

Jeongah Lee

✉ jeongahlee@umass.edu 🔗 <https://jjeongah.github.io/> in Jeongah Jasmine Lee

Education

Ph.D	University of Massachusetts Amherst , Computer Science <ul style="list-style-type: none"> Supervised by prof. Ali Sarvghad (HCI-VIS lab) 	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 	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

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
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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: 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