wellness

EDUCATION

- 2022 **Michigan State University**, East Lansing, MI
PhD in Information and Media, Communication Arts and Sciences
Committee: Dr. Wei Peng (co-chair); Dr. Hee Rin Lee (co-chair); Dr. Susan Wyche; Dr. Bree E. Holtz
Thesis: *Sleep Management as a Collaborative Work for the Family: Designing Sleep Management Systems to Improve Bedtime Routine*
- 2017 **University of Michigan**, Ann Arbor, MI
Master of Design in Integrative Design, Stamps School of Art and Design
(Tuition waiver, health benefits, and stipend for the 2-year degree program)
Thesis: *Patient-Provider Communication: Improving Patients' Comprehension of Their Care*
- 2013 **Ewha Womans University**, Seoul, South Korea.
Master of Design in Industrial Design, School of Arts and Design
Thesis: *Service Design for Women's hospital*
- 2011 **Ewha Womans University**, Seoul, South Korea
Bachelor of Fine Arts in Environmental Design, School of Arts and Design

AWARDS

- 2022 **Commendation for Exceptional Effort in Community Engagement Scholarship 2022**
University Outreach and Engagement, Michigan State University
- 2021 **Best Paper Award (Top 1% Submission)**
ACM CSCW (Conference on computer-Supported Cooperative Work and Social Computing)
- 2020 **Best Paper Honorable Mention Award (Top 5% Submission)**
EAI Pervasive Health and technology

Mark Levy ICT4D (Information and communications technology for development Award

Media and Information, Michigan State University

2017 **Jean Paul Slusser Award**

Stamps School of Art and Design, University of Michigan

**PUBLICATIONS
FULL PAPERS**

2022 **Shin, J.Y.**, Peng, W., & Lee, H.R. More than Bedtime and the Bedroom: Sleep Management as a Collaborative Work for the Family. *In Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (2022)*

Shin, J.Y., Okammor, N., Hendee, K., Pawlokowski, A., Jenq, G., & Bozaan, D. The SAFEDC Model for Improving Transitions of Care: Lessons Learned from a Participatory Design Workshop. *JMIR formative research (2022)*

2021 **Shin, J. Y.**, Chaar, D., Davis, E. C., Choi, S.W., & Lee, H.R. Every Cloud Has a Silver Lining: Exploring Experiential Knowledge and Assets of Family Caregivers. *Proc. ACM Hum.-Comput. Interact. 5, CSCW2, Article 416 (2021)*
*** Best Paper Award (top 1% submission)**

Shin, J. Y., Rheu, M., Huh-Yoo, J., & Peng, W. Designing Technologies to Support Parent-Child Relationships: A Review of Current Findings and Suggestions for Future Directions. *Proc. ACM Hum.-Comput. Interact. 5, CSCW2, Article 441 (2021)*

Rheu, M., **Shin, J. Y.**, Peng, W., & Huh-Yoo, J. Systematic Review: Trust-Building Factors and Implications for Conversational Agent Design. *International Journal of Human-Computer Interaction, 1-16.*

2020 **Shin, J. Y.**, Chaar, D., Kedroske, J., Vue, R., Mazzoli, A., ... & Choi, S. W. Harnessing mobile health technology to support long-term chronic illness management: Exploring family caregiver support needs in the outpatient setting. *JAMIA Open 3(4), 593-601.*

Shin, J. Y., & Huh-Yoo, J. Designing Everyday Conversational Agents for Managing Health and Wellness: A Study of Alexa Skills Review. *In Proceedings of the 14th EAI International Conference on Pervasive Computing Technologies for Healthcare (Pervasive Health).* *** Best Paper Honorable Mention Award (top 5% submission)**

Shin, J. Y. & Holtz, B. E. Identifying Opportunities and Challenges: How Children Use Technologies for Managing Diabetes. *In Proceedings of the 19th ACM International Conference on Interaction Design and Children*. ACM.

Shin, J. Y., & Choi, S. W. Online Interventions geared towards increasing resilience and reducing distress in caregivers and families. *Current Opinion in Supportive & Palliative Care*, 14 (2020): 60-66.

Kedroske, J., Koblick, S., Chaar, D., Mazzoli, A., O'Brien, M., Yahng, L., Vue, R., Chappell, G., **Shin, J.Y.**, Hanauer, D.A., & Choi, S.W. (2020). Development of a National Caregiver Health Survey for Hematopoietic Stem Cell Transplant: Qualitative Study of Cognitive Interviews and Verbal Probing. *JMIR Form Res* 2020;4(1):e17077

2019 Chaar, D., **Shin, J. Y.**, Mazzoli, A., Vue, R., Kedroske, J., Chappell., G, ... & Choi, S. W. A Mobile Health App (Roadmap 2.0) for Patients Undergoing Hematopoietic Stem Cell Transplant: Qualitative Study on Family Caregivers' Perspectives and Design Considerations *JMIR Mhealth Uhealth*, 2019;7(10):e15775

Fauer, A.J., Hoodin, F., Lalonde, L., Errickson, J., Runaas, L., Churay, T., Seyedsalehi, S., Warfield, C., Chappell, G., Brookshire, K., Chaar, D., **Shin, J. Y.**, Byrd, M., Magenau, J., Hanauer, D. & Choi, S. W. Impact of a health information technology tool addressing information needs of caregivers of adult and pediatric hematopoietic stem cell transplantation patients. *Supportive Care in Cancer*, 1-10.

