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.*

[8] J. Song, Z. Ashktorab, T. Malone, **Togedule: Adaptive Representation of Group Availability Using Large Language Models for Scheduling Meetings**, *Under Revision.*

[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.*

[11] **Noteworthy: Leveraging Generative AI to Support the Note-Taking Process**, *Work in Progress.*

POSTERS

[12] 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

MENTORSHIP

Arman Vossoughi, Undergraduate Student at Boston University — 2024 – Present

Hongzun Zhang, Masters Student at Boston University — 2024 – Present

Alice Cai, Undergraduate Student at Harvard University — 2021 – 2023

Eve Silfanus, Undergraduate Student at Wellesley University — 2021 – 2022

Michelle Minsol Kim, Undergraduate Student at Wellesley University — 2021 – 2022

AWARDS & HONORS

Next Jump Innovation Prize, MIT Web Lab Competition 2022
- Built a 3rd place web service among 300+ MIT students; awarded $3,500

Special Recognition for Outstanding Reviews, ACM CHI 2023 2022
- Recognition for the paper reviews

Gary Marsden Travel Award, ACM SIGCHI 2022
- Travel grant for attending UIST 2022

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.

ACADEMIC SERVICE

Reviewer
- ACM CSCW 2022, 2023, 2025
- ACM CHI 2023, 2024

DOCTORAL COURSEWORK
- Applied Machine Learning (6.862), MIT
- Quantitative Methods for Natural Language Processing (6.8610), MIT
- Advances in Computer Vision (6.869), MIT
- LLM Agents and Multi-Agent Systems (QST911), Boston University
- Econometric Data Science (14.320), MIT
- Research Seminar in IT and Organizations: Economic Perspectives (15.575), MIT
- Quantitative Research Methods (17.800), MIT

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, ...)