

Jeongah Lee

✉ jeongahlee@umass.edu

🌐 <https://jeongah-jasmine-lee.github.io/>

in Jeongah Jasmine Lee

Research Interests

Human-Computer Interaction, Artificial Intelligence, Accessibility, Data Visualization

Education

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

- Advisor: Dr. Ali Sarvghad (HCI-VIS lab)

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

Publication

IoT Edge-Cloud: An Internet-of-Things Edge-Empowered Cloud System for Device Management in Smart Spaces

June, 2023

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

- Developed a cloud-based IoT system for the visual control and management of smart devices through a smartphone application, enhancing user interaction and device control

Work Experiences

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

Mar 2024 - Jul 2024

- 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

Cipherome, Inc, Machine Learning (ML) Engineer, Intern**San Jose, CA, USA**

Mar 2023 - Aug 2023

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

SK Planet Co.,Ltd., Industry-Academic Cooperation Researcher**Suwon, Korea**

Mar 2020 - Dec 2020

- Created an outdoor location-based AR rhythm game application for Busan One Asia Festival using AR Core
- Developed an indoor location recognition app using Wi-Fi fingerprinting to provide customized advertisements and benefits based on the customer's real-time location

Research Experiences

HCI-VIS lab @ University of Massachusetts Amherst, Student Researcher**Remote**

Nov 2023 - Aug 2024

- Conducted research on enhancing accessibility of visual data for blind and low-vision individuals

Boostcamp AI Tech Program NLP track**Remote**

Sep 2022 - Feb 2023

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

IoT lab @ Sungkyunkwan University, Undergraduate Student Researcher**Suwon, Korea**

Jul 2021 - Nov 2021

- Advisor: Dr. Jaehoon Paul Jeong

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

Teaching/Mentoring

Teaching Assistant	Sep 2024 - Present
<ul style="list-style-type: none">• CICS 110 Introduction to programming, Instructor: Dr. Ghazaleh Parvini• Led two lab sessions each week for over 60 students and managed grading	

Skills

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

Computer/Programming: Python, Pytorch, JavaScript, HTML/CSS, C, C++