

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 Aug 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, **cs184/284**: 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

- Publication: 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”.
- Publication: Heekyung Lee, Jiaxin Ge, Tsung-Han Wu, Minwoo Kang, Trevor Darrell, David M. Chan: “Puzzled by Puzzles: When Vision-Language Models Can’t Take a Hint”.
- 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
- 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)

The Cheese Touch! A Temperature-dependent rendering of Cheese-Simulation

Final Project, CS 184/284: Foundations of Computer Graphics, UC Berkeley

Berkeley, CA

2025 Fall

- Designed and implemented a physics-based particle system to simulate temperature-driven deformation and melting of cheese.
- Reconstructed surfaces using marching cubes, applied texture mapping, and rendered surface details using surfels for realistic visual output.

Motion Similarity

AR/VR Fabrication Studio (CITE 490K)

South Korea

2023 Spring

- 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.

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