

# Hyunjin Kim

EMAIL: [hjhyunjinkim@yonsei.ac.kr](mailto:hjhyunjinkim@yonsei.ac.kr)  
WEBSITE: <https://hjhyunjinkim.github.io>

## RESEARCH INTERESTS

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3D Scene Reconstruction, 3D Scene Understanding, 3D Computer Vision, Robotics

## EDUCATION

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**University of California San Diego** La Jolla, CA, USA  
M.S. in Computer Science and Engineering SEP. 2024 - June 2026 (EXPECTED)

**Yonsei University** Seoul, Republic of Korea  
B.S. in Urban Planning and Engineering, Computer Science and Engineering MAR. 2020 - AUG. 2024

- GPA: 4.09/4.3 (98.4%)
- Rank: 2/73

**University of Toronto** Toronto, Canada  
Exchange Student, Trinity College, Computer Science SEP. 2022 - APR. 2023

- GPA: 3.90/4.0


## RESEARCH EXPERIENCE

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**Visual & Geometric Intelligence (VGI) Lab**, Seoul National University Seoul, Republic of Korea  
Research Intern (Advisor : **Prof. Jaesik Park**) DEC. 2023 - PRESENT

- Leading project on developing a **Generalized Codebook for 3D Scene Reconstruction**, focusing on 3D Gaussian Splatting and Neural Radiance Fields

**KAIST Visual AI Group**, KAIST School of Computing Daejeon, Republic of Korea  
Research Intern (Advisor : **Prof. Minhyuk Sung**) JUNE 2023 - AUG. 2023

- Ideated and led project on **Diffusion-Based Image Editing with Text and Mask Guidance for NeRF editing**
- Proposed and developed a method integrating a Segmentation and Diffusion Inpainting model for precise editing
- Implemented PointNet, NeRF, Diffusion models for preparation on research on 3D Machine Learning. 

**Robot Vision and Learning (RVL) Lab**, University of Toronto Toronto, Canada  
Research Student (Advisors : **Prof. Florian Shkurti**, **Prof. Animesh Garg**) JAN. 2023 - MAY 2023

- Participated in a project on interactive robot learning environments, specifically **Chemistry Robotics Lab Simulation**
- Developed the initial chemistry robotic lab simulation environment with the custom 8-DOF robot arm and worked on simulating the pick and place, pouring task

**Medical Imaging and Computer Vision (MICV) Lab**, Yonsei University Seoul, Republic of Korea  
Research Intern (Advisor : **Prof. SeongJae Hwang**) MAY 2022 - AUG. 2022

- Participated in research on **Transformers in Medical Imaging**, specifically on the task of Scan Time Reduction

## INDUSTRY EXPERIENCE

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**Linq** Cambridge, MA, USA (REMOTE)  
Research Intern (Advisor : **Prof. Jy-yong Sohn**) SEP. 2023 - FEB. 2024

- Co-led the **Strategic Reduction of LLMs' Semantic Errors in Chain-of-Thought** project
- Proposed and developed a novel method for the effective reduction of semantic errors in Chain-of-Thought prompting for Large Language Models (LLMs).

**RebuilderAI**  
Industry Collaboration External Researcher

Seongnam, Republic of Korea  
JULY 2023 - SEP. 2023

- Participated in the **2D Image and 3D Model Embedding Search** R&D project
- Developed a custom 3D model embedding network based on Point Clouds for Contrastive Learning

**Alchera Inc.**  
Industry Collaboration External Researcher

Seongnam, Republic of Korea  
JULY 2022 - SEP. 2022

- Participated in the **Blur Face Detection** R&D project
- Developed a Clean-Blur Face Image Dataset based on the FFHQ dataset and an algorithm for iterative adversarial blur attack

## PUBLICATIONS

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1. **Can Separators Improve Chain-of-Thought Prompting?**  
Yoonjeong Park\*, **Hyunjin Kim\***, Chanyeol Choi, Junseong Kim, Jy-yong Sohn  
(\* Equal Contributions)  
Under Review

## HONORS AND SCHOLARSHIPS

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2024	<b>Honors, Yonsei University</b> Top 10% in the College of Engineering
2023	<b>Excellence Award, Yonsei University</b> Urban Engineering Capstone Design Graduation Exhibition
2023	<b>Inclusion@RSS Fellowship</b> , Robotics: Science and Systems (RSS) 2023 Selected as one of the 17 fellows from 165 applicants (10.3% acceptance rate)
2022	<b>High Honors, Yonsei University</b> Top 3% in the College of Engineering
2021 - 2022	<b>Jilli Scholarship (Merit-based Scholarship), Yonsei University</b> Awarded approximately \$4,000
2021	<b>Honors, Yonsei University</b> Top 10% in the College of Engineering

## TECHNICAL SKILLS

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Programming Languages:	Python, Java, C++, HTML/CSS, SQL/PostgreSQL, R, MIPS Assembly
Tools:	Deep Learning Frameworks (PyTorch, Tensorflow), Python Scientific Computing Libraries (numpy, matplotlib etc.), Open3D, NVIDIA Isaac Sim, Docker, SLURM, $\LaTeX$
Operating Systems:	Windows, Mac OS X, Linux(Ubuntu)

## LANGUAGES

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English (Native), Korean (Native)

## REFERENCES

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Available Upon Request