

DONGHYUN KIM

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EDUCATION

Yonsei University
B.S. in Computer Science

Seoul, Korea
Mar, 2019 - Aug, 2023

Yonsei University
M.S. / Ph.D. in Computer Science

Seoul, Korea
Sep, 2023 - Present

RESEARCH EXPERIENCE

MICV Lab, Department of Artificial Intelligence, Yonsei University
M.S. / Ph.D.

Sep, 2023 - Present

- Image Dehazing
- CXR Understanding
- 3D Point Cloud Upsampling
- 3D Point Cloud Representation Learning
- Text-guided 3D Point Cloud Editing

MICV Lab, Department of Artificial Intelligence, Yonsei University
Under grad. Intern

Jul, 2022 - Aug, 2023

- Image Dehazing
- Domain Generalization
- Medical Imaging
- Generative Model

DC Lab, Department of Computer Science and Engineering, Yonsei University
Under grad. Intern

Jan, 2021 - Jun, 2021

- Project "FluidTrack" with Severance Children's Hospital
 - Develop Tablet PC-based Application
 - Experimenter Interview

YBIGTA, Yonsei University
Data Science Team Member

Jan, 2022 - Feb, 2023

- Sessions about CV & ML & NLP & RL
- Study Groups about Generative Model & 3D Point Cloud
- Internal Conferences
 - Project "All-in-Space"
Sentence Embedding & Clustering
 - Project "Bartender-Y"
Sentence Embedding & Recommender System

Yonsei AI Exchange Program, Arizona State University
Participant

Feb, 2024

PAPERS

PLATYPUS: Progressive Local Surface Estimator for Arbitrary-Scale Point Cloud Upsampling
1st Author AAAI 2025 Oral (*top 4.6%*)

FALCON: Fast Image Haze Removal Leveraging Continuous Density Mask
1st Author CVPR 2025 Workshop (NTIRE Workshop)

Fourier Decomposition for Explicit Representation of 3D Point Cloud Attributes
1st Author under review

WoLF: Wide-scope Large Language Model Framework for CXR Understanding
3rd Author under review

PROFESSIONAL EXPERIENCE

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| Conference Reviewer <i>WACV 2025, CVPR Workshop 2025</i> | |
| Journal Reviewer <i>Pattern Recognition</i> | 2024 |
| Teaching Assistant <i>Introduction to Deep Learning and Application, Yonsei University</i> | Mar, 2024 - Jun, 2024 |
| <i>Introduction to Deep Learning and Application, Yonsei University</i> | Mar, 2025 - Jun, 2025 |
| Lecture Instructor <i>DX (Digital Transformation) Training, Samsung Electronics</i> | Sep, 2023 - Oct, 2023 |

INDUSTRY EXPERIENCE

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| Linz Private Equity <i>Intern</i> | Jan, 2020 - Feb, 2020 |
| <ul style="list-style-type: none">• Stock Data Analysis | |
| Innoyard <i>Software Engineer, Researcher</i> | Jun, 2021 - Aug, 2022 |
| <ul style="list-style-type: none">• Project "InnoScan" - Mobile 3D Human Body Data Capturing Service<ul style="list-style-type: none">– Develop Mobile & Tablet PC-based Application (Flutter & Swift)– Collect 3D Point Cloud Data– Research on 3D Data Processing (Point Cloud Registration & Surface Reconstruction) | |

AWARDS & HONORS

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| Coding Challenge, Korea Institute of Startup & Entrepreneurship Development(KISED) <i>2nd Prize</i> | Dec, 2021 |
| Software Capstone Project, Department of Computer Science and Engineering, Yonsei University <i>Exhibition Popularity Award</i> | 2nd Semester, 2022 |
| Software Capstone Project, Department of Computer Science and Engineering, Yonsei University <i>Grand Prize</i> | 1st Semester, 2023 |