

HONGBEEN PARK

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EDUCATION

Master of Computer Science and Engineering

Korea University

Sep. 2023 – Current

Seoul, South Korea

Bachelor of Computer Science and Engineering

Korea University

Mar. 2019 – Feb 2023

Seoul, South Korea

High School Diploma

Seoul Science High School

Mar. 2016 – Feb 2019

Seoul, South Korea

WORK EXPERIENCE

Data Operations Intern

Naver Cloud Corp.

January 2024 – April 2024

Gyeonggi-do, South Korea

- Created datasets for Table-VQA and non-image QA tasks.
- Explored preprocessing techniques and designed prompt formulations for dataset development.

Vision & AI Lab Intern

Korea University

April 2023 – August 2023

Seoul, South Korea

- Conducted research on 3D object detection for autonomous driving using temporal modeling.
- Aligned BEV (Bird's Eye View) perspectives and trajectory prediction models with map integration.

Visual Intelligence Group Intern

Korea Institute of Science and Technology (KIST)

September 2022 – December 2022

Seoul, South Korea

- Developed multi-view human detection and re-identification algorithms.
- Designed and implemented a camera calibration pipeline for enhanced identification accuracy.

Mentee

SW Maestro Program

April 2021 – December 2021

Seoul, South Korea

- Built smoking detection AI using TensorRT on Jetson Nano.
- Led the development of a hate speech filtering model deployed on YouTube.

Programming Challenge Management

Korea University Programming Challenge (KCPC)

November 2019 – November 2020

Seoul, South Korea

- Organized and prepared programming challenges for the 2019 KCPC contest.
- Managed server operations and participant coordination.

Algorithm Solving Club Instructor

Korea University

September 2019 – December 2020

Seoul, South Korea

- Taught an advanced algorithm course and created detailed solutions to problem sets.

PUBLICATIONS

Peer-Reviewed Papers

- **Hongbeen Park**, Minjeong Park, Giljoo Nam, Jinkyu Kim, "LRSLAM: Low-rank Representation of Signed Distance Fields in Dense Visual SLAM System", European Conference on Computer Vision (ECCV) 2024
- Seokha Moon, Hyun Woo, **Hongbeen Park**, Haeji Jung, Reza Mahjourian, Hyung-gun Chi, Hyerin Lim, Sangpil Kim, Jinkyu Kim, "VisionTrap: Vision-Augmented Trajectory Prediction Guided by Textual Descriptions", European Conference on Computer Vision (ECCV) 2024

- NAVER Cloud Team, "HyperCLOVA X Technical Report", Arxiv 2024
- Seokha Moon, **Hongbeen Park**, Jaekoo Lee, Jinkyu Kim, "Learning Temporal Cues by Predicting Objects Move for Multi-Camera 3D Object Detection", International Conference on Robotics and Automation (ICRA) 2024

Preprints

- E. Kim, D. Shanker, V. Bharadhwaj, **Hongbeen Park**, Jinkyu Kim, H. Torfah, D. Fremont, S. Seshia, "Querying Labelled Time Series Data with Scenario Programs", *submitted to NASA Formal Methods Conference*.

LEADERSHIP EXPERIENCE AND ACTIVITIES

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| Development and AI Club (KOSMOS) President Korea University College of Information | March 2020 - August 2022 |
| Student Council President Korea University College of Information | May 2019 - June 2022 |
| Algorithm Summer Contest Management Korea University Algorithm Problem Solving Club | April 2017 |

HONORS AND AWARDS

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| (2nd place) 2021 Korea University Programing Challenge (KCPC) | November 2021 |
| (3rd place) 2021 SW Maestro Hackathon | May 2021 |
| (2nd place) 2020 Intercollegiate Competition Algorithm Camp Contest | August 2020 |
| (full-tuition) WORK-STUDY SCHOLARSHIPS | March 2019 - June 2020 |
| (2nd place) Korea Olympiad in Informatics (KOI) | June 2017 |
| (3rd place) Korea Olympiad in Informatics (KOI) | June 2016 |

TEACHING EXPERIENCE

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|---|--|
| Teaching Assistant, Algorithm Korea University | September 2024 - December 2024 Seoul, Korea |
| Teaching Assistant, Data Science Korea University | March 2024 - June 2024 Seoul, Korea |

SKILLS

Languages: English (Intermediate), Korean (Native)
Programming: Python, C/C++, Java, Shell script
Document Creation: LaTeX, Markdown