

Jaeyoon Song

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EXPERTISE	Quantitative Data Analysis, Controlled Experimentation, Large Language Models.	
EDUCATION	Massachusetts Institute of Technology , Cambridge, MA <ul style="list-style-type: none">▪ Ph.D., Information Technology▪ Advisor: Prof. Thomas W. Malone▪ GPA: 5.0/5.0	Feb 2021 – May 2026
	Massachusetts Institute of Technology , Cambridge, MA <ul style="list-style-type: none">▪ M.S., Management Research▪ GPA: 5.0/5.0	Feb 2021 – May 2024
	Seoul National University , Seoul, South Korea <ul style="list-style-type: none">▪ B.B.A., Business Administration▪ Minor in Computer Science and Engineering▪ Graduated <i>Summa Cum Laude</i>	Mar 2016 – Feb 2021
SKILLS	<ul style="list-style-type: none">▪ Python, pandas, scikit-learn, SQL, Fine-Tuning, Retrieval-Augmented Generation (RAG)▪ Experiment Design & Statistical Analysis, Clustering, Topic Modeling, A/B Testing▪ Web Development, JavaScript (React, D3, React Native, Express), Figma	
INDUSTRY	Microsoft , New York, NY	2025
EXPERIENCE	<ul style="list-style-type: none">▪ Developed a backtestable evaluation framework for assessing LLM forecasting accuracy while eliminating temporal contamination.▪ Implemented an automated retrieval-augmented generation (RAG) pipeline that synthesized web search data into structured summaries.▪ Advisor: Dr. Dan Goldstein	
	Bosch , Sunnyvale, CA	2024
	<ul style="list-style-type: none">▪ Designed a visual analytics system for interpreting dynamic factors in driving videos.▪ Implemented Meta SAM 2 and LLM-driven inference pipelines on driving video datasets to automatically generate dynamic factor masks.▪ Advisor: Dr. Jiajing Guo	
	Adobe , San Jose, CA	2023
	<ul style="list-style-type: none">▪ Research Engineering Intern	
	BigPearl , Seoul, South Korea	2017
	<ul style="list-style-type: none">▪ Software Engineer	

RESEARCH EXPERIENCE	The Generative AI Divide , Under Revision at CSCW 2026	2025
	▪ Conducted a descriptive analysis of heterogeneous adaptation to generative AI among knowledge contributors using Topic Modeling, Guided LDA, and Difference-in-Differences methods.	
	Togedule , Published at CSCW 2025	2024
	▪ Designed and empirically evaluated Togedule, an LLM-based adaptive scheduling tool that dynamically adjusts choice presentation.	
	Minglr , Published at CHI 2021	2021
	▪ Developed and studied Minglr, a system that supports ad hoc private conversations in virtual conferences, validated through two deployments with 450+ participants.	
OTHER EXPERIENCE	Chrome Extension for Dancers	2022
	▪ Featured on the Chrome Web Store and reached over 2,000 active users organically.	
	A 3D Rotating Cube , https://jaeyoon.io/cube	2017
	▪ Ranked 1st in the Interactive Web Development course during an exchange semester at USC.	
AWARDS & HONORS	Next Jump Innovation Prize , MIT Web Lab Competition	2022
	▪ Built a 3rd place web service among 300+ MIT students; awarded \$3,500	
	▪ Led and managed a two-person team to design and develop an AI-powered note-taking app that generates summaries.	
	Special Recognition for Outstanding Reviews , ACM CHI 2023	2022
	▪ Recognized for outstanding 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	
	International Samsung AI Challenge, Final Round Award , Samsung Research	2018
	▪ Developed a personalized restaurant recommender system using collaborative filtering based on restaurant ratings and review text data	
	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.	

TEACHING EXPERIENCE	Graduate Teaching Assistant , MIT Sloan School of Management ■ Course: 15.S04 - Generative AI Lab: Action Learning Seminar on Generative AI, Its Applications, and the Digital Economy	2026 (Expected)
	Graduate Teaching Assistant , MIT Sloan School of Management ■ 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.	Sep 2025 – Dec 2025
	Guest Lecture , Seoul Institute of the Arts ■ Delivered a virtual seminar as an invited speaker via Zoom. ■ Developed a design thinking workshop centered on conceptualizing a group scheduling tool.	Nov 2023
	Graduate Teaching Assistant , MIT CSAIL ■ 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	Sep 2022 – Dec 2022
DOCTORAL COURSEWORK	 ■ Applied Machine Learning (6.862), MIT ■ Quantitative Methods for Natural Language Processing (6.8610), MIT ■ LLM Agents and Multi-Agent Systems (QST 911), Boston University ■ Advances in Computer Vision (6.869), MIT ■ Quantitative Research Methods (17.800), MIT ■ Interactive Data Visualization (6.C85), MIT ■ Research Seminar in IT and Organizations: Economic Perspectives (15.575), MIT	
PUBLICATIONS	JOURNAL & CONFERENCE PAPERS	
	[1] <u>J. Song</u> , Z. Ashktorab, T. Malone, Togedule: Adaptive Representation of Group Availability Using Large Language Models for Scheduling Meetings , <i>ACM SIGCHI Conference on Computer-Supported Cooperative Work Social Computing (CSCW 2025)</i> .	
	[2] <u>J. Song</u> , 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 , <i>ACM SIGCHI Conference on Computer-Supported Cooperative Work Social Computing (CSCW 2025)</i> .	
	[3] S. Park, <u>J. Song</u> , D. Karger, T. Malone, Who2chat: A Social Networking System for Academic Researchers in Virtual Social Hours Enabling Coordinating, Overcoming Barriers and Social Signaling , <i>ACM SIGCHI Conference on Computer-Supported Cooperative Work Social Computing (CSCW 2024)</i> .	
	[4] <u>J. Song</u> , C. Riedl, T. Malone, Online Mingling: Supporting Ad Hoc, Private Conversations at Virtual Conferences , <i>ACM SIGCHI Conference on Human Factors in Computing Systems (CHI 2021)</i> .	

- [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 (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 (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, (2018): 3001.

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. Under Review at ICLR 2026*.
- [9] J. Song, A. Vossoughi*, H. Zhang*, D. Lee, **The Generative AI Divide: A Descriptive Analysis of Heterogeneous Adaptation Among Knowledge Contributors**. *Under Revision. Under Revision at CSCW 2026*.

WORKING PAPERS

- [10] 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.
- [11] 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*.
- [12] 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

- [13] 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)*.

ACADEMIC SERVICE

Reviewer

- ACM CSCW 2022, 2023, 2025
- ACM CHI 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**, Master's Student at Boston University 2024 – Present
- **Caitlin Ogoe**, Undergraduate Student at MIT 2022 – 2024
- **Alice Cai**, Undergraduate Student at Harvard University 2021 – 2023

	<ul style="list-style-type: none"> ▪ Eve Silfanus, Undergraduate Student at Wellesley College ▪ Michelle Minsol Kim, Undergraduate Student at Wellesley College 	2021 – 2022 2021 – 2022
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 	
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