

Jeongah Jasmine Lee

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🌐 Personal Website

in LinkedIn

G Google Scholar

Research Interests

Human-Computer Interaction, Artificial Intelligence, Accessibility

Education

MS/Ph.D University of Massachusetts Amherst, Computer Science

- GPA: 4.0/4.0

Amherst, MA, USA

Sep 2024 - Present

B.S Sungkyunkwan University, Computer Science and Engineering

- GPA: 3.71/4.0 (converted)

Suwon, Korea

Mar 2019 - Feb 2024

The University of Texas at Austin, Electrical and Computer Engineering

- Exchange student program

Austin, TX, USA

Jan 2022 - May 2022

Publications

From Pixels to Primitives: Evaluating SVG Decomposition for Floor Plan Comprehension in Large Multimodal Models

- Jeongah Lee**, Ali Sarvghad
- Under Review

From Text to Visuals: Using LLMs to Generate Math Diagrams with Vector Graphics [↗](#)

- Jaewook Lee, **Jeongah Lee**, Wanyong Feng, Andrew Lan
- AIED 2025: 26th International Conference on Artificial Intelligence in Education (Acceptance rate: 19%)

IoT Edge-Cloud: An Internet-of-Things Edge-Empowered Cloud System for Device Management in Smart Spaces [↗](#)

- Yoseop Joseph Ahn, Minje Kim, **Jeongah Lee**, Yiwen Shen, Jaehoon Paul Jeong
- 2023 IEEE Network Magazine

Research Experiences

HCI-VIS lab @ University of Massachusetts Amherst, Graduate Research Assistant

- Advisor: Dr. Ali Sarvghad [↗](#)

Amherst, MA, USA

Sep 2024 - Present

IoT lab @ Sungkyunkwan University, Undergraduate Student Researcher

- Advisor: Dr. Jaehoon Paul Jeong [↗](#)

Suwon, Korea

Jul 2021 - Nov 2021

Work Experiences

Seoul National University Bundang Hospital, Natural Language Processing (NLP) Researcher

- Developed a model that predicts lung cancer TNM stage using an Electronic Health Record dataset
- Finetuned Large Language Models (LLMs) in resource-restricted settings, optimizing model performance through tailored prompt engineering techniques

Bundang, Korea

Mar 2024 - Jul 2024

Cipherome, Inc, Machine Learning (ML) Engineer, Intern

- Developed the pipeline for an ML module within a clinician-focused medical data analysis platform
- Designed Figma wireframes to improve user experience and UI/UX

San Jose, CA, USA

Mar 2023 - Aug 2023

Naver Boostcamp AI Tech Program, NLP Engineer

- Led projects on Semantic Text Similarity, Relation Extraction, Open-Domain Question Answering, and Chatbot Development tasks

Remote

Sep 2022 - Feb 2023

SK Planet Co.,Ltd., Industry-Academic Cooperation Student Researcher

- Developed an AR rhythm game application for the Busan One Asia Festival using AR Core to provide location-based interactive experiences

Suwon, Korea

Mar 2020 - Dec 2020

Awards & Honors

[Awards]

- 3rd Place (Grand Prize), Chung-ang University AI and Humanities Academic Paper contest Jan 2023
- 1st Place (Grand Prize), Kookmin University self-driving contest Jul 2021 - Nov 2021
- 3rd Place (Grand Prize), Sungkyunkwan University AI x Bookathon contest Jan 2021
- Volunteering Excellence Prize, NIA(National Information Society Agency) Dec 2020

[Scholarships]

- Academic Excellence Scholarship (top 12%) 2022
- Creative Scholarship (100% tuition support) 2021
- Sungkyun Software Scholarship (100% tuition support) 2019
- MegastudyEdu Scholarship (external) 2019

Teaching & Mentoring

[Teaching]

Graduate Teaching Assistant

Sep 2024 - Present

- *CICS 110: Introduction to Programming (Fall 2024)*
Led two lab sessions (60 students each) with hands-on instruction and grading support
- *CS 383: Artificial Intelligence (Spring 2025)*
Held office hours for a class of 180 students and mentored 15 group projects

[Mentoring]

Independent Study Mentor

Feb 2025 - Present

- Aishwarya Vishnubhotla, Srikanth Kavuri (CS Undergraduate at UMass), Prachetas Padhi (ECE Master at UMass)

Undergraduate Research Program Volunteers

May 2025 - Present

- Gerindra Adi, Vidhaan Kothari, Nish Methuku (CS Undergraduate at UMass)

Volunteering/Leadership

Panama World Friends Korea ICT e-volunteer

Nov 2020 - Dec 2020

Mobile Application Programming Mentoring at Youngbok Girls' High School

Sep 2019 - Dec 2019

College of Computing Student Council

Mar 2019 - Dec 2019

Skills

Languages: Korean (native fluency), English (full professional proficiency)

Computer/Programming: Python, Pytorch, R, JavaScript, React.Js, HTML, CSS, C, C++, Java, Kotlin