

Jaeyoon Song

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EXPERTISE	Quantitative Data Analysis, Controlled Experimentation, Large Language Models.		
EDUCATION	Massachusetts Institute of Technology, Cambridge, MA	Feb 2021 – May 2026	
	<ul style="list-style-type: none">▪ Ph.D., Information Technology▪ Advisor: Prof. Thomas W. Malone▪ GPA: 5.0/5.0		
	Massachusetts Institute of Technology, Cambridge, MA	Feb 2021 – May 2024	
	<ul style="list-style-type: none">▪ M.S., Management Research▪ GPA: 5.0/5.0		
	Seoul National University, Seoul, South Korea	Mar 2016 – Feb 2021	
	<ul style="list-style-type: none">▪ B.B.A., Business Administration▪ Minor in Computer Science and Engineering▪ Graduated <i>Summa Cum Laude</i>		
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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Designed and empirically evaluated Togedule, an LLM-based adaptive scheduling tool that dynamically adjusts choice presentation.
	Minglr , Published at CHI 2021 2021
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Featured on the Chrome Web Store and reached over 2,000 active users organically.
	A 3D Rotating Cube , https://jaeyoon.io/cube 2017
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Recognized for outstanding 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 using collaborative filtering based on restaurant ratings and review text 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.

**TEACHING
EXPERIENCE**

- Graduate Teaching Assistant**, MIT Sloan School of Management 2026 (Expected)
- 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
- 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
- Delivered a virtual seminar as an invited speaker via Zoom.
 - Developed a design thinking workshop centered on conceptualizing a group scheduling tool.
- Graduate Teaching Assistant**, MIT CSAIL Sep 2022 – Dec 2022
- 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

**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] 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 (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 (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

- **Eve Silfanus**, Undergraduate Student at Wellesley College 2021 – 2022
- **Michelle Minsol Kim**, Undergraduate Student at Wellesley College 2021 – 2022

**TEACHING
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Graduate Teaching Assistant, MIT Sloan School of Management 2026 (Expected)

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