

Jeongah Lee

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Research Interests

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

Education

MS/Ph.D	University of Massachusetts Amherst , Computer Science <ul style="list-style-type: none">GPA: 4.0/4.0	Amherst, MA, USA Sep 2024 - Present
B.S	Sungkyunkwan University , Computer Science and Engineering <ul style="list-style-type: none">GPA: 3.71/4.0 (converted)	Suwon, Korea Mar 2019 - Feb 2024
	The University of Texas at Austin , Electrical and Computer Engineering <ul style="list-style-type: none">Exchange student program	Austin, TX, USA Jan 2022 - May 2022

Publications

[A1] From Text to Visuals: Using LLMs to Generate Math Diagrams with Vector Graphics	2025
<ul style="list-style-type: none">Jaewook Lee, Jeongah Lee, Wanyong Feng, Andrew LanUnder Review	
[J1] IoT Edge-Cloud: An Internet-of-Things Edge-Empowered Cloud System for Device Management in Smart Spaces	2023
<ul style="list-style-type: none">Yoseop Joseph Ahn, Minje Kim, Jeongah Lee, Yiwen Shen, Jaehoon Paul JeongIEEE Network	

Research Experiences

HCI-VIS lab @ University of Massachusetts Amherst , Graduate Research Assistant <ul style="list-style-type: none">Advisor: Dr. Ali Sarvghad 	Amherst, MA, USA Sep 2024 - Present
IoT lab @ Sungkyunkwan University , Undergraduate Student Researcher <ul style="list-style-type: none">Advisor: Dr. Jaehoon Paul Jeong 	Suwon, Korea Jul 2021 - Nov 2021

Work Experiences

University of Massachusetts Amherst , Graduate Teaching Assistant <ul style="list-style-type: none">(Fall 2024) CICS 110 Introduction to Programming: Led two lab sessions, each supporting over 60 students by providing hands-on coding instruction and grading(Spring 2025) CS 383 Artificial Intelligence: Conducted office hours for 180 students and mentored group projects	Amherst, MA, USA Sep 2024 - Present
Seoul National University Bundang Hospital , Natural Language Processing (NLP) Researcher <ul style="list-style-type: none">Developed a model that predicts lung cancer TNM stage using an Electronic Health Record datasetFinetuned 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 <ul style="list-style-type: none">Developed the pipeline for an ML module within a clinician-focused medical data analysis platformDesigned Figma wireframes to improve user experience and UI/UX	San Jose, CA, USA Mar 2023 - Aug 2023
Naver Boostcamp AI Tech Program , NLP Engineer <ul style="list-style-type: none">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	Suwon, Korea Mar 2020 - Dec 2020

- 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

Awards and 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

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 Public Relations Team	Mar 2019 - Dec 2019

Mentorship

Aishwarya Vishnubhotla	Feb 2025 - Present
• CS Undergraduate at Umass	
Prachetas Padhi	Mar 2025 - Present
• ECE Master at Umass	

Skills

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

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