

# Jaeyoon Song

jaeyoons@mit.edu • <https://jaeyoon.io>

## 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

- |                                                                                                                                                                      |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <b>Research Intern</b> , Bosch Research                                                                                                                              | Jun 2024 – Aug 2024 |
| <ul style="list-style-type: none"> <li>▪ Project: Visual Analytics System for Understanding Model Performance in Videos: The Effects of Dynamic Factors</li> </ul>   |                     |
| <b>Research Intern</b> , Kixlab, KAIST                                                                                                                               | Dec 2018 – Aug 2019 |
| <ul style="list-style-type: none"> <li>▪ Project: Real-time Moderator Support for Chat-based Structured Discussion</li> <li>▪ Advisor: Prof. Juho Kim</li> </ul>     |                     |
| <b>Research Intern</b> , HCI Lab, Seoul National University                                                                                                          | Jun 2018 – Aug 2018 |
| <ul style="list-style-type: none"> <li>▪ Project: Briefing the Glanceable Cues of Web Pages for Screen Reader Users</li> <li>▪ Advisor: Prof. Jinwook Seo</li> </ul> |                     |

#### TEACHING EXPERIENCE

- |                                                                                                                                                                                                                              |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <b>Guest Lecture</b> , Seoul Institute of the Arts                                                                                                                                                                           | Nov 2023            |
| <ul style="list-style-type: none"> <li>▪ Delivered a virtual seminar as an invited speaker via Zoom webinar.</li> <li>▪ Developed a design thinking workshop centered on conceptualizing a group scheduling tool.</li> </ul> |                     |
| <b>Graduate Teaching Assistant</b> , MIT CSAIL                                                                                                                                                                               | Sep 2022 – Dec 2022 |
| <ul style="list-style-type: none"> <li>▪ Led recitations on web technologies (e.g., Vue.js, Node.js, MongoDB, and Socket.IO) for the 6.1040 Software Studio course.</li> <li>▪ Average Evaluation Rating: 6.0/7.0</li> </ul> |                     |

#### MENTORSHIP

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|----------------------------------------------------------------------------|----------------|
| <b>Arman Vossoughi</b> , Undergraduate Student at Boston University        | 2024 – Present |
| <b>Hongzun Zhang</b> , Masters Student at Boston University                | 2024 – Present |
| <b>Alice Cai</b> , Undergraduate Student at Harvard University             | 2021 – 2023    |
| <b>Eve Silfanus</b> , Undergraduate Student at Wellesley University        | 2021 – 2022    |
| <b>Michelle Minsol Kim</b> , Undergraduate Student at Wellesley University | 2021 – 2022    |

AWARDS & HONORS	<b>Next Jump Innovation Prize</b> , MIT Web Lab Competition	2022
	▪ Built a 3rd place web service among 300+ MIT students; awarded \$3,500	
	<b>Special Recognition for Outstanding Reviews</b> , ACM CHI 2023	2022
	▪ Recognition for the paper reviews	
	<b>Gary Marsden Travel Award</b> , ACM SIGCHI	2022
	▪ Travel grant for attending UIST 2022	
	<b>Graduate School Fellowship</b> , MIT Sloan School of Management	2021 – Present
	▪ Received full departmental funding for graduate studies	
	<b>Honorable Mention Award</b> , ACM SIGCHI	2020
ACADEMIC SERVICE	▪ Recognized among the top 5% of paper submissions	
	<b>Yangyoung Foundation Scholarship</b> , South Korea	2018 – 2020
	▪ Awarded a merit-based scholarship during undergraduate studies	
	<b>Samsung Convergence Software Course Scholarship</b> , South Korea	2018
	▪ Earned a scholarship for successfully completing the Samsung Convergence Software Course	
DOCTORAL COURSEWORK	<b>Merit-based Scholarship</b> , Seoul National University	2016 – 2017
	▪ Received a merit-based scholarship during undergraduate studies.	
DOCTORAL COURSEWORK	<b>Reviewer</b>	
	▪ ACM CSCW	2022, 2023, 2025
	▪ ACM CHI	2023, 2024
	<b>6.862 Applied Machine Learning</b> , MIT	
	<b>6.8610 Quantitative Methods for Natural Language Processing</b> , MIT	
	<b>6.869 Advances in Computer Vision</b> , MIT	
	<b>QST911 LLM Agents and Multi-Agent Systems</b> , Boston University	
SKILLS	<b>14.320 Econometric Data Science</b> , MIT	
	<b>15.575 Research Seminar in IT and Organizations: Economic Perspectives</b> , MIT	
	<b>17.800 Quantitative Research Methods</b> , MIT	
SKILLS	▪ <b>JavaScript</b> (React.js, D3.js, React Native, Apollo.js, Express.js, ...)	
	▪ <b>Python</b> , R, Ruby on Rails, PostgreSQL, Prisma, Figma, $\LaTeX$	
	▪ Experiment design & Statistical methods (Clustering, Topic Modeling, ...)	