

# HOJUN (ERIC) CHOI

6th floor, 108, Taebong-ro, Seocho-gu, Seoul, Republic of Korea  
+82 10-7185-1250 ◊ [hchoi256@kaist.ac.kr](mailto:hchoi256@kaist.ac.kr) ◊ [Personal Website](#) ◊ [Google Scholar](#)

## RESEARCH INTEREST

---

I am a first-year Ph.D. student at KAIST AI, advised by Prof. Hyunjung (Kate) Shim. Before joining KAIST, I conducted research with Prof. Ran at the CAVH Research Group at University of Wisconsin–Madison and with Prof. U Kang at the Data Mining Lab at Seoul National University. I later worked with Prof. Insik Shin in the Agentic AI Group at FLUIZ and Dr. Jinhan Lee in the Autonomous Driving Group at NAVER LABS. My research interests include **Multimodal Learning**, **Vision-Language Models**, and **Agentic AI**.

## EDUCATION

---

<b>Kim Jaechul Graduate School of Artificial Intelligence, KAIST</b> PhD in Artificial Intelligence	Jan. 2026 – Present
<b>Kim Jaechul Graduate School of Artificial Intelligence, KAIST</b> Master of Science (MS) in Artificial Intelligence	Jan. 2024 – Dec. 2025
<b>University of Wisconsin-Madison</b> Bachelor of Science (BS) in Computer Science and Data Science	Jan. 2017 – Dec. 2022 GPA: 3.9/4.0

## RESEARCH PUBLICATION

---

- Hojun Choi**, Seulbin Hwang, Dae Jung Kim, Kisung Kim, Hyunjung Shim, and Jinhan Lee, “*Open-Vocabulary BEV Segmentation with 3D-Aware Geometric Constraints*”  
[European Conference on Computer Vision \(ECCV\)](#), 2026
- Hojun Choi**, Youngsun Lim, Jaeyo Shin, and Hyunjung Shim, “*CoT-PL: Chain-of-Thought Pseudo-Labeling for Open-Vocabulary Object Detection*”  
[2nd Workshop on Multimodal Spatial Intelligence @ CVPR \(CVPRW\)](#), 2026  
[European Conference on Computer Vision \(ECCV\)](#), 2026
- Wonjeong Ryu, Seungjun Yu, Seokha Moon, **Hojun Choi**, Junsung Park, Jinkyu Kim, and Hyunjung Shim, “*SUPER-AD: Semantic Uncertainty-aware Planning for End-to-End Robust Autonomous Driving*”  
arXiv, 2025
- Youngsun Lim\*, **Hojun Choi**\*, and Hyunjung Shim, “*Evaluating Image Hallucination in Text-to-Image Generation with Question-Answering*” (\*Equal contribution)  
[\[Oral Presentation\] AAAI Conference on Artificial Intelligence \(AAAI\)](#), 2025
- Hojun Choi**, Junsuk Choe, and Hyunjung Shim, “*Sampling Bag of Views for Open-Vocabulary Object Detection*”  
arXiv, 2024
- Sunjae Lee, Junyoung Choi, Jungjae Lee, Munim Hasan Wasi, **Hojun Choi**, Steven Y. Ko, Sangeun Oh, and Insik Shin, “*MobileGPT: Augmenting LLM with Human-like App Memory for Mobile Task Automation*”  
[ACM International Conference on Mobile Computing and Networking \(MobiCom\)](#), 2024
- Seungcheol Park, **Hojun Choi**, and U Kang, “*Accurate Retraining-free Pruning for Pre-trained Encoder-based Language Models*”  
[International Conference on Learning Representations \(ICLR\)](#), 2024

## PROFESSIONAL SERVICES

---

- **Conference Reviewer:** CVPR [2026, 2024], ECCV 2026, ICLR 2026, AAAI 2026, NeurIPS 2025
- **Journal Reviewer:** IEEE TPAMI, 2025
- **Research Assistant:** KT–AI Convergence Education Program.

- **Teaching Assistant:** Introduction to Human Computer Interactions (CS570). Fall 2022
- **Teaching Assistant:** Introduction to Artificial Intelligence (CS540). Fall 2022
- **Teaching Assistant:** Elementary Matrix and Linear Algebra (CS340). Spring 2022
- **Teaching Assistant:** Introduction to Computer Systems (CS354). Spring 2022
- **Teaching Assistant:** Programming III (CS400). Spring 2022
- **Teaching Assistant:** Elementary Matrix and Linear Algebra (CS340). Fall 2021
- **Teaching Assistant:** Introduction to Computer Engineering (CS252). Fall 2021

## ACADEMIC EXPERIENCE

---

**Research Intern** May 2025 – Nov. 2025  
*NAVER LABS Corp.* Seongnam, South Korea

- Conducted research with Dr. Jinhan Lee on end-to-end planning for autonomous driving.
- Developed VLM-based approaches for open-world perception and explored 3D Gaussian Splatting for efficient real-time processing.
- Independently implemented models, designed experiments, and conducted evaluations for the projects.
- Authored a first-author paper accepted to [ECCV 2026](#).

**Research Intern** Sep. 2023 – Feb. 2024  
*FLUIZ* South Korea

- Conducted research under Prof. Insik Shin in the Agentic AI Group of the CPS Lab at KAIST.
- Developed memory-augmented LLM agents for mobile task automation using structured app memory.
- Co-authored a paper published at [ACM MobiCom 2024](#).

**Research Intern** Jan. 2023 – Jul. 2023  
*Seoul National University* South Korea

- Conducted research with Prof. U Kang in the Model Compression Group of the Data Mining Lab.
- Developed an offline, retraining-free pruning method for pretrained encoder-based language models.
- Co-authored a paper published at [ICLR 2024](#).

**Undergraduate Research Intern** Sep. 2022 – Dec. 2022  
*CAVH Research Group* Wisconsin, USA

- Conducted research with Prof. Ran on end-to-end driving perception using a DETR-style architecture.
- Built a custom CARLA environment modeling a university campus to evaluate delivery-robot driving models.

## SKILLS

---

- **Languages:** Korean, English
- **Programming:** Python, C/C++/Csharp, L<sup>A</sup>T<sub>E</sub>X, MATLAB, Mathematica, JavaScript
- **Machine Learning:** PyTorch, TensorFlow, scikit-learn
- **Tools:** SQL, Shell, Git, Slurm
- **Other:** SPSS, Linux (openSUSE, Ubuntu), Mac OS, Windows OS

## AWARDS

---

- **Best Poster Award**, Image Processing and Image Understanding (IPIU), 2026
- **Oral Presentation**, Image Processing and Image Understanding (IPIU), 2025
- **Top 10%**, Autonomous Sensor Antenna Prediction Competition, LG Research AI, 2022
- **Honorable Mention**, UPL Hatathon, 2022
- **Dean's List Recipient**, University of Wisconsin-Madison, Every Semester Attended

## MISCELLANEOUS

---

- I love playing soccer and basketball, and I also love hiking in my spare time.
- I also enjoy online RPGs, as they spark my imagination and motivate me to create.