Heekyung Lee

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EDUCATION

Pohang University of Science and Technology (POSTECH)   **South Korea**
B.S. in Computer Science Engineering   *Feb 2022 – Expected Aug 2026*

UNIVERSITY OF CALIFORNIA, BERKELEY   **Berkeley, CA**
Concurrent Enrollment Exchange Program   *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 1

UNIVERSITY OF CAMBRIDGE   **Cambridge, UK**
2023 International Summer Programme   *Jun 2023–Aug 2023*
Coursework: English Writing, Practical Finance, Cell biology and Precision of Medicine

KOREAN MINJOK LEADERSHIP ACADEMY   **South Korea**
High School Diploma   *Feb 2019 – Feb 2022*

EXPERIENCE

Undergraduate Research Intern   **Berkeley, CA**
BAIR, Berkeley Artificial Intelligence Research   *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   **South Korea**
POSTECH Visual Computing Lab. Baek's Group   *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   **Berkeley, CA**
LLM Agents MOOC Hackathon   *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   **Sanfranisco, CA**
Cal Hacks 11   *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   **Berkeley, CA**
Final Project, CS 184/284: Foundations of Computer Graphics, UC Berkeley   *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   **South Korea**
AR/VR Fabrication Studio (CITE 490K)   *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