Jeongah Lee

jeongahlee@umass.edu https://jjeongah.github.io/ **in** Jeongah Jasmine Lee

Education

Ph.D **University of Massachusetts Amherst**, Computer Science — ***Amherst, MA, USA*** — Sep 2024 - Present
- Supervised by prof. Ali Sarvghad (HCI-VIS lab)

B.S **Sungkyunkwan University**, Computer Science and Engineering — ***Suwon, Korea*** — Mar 2019 - Feb 2024
- GPA: 3.71/4.0

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

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

IEEE Network

Work Experiences

Seoul National University Bundang Hospital, Machine Learning Researcher, Contract — ***Bundang, Korea*** — Mar 2024 - Jul 2024 — 5 months
- Developed a model that predicts lung cancer TNM stage using an Electronic Health Record (EHR) dataset using Python
- Finetuned Large Language Models (LLMs) in resource-restricted settings, optimizing performance while employing prompt engineering techniques

Cipherome, Inc, Machine Learning Engineer, Intern — ***San Jose, CA, USA*** — Mar 2023 - Aug 2023 — 6 months
- Developed the pipeline for machine learning module within a clinician-focused medical data analysis platform using Python
- Investigated patient clustering methods utilizing Common Data Model (CDM) data
- Designed wireframes that embody comprehensive UI/UX enhancements to elevate the overall user experience using Figma

SK Planet Co.,Ltd., Industry-Academic Cooperation Researcher — ***Suwon, Korea*** — Mar 2020 - Dec 2020 — 10 months
- 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 - Present

Boostcamp AI Tech NLP (Natural Language Processing) track — ***Remote*** — Sep 2022 – Feb 2023 — 6 months
- Hosted by Naver Connect Foundation
- 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 — 5 months
- Supervised by prof. Jaehoon Paul Jeong
- Developed an application using JAVA and Android Studio that visualizes smart devices through a cloud system, aiming to enhance the usability of an IoT device management app
- Improved location tracking accuracy by 39% through the integration of Smart Pedestrian Dead-Reckoning and Particle Filter-Indoor Positioning algorithm

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

Proficiency in skills

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

Computer/Programming: Advanced: Python, Pytorch, Huggingface, C, C++, Java, Android Studio, Git/Github, Figma, WandB

Volunteering and Leadership

Panama World Friends Korea ICT e-volunteer — Nov 2020 - Dec 2020, 2 months

- Delivered real-time streaming classes on Microsoft Office tools to over 90 Panama government employees

Mobile Application Programming Mentoring at Youngbok Girls' High School — Sep 2019 - Dec 2019, 4 months

- Mentored a group of 10 high school students on mobile application development using App Inventor

Sungkyunkwan University Autonomous Driving Club SCAR — 2021, 1 year

- Participated a study group focusing on deep learning and autonomous vehicles through Coursera courses
- Using the Robot Operating System (ROS), wrote lidar ultrasound, image processing, and parking Python code to drive a set track

College of Computing Student Council Public Relations Team — Mar 2019 - Dec 2019, 10 months

- Designed posters for public notice every week as a member of public relations team