

# Jeongah Lee

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🌐 Personal Website

in LinkedIn

G Google Scholar

## Research Interests

Human-Computer Interaction, Accessibility, AI-powered Visualization Tools

## 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

**[C.1] From Text to Visuals: Using LLMs to Generate Math Diagrams with Vector Graphics** [🔗](#)

2025

- Jaewook Lee, **Jeongah Lee**, Wanyong Feng, Andrew Lan
- 26th International Conference on Artificial Intelligence in Education

**[J.1] IoT Edge-Cloud: An Internet-of-Things Edge-Empowered Cloud System for Device Management in Smart Spaces** [🔗](#) 2023

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

## 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
- Developed an indoor location recognition app using Wi-Fi fingerprinting to provide customized advertisements and benefits based on the customer's real-time location

**Suwon, Korea**

Mar 2020 - Dec 2020

## Awards & Honors

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### [Awards]

- 3<sup>rd</sup> Place (Grand Prize), Chung-ang University AI and Humanities Academic Paper contest Jan 2023
- 1<sup>st</sup> Place (Grand Prize), Kookmin University self-driving contest Jul 2021 - Nov 2021
- 3<sup>rd</sup> 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

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### [Teaching]

**Graduate Teaching Assistant @ University of Massachusetts Amherst** 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]

**Aishwarya Vishnubhotla** Feb 2025 - Present

- CS Undergraduate at Umass

**Prachetas Padhi** Mar 2025 - Present

- ECE Master at Umass

## Volunteering/Leadership

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**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 Public Relations Team** Mar 2019 - Dec 2019

## Skills

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

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