Jeongah Lee

✉ jeongahlee@umass.edu   🔗 https://jeongah-jasmine-lee.github.io/   **in** Jeongah Jasmine Lee

Research Interests

Human-Computer Interaction, Accessibility, Data Visualization

Education

Ph.D	**University of Massachusetts Amherst**, Computer Science	***Amherst, MA, USA*** Sep 2024 - Present
	• Advisor: Dr. Ali Sarvghad (HCI-VIS lab)	
B.S	**Sungkyunkwan University**, Computer Science and Engineering	***Suwon, Korea*** Mar 2019 - Feb 2024
	• GPA: 3.71/4.0 (converted)	
	The University of Texas at Austin, Electrical and Computer Engineering	***Austin, TX, USA*** Jan 2022 - May 2022
	• Exchange student program	

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, Machine Learning Researcher, Contract — ***Bundang, Korea***, Mar 2024 - Jul 2024

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

Cipherome, Inc, Machine Learning Engineer, Intern — ***San Jose, CA, USA***, Mar 2023 - Aug 2023

- Developed the pipeline for machine learning 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 (Human Computer Interaction-Visualization) 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 (Natural Language Processing) track — ***Remote***, Sep 2022 – Feb 2023

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

IoT (Internet of Things) 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

- CICS 110 Introduction to programming, Instructor: Dr. Ghazaleh Parvini

Skills

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

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