2018 **Shin, J. Y.**, Kang, T. I., Noll, R. B. & Choi, S. W. Supporting caregivers of patients with cancer: a summary of technology-mediated interventions and future directions. *American Society of Clinical Oncology Educational Book*, 38, 838-849.

PUBLICATIONS

EXTENDED ABSTRACTS

2022 Abdi, M., Hamp, E., Oistad, W., **Shin, J. Y.**, & Lee, H.R. (2022). Gamer Breakbots: Exploring robots as a way for gamers to manage break time and alleviate potential health issues. *ACM/IEEE International Conference on Human-Robot Interaction 2022*.

2020 Smriti, D., **Shin, J. Y.**, Mujib, M.I., Colosimo, M., Kao, T., W., Williams, J.R., & Huh-Yoo, J. TAMICA: Tailorable Autonomous Motivational Interviewing

Conversational Agent. *14th EAI International Conference on Pervasive Computing Technologies for Healthcare (Pervasive Health)*

Shin, J. Y., Vue, R., Kedroske, J., Mazzoli, A., Holtz, B. E., and Choi, S.W. Designing a Tool for Promoting Fluid-Intake Behavior: A Qualitative Study with Pediatric Patients. In *Proceedings of the 19th ACM International Conference on Interaction Design and Children*. ACM.

- 2019 **Shin, J. Y.**, & Holtz, B. E. Towards Better Transitions for Children with Diabetes: User Experiences on a Mobile Health App. In *Proceedings of the 18th ACM International Conference on Interaction Design and Children* (pp. 623-628). ACM.
- 2018 **Shin, J. Y.**, Kedroske, J., Vue, R., Sankaran, R., Chaar, D., Churay, T. & Choi, S. W. Design considerations for family-centered health management: preliminary findings with pediatric BMT patients. In *Proceedings of the 17th ACM Conference on Interaction Design and Children* (pp. 593-598). ACM.
- 2017 **Shin, J. Y.**, Marshall, J., Bozaan, D., Nunoo-Quarcoo, F. & Park, S. Y. Patient-Provider Communication: Improving Patients' Comprehension of Their Care. *AMIA 2017: Workshop on Interactive Systems in Healthcare (WISH)*

CONFERENCES & POSTERS

- 2021 Kao, T.-S. A., Ling, J., Smriti, D., **Shin, J.Y.**, Peng, W., Huh-Yoo, J. The Feasibility of Technology-Adapted Motivational Interviewing (TAMI), Poster presentation. *2021 MNRS Virtual Annual Research Conference*.
- 2020 Smriti, D., **Shin, J. Y.**, Mujib, M.I., Colosimo, M., Kao, T., W., Williams, J.R., & Huh-Yoo, J. TAMICA: Tailorable Motivational Interviewing Conversational Agent. *ACM CHI Workshop on Conversational AI in Healthcare*. Hawaii, United States. <https://chi2020.acm.org>
- Shin, J. Y.**, & Holtz, B. A Qualitative Study Examining Children's Everyday Health Management Using Health Technologies. *KCHC Health Communication Conference 2020, Lexington, KY, April*
- 2019 **Shin, J. Y.**, Chaar, D., Kedroske, J., Vue, R., Chappell, G., & Choi, S. W. Understanding Family Caregiver's Information Management: Opportunities and Challenges in Cancer Caregiving. *D.C. Health Communication Conference 2019, Fairfax, VA, April*

Shin, J. Y., & Holtz, B. User Perspectives of an App Developed to Improve Communication in Families Regarding Type 1 Diabetes. *D.C. Health Communication Conference 2019, Washington, D.C.*

Chaar, D., **Shin, J. Y.**, Vue, R., Kedroske, J., Chappell, G., Mazzoli, A., Churay, T., & Choi, S. W. Perspectives of the Family Caregiver from the Home Setting of BMT Patients: Using Mobile Technology for Health Communication. *D.C. Health Communication Conference 2019, Fairfax, VA, April*

2018 **Shin, J. Y.**, Goyal, A. & Bozaan, D., Interactive Tools for Patient's Comprehension: Patient Experiences Reviewing Daily Basis Records *Hospital Medicine Conference 2018, Orlando, FL, April.*

ART AND DESIGN EXHIBITIONS

2017 **Integrative Pathway to Care**, *Stamps Gallery, Ann Arbor, MI*

2015 **Stamps First Year Exhibition**, *Work Gallery, Ann Arbor, MI*

2009 **Environmental Design**, Space design for woman's hospital
Ewha Art Museum, Seoul, Korea

2008 **May Day Exhibition**, *Ewha Campus Complex Museum, Seoul, Korea*

GRANTS/ FELLOWSHIPS

2022 **Dissertation Fellowship**
Michigan State University

2021 **Summer Research Fellowship**
Information and Media PhD program, Michigan State University

Thomas F. Baldwin Endowed Fellowship
Dept. of Media and Information, Michigan State University

2020 **Summer Research Fellowship**
Information and Media PhD program, Michigan State University

Charles J. Strosacker Fellowship
Michigan State University

Ewha Grant for Graduate Students

Ewha Womans University, Alumnae Association

Mary Louise Gephart Donnell Fellowship (Fellowship for research endeavors in human environment and design)

2019

Summer Research Fellowship

Information and Media PhD program, Michigan State University
Graduate School, Michigan State University

Research Travel Fellowship

Media and Information, Michigan State University