

Jaeyoon Song

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INTERESTS

Human-AI Interaction, Collaboration, Generative AI, Computational Social Science.

EDUCATION

Massachusetts Institute of Technology, Cambridge, MA

Feb 2021 – Present

- Ph.D., Information Technology
- Advisor: Prof. Thomas W. Malone
- Grade: 5.0/5.0

Seoul National University, Seoul, South Korea

Mar 2016 – Feb 2021

- B.B.A., Business Administration
- Minor in Computer Science and Engineering
- Grade: Summa Cum Laude

PUBLICATIONS

JOURNAL & CONFERENCE PAPERS

- [1] S. Park, J. Song, D. Karger, T. Malone, **Who2chat: A Social Networking System for Academic Researchers in Virtual Social Hours Enabling Coordinating, Overcoming Barriers and Social Signaling**, *ACM SIGCHI Conference on Computer-Supported Cooperative Work Social Computing (CSCW 2024)*.
- [2] J. Song, C. Riedl, T. Malone, **Online Mingling: Supporting Ad Hoc, Private Conversations at Virtual Conferences**, *ACM SIGCHI Conference on Human Factors in Computing Systems 2021 (CHI 2021)*.
- [3] S. Lee, J. Song, S. Park, J. Kim, J. Kim, E. Ko, **SolutionChat: Real-time Moderator Support for Chat-based Structured Discussion**, *ACM SIGCHI Conference on Human Factors in Computing Systems 2020 (CHI 2020)*.
- [4] D. Shin, J. Song, S. Song, J. Park, J. Lee, S. Jun, **TalkingBoogie: Collaborative Mobile AAC System for Non-verbal Children with Developmental Disabilities and Their Caregivers**, *ACM SIGCHI Conference on Human Factors in Computing Systems 2020 (CHI 2020)*.
- [5] J. Song and C. Kim, **What Is Needed for the Sustainable Success of Open Source Software Projects: Efficiency Analysis of Commit Production Process via Git**, *Sustainability*, vol. 10, no. 9, Aug 2018.

WORKING PAPERS

- [6] A. Campero*, M. Vaccaro*, J. Song, H. Wen, A. Almaatouq, T. Malone, **A Test for Evaluating Performance in Human-AI Systems**, *MIT Working Paper*, 2022.
- [7] J. Song, Z. Ashktorab, Q. Pan, C. Dugan, W. Geyer, T. Malone, **Interaction Configurations and Prompt Guidance in Conversational AI for Question Answering in Human-AI Teams**, *Under Revision, CSCW 2025*.

- [8] J. Song, Z. Ashktorab, T. Malone, **Togedule: Adaptive Representation of Group Availability Using Large Language Models for Scheduling Meetings**, *Under Revision, CSCW 2025*.
- [9] **How Human-AI Synergy Changes as AI Technology Advances: A Case of Writing Short Stories**, *Work in Progress*.
- [10] **Generative AI and the Future of Work: Behavioral Adaptation on Stack Overflow Post-ChatGPT**, *Work in Progress*.

POSTERS

- [11] J. Song*, K. Choe*, J. Jo, and J. Seo, **SoundGlance: Briefing the Glanceable Cues of Web Pages for Screen Reader Users**, *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI 2019 Late Breaking Work)*, ACM, New York, NY, USA, May 2019.

RESEARCH EXPERIENCE

- Research Intern**, Bosch Research Jun 2024 – Aug 2024
 - Project: Visual Analytics System for Understanding Model Performance in Videos: The Effects of Dynamic Factors
- Research Intern**, Kixlab, KAIST Dec 2018 – Aug 2019
 - Project: Real-time Moderator Support for Chat-based Structured Discussion
 - Advisor: Prof. Juho Kim
- Research Intern**, HCI Lab, Seoul National University Jun 2018 – Aug 2018
 - Project: Briefing the Glanceable Cues of Web Pages for Screen Reader Users
 - Advisor: Prof. Jinwook Seo

TEACHING EXPERIENCE

- Guest Lecture**, Seoul Institute of the Arts Nov 2023
 - Delivered a virtual seminar as an invited speaker via Zoom webinar.
 - Developed a design thinking workshop centered on conceptualizing a group scheduling tool.
- Graduate Teaching Assistant**, MIT CSAIL Sep 2022 – Dec 2022
 - Led recitations on web technologies (e.g., Vue.js, Node.js, MongoDB, and Socket.IO) for the 6.1040 Software Studio course.
 - Average Evaluation Rating: 6.0/7.0

AWARDS & HONORS

- Next Jump Innovation Prize**, MIT Web Lab Competition 2022
 - Built a 3rd place web service among 300+ MIT students; awarded \$3,500
- Graduate School Fellowship**, MIT Sloan School of Management 2021 – Present
 - Received full departmental funding for graduate studies
- Honorable Mention Award**, ACM SIGCHI 2020
 - Recognized among the top 5% of paper submissions
- Yangyoung Foundation Scholarship**, South Korea 2018 – 2020
 - Awarded a merit-based scholarship during undergraduate studies

- Samsung Convergence Software Course Scholarship**, South Korea 2018
- Earned a scholarship for successfully completing the Samsung Convergence Software Course
- Merit-based Scholarship**, Seoul National University 2016 – 2017
- Received a merit-based scholarship during undergraduate studies.

SKILLS

- **JavaScript** (React.js, D3.js, React Native, Apollo.js, Express.js, ...)
- **Python**, R, Ruby on Rails, PostgreSQL, Prisma, Figma, \LaTeX
- Experiment design & Statistical methods (Clustering, Topic Modeling, ...)