

Jaeyoon Song

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INTERESTS

Human-AI Interaction, Large Language Models, Social Computing

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] J. Song, Z. Ashktorab, T. Malone, **Togedule: Adaptive Representation of Group Availability Using Large Language Models for Scheduling Meetings**, *ACM SIGCHI Conference on Computer-Supported Cooperative Work Social Computing (CSCW 2025)*.
- [2] 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**, *ACM SIGCHI Conference on Computer-Supported Cooperative Work Social Computing (CSCW 2025)*.
- [3] 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)*.
- [4] 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)*.
- [5] 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)*.
- [6] 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)*.

- [7] 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.

MANUSCRIPTS UNDER REVIEW

- [8] **Who Stays, Who Leaves? Behavioral Trends in the Online Knowledge Community Since the Emergence of Generative AI**. *Under Revision*.
- [9] J. Song, S. Park, T. Malone, **Designing for Effortful AI: The Efficiency-Learning Dilemma in AI-Assisted Note-Taking**. *Under Review*.
- [10] M. Vaccaro, J. Song, A. Almaatouq, M. Bakker, **The Case for Harmful Capability Uplift: Why AI Safety Evaluation Must Focus on Human-AI Systems**. *Under Review*.

WORKING PAPERS

- [11] 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.
- [12] **How Human-AI Synergy Changes as AI Technology Advances: A Case of Writing Short Stories**. *Work in Progress*.
- [13] **FutureBench: Forward-Only Evaluation of Retrieval-Augmented LLM Forecasting**. *Work in Progress*.

POSTERS

- [14] 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

Microsoft Research , New York, NY	2025
▪ Research Intern	
▪ Project: Exploring the Capabilities of Large Language Models in Real-World Forecasting	
Bosch Research , Sunnyvale, CA	2024
▪ Research Intern	
▪ Project: Visual Analytics System for Understanding Dynamic Factors in Videos	
Adobe Research , San Jose, CA	2023
▪ Research Intern	
Kixlab , KAIST	2018 – 2019
▪ Undergraduate Research Intern	
▪ Project: Real-time Moderator Support for Chat-based Structured Discussion	
HCI Lab , Seoul National University	2018
▪ Undergraduate Research Intern	
▪ Project: Briefing the Glanceable Cues of Web Pages for Screen Reader Users	

TEACHING EXPERIENCE	Graduate Teaching Assistant , MIT Sloan School of Management	Sep 2025 – Dec 2025
	<ul style="list-style-type: none"> Course: 15.572 - Analytics Lab (Action Learning Seminar on Analytics, Machine Learning, and the Digital Economy) 	
	Guest Lecture , Seoul Institute of the Arts	Nov 2023
	<ul style="list-style-type: none"> Delivered a virtual seminar as an invited speaker via Zoom webinar. Developed a design thinking workshop centered on conceptualizing a group scheduling tool. 	
AWARDS & HONORS	Graduate Teaching Assistant , MIT CSAIL	Sep 2022 – Dec 2022
	<ul style="list-style-type: none"> Course: 6.1040 - Software Studio Led recitations on web technologies (e.g., Vue.js, Node.js, MongoDB, and Socket.IO) Average Evaluation Rating: 6.0/7.0 	
	Next Jump Innovation Prize , MIT Web Lab Competition	2022
	<ul style="list-style-type: none"> Built a 3rd place web service among 300+ MIT students; awarded \$3,500 	
	Special Recognition for Outstanding Reviews , ACM CHI 2023	2022
	<ul style="list-style-type: none"> Recognition for the paper reviews 	
	Gary Marsden Travel Award , ACM SIGCHI	2022
	<ul style="list-style-type: none"> Travel grant for attending UIST 2022 	
	Graduate School Fellowship , MIT Sloan School of Management	2021 – Present
	<ul style="list-style-type: none"> Received full departmental funding for graduate studies 	
	Honorable Mention Award , ACM SIGCHI	2020
	<ul style="list-style-type: none"> Recognized among the top 5% of paper submissions 	
	Yangyoung Foundation Scholarship , South Korea	2018 – 2020
	<ul style="list-style-type: none"> Awarded a merit-based scholarship during undergraduate studies 	
	International Samsung AI Challenge, Final Round Award , Samsung Research	2018
	<ul style="list-style-type: none"> Developed a personalized restaurant recommender system with collaborative filtering and deep learning algorithms using restaurants rating and text review data 	
	Samsung Convergence Software Course Scholarship , South Korea	2018
ACADEMIC SERVICE	<ul style="list-style-type: none"> Earned a scholarship for successfully completing the Samsung Convergence Software Course 	
	Merit-based Scholarship , Seoul National University	2016 – 2017
	<ul style="list-style-type: none"> Received a merit-based scholarship during undergraduate studies. 	
	Reviewer	
MENTORSHIP	<ul style="list-style-type: none"> ACM CSCW ACM CHI 	2022, 2023, 2025 2023, 2024
	<ul style="list-style-type: none"> Arman Vossoughi, Undergraduate Student at Boston University 	2024 – Present
	<ul style="list-style-type: none"> Hongzun Zhang, Masters Student at Boston University 	2024 – Present

- **Caitlin Ogoe**, Undergraduate Student at MIT 2022 – 2024
- **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

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
- Research Seminar in IT and Organizations: Economic Perspectives (15.575), MIT
- Quantitative Research Methods (17.800), MIT
- Interactive Data Visualization (6.C85), 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, ...)