

# Jaeyoon Song

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EXPERTISE	Large Language Models, Human-AI Interaction, Controlled Experimentation.	
EDUCATION	<b>Massachusetts Institute of Technology</b> , Cambridge, MA	Feb 2021 – May 2026
	<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>	
	<b>Massachusetts Institute of Technology</b> , Cambridge, MA	Feb 2021 – May 2024
	<ul style="list-style-type: none"><li>▪ M.S., Management Research</li><li>▪ GPA: 5.0/5.0</li></ul>	
	<b>Seoul National University</b> , Seoul, South Korea	Mar 2016 – Feb 2021
SKILLS	<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>	
INDUSTRY EXPERIENCE	<b>Microsoft</b> , New York, NY	2025
	<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>	

RESEARCH EXPERIENCE	<b>The Generative AI Divide</b> , Under Revision at CSCW 2026 2025
	<ul style="list-style-type: none"> <li>Conducted a descriptive analysis of heterogeneous adaptation to generative AI among knowledge contributors using Topic Modeling, Guided LDA, and Difference-in-Differences methods.</li> </ul>
	<b>Togedule</b> , Published at CSCW 2025 2024
	<ul style="list-style-type: none"> <li>Designed and empirically evaluated Togedule, an LLM-based adaptive scheduling tool that dynamically adjusts choice presentation.</li> </ul>
	<b>Minglr</b> , Published at CHI 2021 2021
	<ul style="list-style-type: none"> <li>Developed and studied Minglr, a system that supports ad hoc private conversations in virtual conferences, validated through two deployments with 450+ participants.</li> </ul>
OTHER EXPERIENCE	<b>Chrome Extension for Dancers</b> 2022
	<ul style="list-style-type: none"> <li>Featured on the Chrome Web Store and reached over 2,000 active users organically.</li> </ul>
	<b>A 3D Rotating Cube</b> , <a href="https://jaeyoon.io/cube">https://jaeyoon.io/cube</a> 2017
	<ul style="list-style-type: none"> <li>Ranked 1st in the Interactive Web Development course during an exchange semester at USC.</li> </ul>
AWARDS & HONORS	<b>Next Jump Innovation Prize</b> , MIT Web Lab Competition 2022
	<ul style="list-style-type: none"> <li>Built a 3rd place web service among 300+ MIT students; awarded \$3,500</li> <li>Led and managed a two-person team to design and develop an AI-powered note-taking app that generates summaries.</li> </ul>
	<b>Special Recognition for Outstanding Reviews</b> , ACM CHI 2023 2022
	<ul style="list-style-type: none"> <li>Recognized for outstanding paper reviews</li> </ul>
	<b>Gary Marsden Travel Award</b> , ACM SIGCHI 2022
	<ul style="list-style-type: none"> <li>Travel grant for attending UIST 2022</li> </ul>
	<b>Graduate School Fellowship</b> , MIT Sloan School of Management 2021 – Present
	<ul style="list-style-type: none"> <li>Received full departmental funding for graduate studies</li> </ul>
	<b>Honorable Mention Award</b> , ACM SIGCHI 2020
	<ul style="list-style-type: none"> <li>Recognized among the top 5% of paper submissions</li> </ul>
	<b>Yangyoung Foundation Scholarship</b> , South Korea 2018 – 2020
	<ul style="list-style-type: none"> <li>Awarded a merit-based scholarship during undergraduate studies</li> </ul>
	<b>International Samsung AI Challenge, Final Round Award</b> , Samsung Research 2018
	<ul style="list-style-type: none"> <li>Developed a personalized restaurant recommender system using collaborative filtering based on restaurant ratings and review text data</li> </ul>
	<b>Samsung Convergence Software Course Scholarship</b> , South Korea 2018
	<ul style="list-style-type: none"> <li>Earned a scholarship for successfully completing the Samsung Convergence Software Course</li> </ul>
	<b>Merit-based Scholarship</b> , Seoul National University 2016 – 2017
	<ul style="list-style-type: none"> <li>Received a merit-based scholarship during undergraduate studies.</li> </ul>

**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)*.

#### MENTORSHIP

▪ <b>Riki Choi</b> , Undergraduate Student at Boston University	2025 – Present
▪ <b>Thomas Shin</b> , Undergraduate Student at Boston University	2025 – Present
▪ <b>Arman Vossoughi</b> , Undergraduate Student at Boston University	2024 – Present
▪ <b>Hongzun Zhang</b> , Master’s Student at Boston University	2024 – Present
▪ <b>Caitlin Ogoe</b> , Undergraduate Student at MIT	2022 – 2024
▪ <b>Alice Cai</b> , Undergraduate Student at Harvard University	2021 – 2023
▪ <b>Eve Silfanus</b> , Undergraduate Student at Wellesley College	2021 – 2022
▪ <b>Michelle Minsol Kim</b> , Undergraduate Student at Wellesley College	2021 – 2022

<b>ACADEMIC SERVICE</b>	<b>Reviewer</b>	
	<ul style="list-style-type: none"> <li>▪ ACM CSCW</li> <li>▪ ACM CHI</li> </ul>	2022, 2023, 2025 2023, 2024
<b>TEACHING EXPERIENCE</b>	<b>Graduate Teaching Assistant</b> , MIT Sloan School of Management	2026 (Expected)
	<ul style="list-style-type: none"> <li>▪ Course: 15.S04 - Generative AI Lab: Action Learning Seminar on Generative AI, Its Applications, and the Digital Economy</li> </ul>	
	<b>Graduate Teaching Assistant</b> , MIT Sloan School of Management	Sep 2025 – Dec 2025
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	<b>Guest Lecture</b> , Seoul Institute of the Arts	Nov 2023
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	<b>Graduate Teaching Assistant</b> , MIT CSAIL	Sep 2022 – Dec 2022
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