

Heekyung Lee

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EDUCATION

Pohang University of Science and Technology (POSTECH)

B.S. in Computer Science Engineering

South Korea

Feb 2022 – Expected Feb 2026

UNIVERSITY OF CALIFORNIA, BERKELEY

Concurrent Enrollment Exchange Program

Berkeley, CA

July 2024 – May 2025

Coursework: **cs162**: operating systems and systems programming, **cs194/294**: special topics: Large Language Model Agents, **cs184**: Foundations of Computer Graphics, **cs198**: Full stack programming, **cs199**: Supervised Independent Study (Prof. Trevor Darrell), **German 1**: Elementary German I

UNIVERSITY OF CAMBRIDGE

2023 International Summer Programme

Cambridge, UK

Jun 2023–Aug 2023

Coursework: English Writing, Practical Finance, Cell biology and Precision of Medicine

KOREAN MINJOK LEADERSHIP ACADEMY

High School Diploma

South Korea

Feb 2019 – Feb 2022

EXPERIENCE

Undergraduate Research Intern

BAIR, Berkeley Artificial Intelligence Research

Berkeley, CA

Dec 2024 – Present

- Publications: Tsung-Han Wu, Heekyung Lee, Jiaxin Ge, JosephE. Gonzalez, Trevor Darrell, David M. Chan: “Generate but Verify: Reducing Hallucination in Vision-Language Models with Retrospective Resampling”.
- Advisors: Profs. Trevor Darrell, David M. Chan

Undergraduate Research Intern

POSTECH Visual Computing Lab. Baek's Group

South Korea

Feb 2024 – Jun 2024

- Collaborated in pBRDF visualization research project, building a program, visualizing Mueller Elements
- Conducted weekly sessions within team members, contributed to the analysis and interpretation of visualization results
- Advisors: Profs. Seung Hwan Baek

PROJECTS

SPARK: Spatial Perception And Reasoning benchmark

LLM Agents MOOC Hackathon

Berkeley, CA

2024 Fall

- Winner of LLM Agents MOOC Hackathon in Benchmark track, hosted by UC Berkeley RDI. (Prof. Dawn Song)
- SPARK: A Scavenger Hunt Game for LLM Agents. Developed a new, more applicable real-world benchmark for large language model agents: a multi-agent scavenger hunt set in the in Berkeley Campus.

Day Genie: Automated, personalized scheduling recommendation application

Cal Hacks 11

Sanfransisco, CA

Oct 2024

- Winner of Cal Hacks11. Received an honorable mention in Fetch ai sponsor track. (Ranked 5th place)
- Constructed a decentralized multi-agent large language model application that simplifies the process of planning trips via automatically generating recommendations based on preferences and user schedule. (Full stack development)

Motion Similarity

AR/VR Fabrication Studio (CITE 490K)

Feb 2023 – Jun 2023

- Conducted a research project with 1 Million-Dance Studio to develop practical solutions for dance choreography copyright issues
- Built a usable program to measure dance similarity between the two videos using MediaPipe Pose detection and DTW.

LG Aimers HAKATHON 4th

Jan 2024 – May 2024

- Collaborated within a team of 6, Building a Predictive Model for Generating B2B Sales Opportunities Based on MQL Data
- Processed and optimized diverse customer data types including binary, text, and numerical data using linear regression techniques. Successfully ranked in top 105 teams out of more than 1000 competitors

ACTIVITIES

POSTECH APGC-Lab Manager

Feb 2022- Feb 2022

- Organized entrepreneurship events held in campus and contributed to the promotion and support of student-led startups through various initiative programs at POSTECH.

SKILLS & SCHOLARSHIP

- Native Korean Speaker, Fluent in English, Level A2 German Learner
- POSTECH Jigok Scholarship Recipient (Full tuition), POSTECH Alumni Scholarship Recipient