

# Jaeyoon Song

✉ jaeyoona@mit.edu • 🌐 jaeyoon.io • 🏡 github.com/jyoonsong

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

<b>RESEARCH EXPERIENCE</b>	<b>The Generative AI Divide</b> , 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.	
	<b>Togedule</b> , Published at CSCW 2025	2024
	▪ Designed and empirically evaluated Togedule, an LLM-based adaptive scheduling tool that dynamically adjusts choice presentation.	
	<b>Minglr</b> , 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.	
<b>OTHER EXPERIENCE</b>	<b>Chrome Extension for Dancers</b>	2022
	▪ Featured on the Chrome Web Store and reached over 2,000 active users organically.	
	<b>A 3D Rotating Cube</b> , <a href="https://jaeyoon.io/cube">https://jaeyoon.io/cube</a>	2017
	▪ Ranked 1st in the Interactive Web Development course during an exchange semester at USC.	
<b>AWARDS &amp; HONORS</b>	<b>Next Jump Innovation Prize</b> , 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.	
	<b>Special Recognition for Outstanding Reviews</b> , ACM CHI 2023	2022
	▪ Recognized for outstanding 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
	▪ 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>International Samsung AI Challenge, Final Round Award</b> , Samsung Research	2018
	▪ Developed a personalized restaurant recommender system using collaborative filtering based on restaurant ratings and review text data	
	<b>Samsung Convergence Software Course Scholarship</b> , South Korea	2018
	▪ Earned a scholarship for successfully completing the Samsung Convergence Software Course	
	<b>Merit-based Scholarship</b> , Seoul National University	2016 – 2017
	▪ Received a merit-based scholarship during undergraduate studies.	

<b>TEACHING EXPERIENCE</b>	<b>Graduate Teaching Assistant</b> , 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)
	<b>Graduate Teaching Assistant</b> , 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
	<b>Guest Lecture</b> , 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
	<b>Graduate Teaching Assistant</b> , 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
<b>DOCTORAL COURSEWORK</b>	 ■ 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	
<b>PUBLICATIONS</b>	<b>JOURNAL &amp; CONFERENCE PAPERS</b>	
	[1] <u>J. Song</u> , Z. Ashktorab, T. Malone, <b>Togedule: Adaptive Representation of Group Availability Using Large Language Models for Scheduling Meetings</b> , <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, <b>Interaction Configurations and Prompt Guidance in Conversational AI for Question Answering in Human-AI Teams</b> , <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, <b>Who2chat: A Social Networking System for Academic Researchers in Virtual Social Hours Enabling Coordinating, Overcoming Barriers and Social Signaling</b> , <i>ACM SIGCHI Conference on Computer-Supported Cooperative Work Social Computing (CSCW 2024)</i> .	
	[4] <u>J. Song</u> , C. Riedl, T. Malone, <b>Online Mingling: Supporting Ad Hoc, Private Conversations at Virtual Conferences</b> , <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)*.

#### 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

<b>ACADEMIC SERVICE</b>	<b>Reviewer</b>	
	▪ ACM CSCW	2022, 2023, 2025
	▪ ACM CHI	2023, 2024
<b>TEACHING EXPERIENCE</b>	<b>Graduate Teaching Assistant</b> , 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	
	<b>Graduate Teaching Assistant</b> , 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.	
	<b>Guest Lecture</b> , 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.	
	<b>Graduate Teaching Assistant</b> , 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	