

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

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 2020
Algorithm Summer Contest Management Korea University Algorithm Problem Solving Club	March 2019 - December 2019

HONORS AND AWARDS

(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

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