

Jaeyoon Song

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INTERESTS

Large Language Models, Human-AI Interaction, Multi-Agent Systems.

EDUCATION

Massachusetts Institute of Technology, Cambridge, MA

Feb 2021 – May 2026

- 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] J. Song*, B. Luttges*, M. Alsobay, D. Goldstein, **Forecasting with LLMs: A Dataset for Rapid Backtesting Without Temporal Contamination**. *Under Review*.
- [9] J. Song, A. Vossoughi*, H. Zhang*, D. Lee, **The Generative AI Divide: A Descriptive Analysis of Heterogeneous Adaptation Among Knowledge Contributors**. *Under Revision*.
- [10] J. Song, S. Park, T. Malone, **Designing for Effortful AI: The Efficiency-Learning Dilemma in AI-Assisted Note-Taking**. *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] J. Song, J. Heyman, M. Vaccaro, A. Cai, A. Almaatouq, T. Malone, **How Human-AI Synergy Changes as AI Technology Advances: A Case of Writing Short Stories**. *Work in Progress*.
- [13] M. Vaccaro, J. Song, A. Almaatouq, M. Bakker, **The Case for Harmful Capability Uplift: Why AI Safety Evaluation Must Focus on Human-AI Systems**. *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	
Bosch Research , Sunnyvale, CA	2024
▪ Research Intern	
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	
▪ Advisor: Prof. Juho Kim	
HCI Lab , Seoul National University	2018
▪ Undergraduate Research Intern	
▪ Project: Briefing the Glanceable Cues of Web Pages for Screen Reader Users	
▪ Advisor: Prof. Jinwook Seo	

TEACHING EXPERIENCE	Graduate Teaching Assistant , MIT Sloan School of Management	2026 (Expected)
	<ul style="list-style-type: none"> Course: 15.S04 - Generative AI Lab: Action Learning Seminar on Generative AI, its Applications, and the Digital Economy 	
	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) Led recitations on large language models. Assisted student teams in applying analytics to solve challenges for partner companies. 	
	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. 	
	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 	
AWARDS & HONORS	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 using restaurants rating and text review data 	
	Samsung Convergence Software Course Scholarship , South Korea	2018
	<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. 	

ACADEMIC SERVICE	Reviewer	
	<ul style="list-style-type: none"> ▪ ACM CSCW ▪ ACM CHI 	2022, 2023, 2025 2023, 2024
MENTORSHIP	▪ Riki Choi , Undergraduate Student at Boston University	2025 – Present
	▪ Thomas Shin , Undergraduate Student at Boston University	2025 – Present
	▪ Arman Vossoughi , Undergraduate Student at Boston University	2024 – Present
	▪ 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	▪ Python : LangGraph, AutoGen, vLLM, pandas, scikit-learn	
	▪ Large language models : Fine-tuning, Retrieval-Augmented Generation	
	▪ Web Development : JavaScript (React, D3, React Native, Express), MongoDB, Ruby on Rails	
	▪ Experiment design & Statistical methods : Clustering, Topic Modeling	