

# 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

#### 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

	<b>Graduate School Fellowship</b> , MIT Sloan School of Management <ul style="list-style-type: none"> <li>Received full departmental funding for graduate studies</li> </ul>	2021 – Present
	<b>Honorable Mention Award</b> , ACM SIGCHI <ul style="list-style-type: none"> <li>Recognized among the top 5% of paper submissions</li> </ul>	2020
	<b>Yangyoung Foundation Scholarship</b> , South Korea <ul style="list-style-type: none"> <li>Awarded a merit-based scholarship during undergraduate studies</li> </ul>	2018 – 2020
	<b>Samsung Convergence Software Course Scholarship</b> , South Korea <ul style="list-style-type: none"> <li>Earned a scholarship for successfully completing the Samsung Convergence Software Course</li> </ul>	2018
	<b>Merit-based Scholarship</b> , Seoul National University <ul style="list-style-type: none"> <li>Received a merit-based scholarship during undergraduate studies.</li> </ul>	2016 – 2017
<b>ACADEMIC SERVICE</b>	<b>Reviewer</b> <ul style="list-style-type: none"> <li>ACM CSCW</li> <li>ACM CHI</li> </ul>	2022, 2023, 2025 2023, 2024
<b>MENTORSHIP</b>	<ul style="list-style-type: none"> <li><b>Arman Vossoughi</b>, Undergraduate Student at Boston University</li> <li><b>Hongzun Zhang</b>, Masters Student at Boston University</li> <li><b>Caitlin Ogoe</b>, Undergraduate Student at MIT</li> <li><b>Alice Cai</b>, Undergraduate Student at Harvard University</li> <li><b>Eve Silfanus</b>, Undergraduate Student at Wellesley University</li> <li><b>Michelle Minsol Kim</b>, Undergraduate Student at Wellesley University</li> </ul>	2024 – Present 2024 – Present 2022 – 2024 2021 – 2023 2021 – 2022 2021 – 2022
<b>DOCTORAL COURSEWORK</b>	<ul style="list-style-type: none"> <li>Applied Machine Learning (6.862), MIT</li> <li>Quantitative Methods for Natural Language Processing (6.8610), MIT</li> <li>Advances in Computer Vision (6.869), MIT</li> <li>LLM Agents and Multi-Agent Systems (QST911), Boston University</li> <li>Econometric Data Science (14.320), MIT</li> <li>Research Seminar in IT and Organizations: Economic Perspectives (15.575), MIT</li> <li>Quantitative Research Methods (17.800), MIT</li> </ul>	
<b>SKILLS</b>	<ul style="list-style-type: none"> <li><b>JavaScript</b> (React.js, D3.js, React Native, Apollo.js, Express.js, ...)</li> <li><b>Python</b>, R, Ruby on Rails, PostgreSQL, Prisma, Figma, <math>\LaTeX</math></li> <li>Experiment design &amp; Statistical methods (Clustering, Topic Modeling, ...)</li> </ul>	