

# Hyunjin Kim

hyk071@ucsd.edu

<https://hjhyunjinkim.github.io>

## RESEARCH INTERESTS

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**3D Computer Vision:** 3D/4D Scene Reconstruction and Understanding, 3D Scene Generation

**Robotics:** Egocentric Perception and Robotics Simulation

## EDUCATION

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**University of California San Diego**

September 2024 - June 2026 (Expected)

M.S. in Computer Science (Specialization: Artificial Intelligence)

Advisor: Prof. Xiaolong Wang

- GPA: 4.0 / 4.0

**Yonsei University**

March 2020 - August 2024

B.S. in Computer Science and Engineering

B.S. in Urban Planning and Engineering

**University of Toronto**

September 2022 - April 2023

Exchange Student, Computer Science

## PUBLICATIONS

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1. **Metropolis-Hastings Sampling for 3D Gaussian Reconstruction**

Hyunjin Kim, Haebeom Jung, Jaesik Park

Under Review, 2025

2. **Visual Acoustic Fields**

Yuele Li, Hyunjin Kim, Fangneng Zhan, Ri-Zhao Qiu, Mazeyu Ji, Xiaojun Shan, Xueyan Zou, Paul Liang, Hanspeter Pfister, Xiaolong Wang

Under Review, 2025

3. **Can Separators Improve Chain-of-Thought Prompting?**

Yoonjeong Park\*, Hyunjin Kim\*, Chanyeol Choi, Junseong Kim, Jy-yong Sohn

( \* Equal Contribution )

IEEE The International Conference on Foundation and Large Language Models (FLLM), 2024

## RESEARCH EXPERIENCE

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**Wang Group**, University of California San Diego

La Jolla, CA, USA

Graduate Researcher, advised by Prof. Xiaolong Wang

September 2024 - Present

**Visual & Geometric Intelligence (VGI) Lab**, Seoul National University

Seoul, Republic of Korea

Research Intern / Collaborator, advised by Prof. Jaesik Park

December 2023 - February 2025

**KAIST Visual AI Group**, KAIST School of Computing

Daejeon, Republic of Korea

Research Intern, advised by Prof. Minhyuk Sung

June 2023 - August 2023

**Robot Vision and Learning (RVL) Lab**, University of Toronto

Toronto, Canada

Research Student, advised by Prof. Florian Shkurti, Prof. Animesh Garg

January 2023 - May 2023

**Medical Imaging and Computer Vision (MICV) Lab**, Yonsei University

Seoul, Republic of Korea

Research Intern, advised by Prof. SeongJae Hwang

June 2022 - August 2022

## INDUSTRY EXPERIENCE

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|---|---|
| <b>Qualcomm</b><br>Research Student, supervised by <a href="#">Prof. Henrik I. Christensen</a> , <a href="#">Sriraj Kandala</a> , <a href="#">Ramakrishna Kintada</a> | San Diego, CA, USA<br>January 2025 - Present                  |
| <b>Linq</b><br>Research Intern, supervised by <a href="#">Prof. Jy-yong Sohn</a> , <a href="#">Dr. Junseong Kim</a>   | Cambridge, MA, USA (REMOTE)<br>September 2023 - February 2024 |
| <b>RebuilderAI</b><br>Industry Collaboration External Researcher  | Seongnam, Republic of Korea<br>July 2023 - September 2023     |
| <b>Alchera Inc.</b><br>Industry Collaboration External Researcher   | Seongnam, Republic of Korea<br>July 2022 - September 2022     |

## HONORS AND SCHOLARSHIPS

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

## TECHNICAL SKILLS

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|------------------------|--|
| Programming Languages: | Python, Java, C++, R, MIPS Assembly  |
| Machine Learning:      | PyTorch, Tensorflow, NumPy, Matplotlib, Pandas, Open3D, Sckit-learn, Jupyter |
| Tools:                 | Linux, SQL/PostgreSQL, Git, Docker, Google Cloud, Slurm, $\LaTeX$            |

## PERSONAL INFORMATION

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| <b>Languages:</b>   | English (Native), Korean (Native)              |
| <b>Citizenship:</b> | United States, Republic of Korea (South Korea) |

## REFERENCES

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Available Upon Request