Jinsu Yoo – Curriculum Vitae

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Interests

Affordable autonomy with minimal human supervision. My research develops label-efficient and robust 3D models—spanning perception to planning—that enable reliable autonomous systems under real-world constraints, such as limited sensor data, diverse environments, and safety-critical requirements.

Education

The Ohio State University, Columbus, OH — 2023 – 2028 (expected)
Ph.D. in Computer Science & Engineering
Research Topics: Multi-Agent & Multi-Sensor Approaches for Affordable and Reliable Autonomy
Advisor: Wei-Lun (Harry) Chao

Hanyang University, Seoul, Korea — 2020 – 2022
M.S. in Artificial Intelligence
Thesis: Learning Internal Features for Super-Resolution
Advisor: Tae Hyun Kim

Hanyang University, Seoul, Korea — 2014 – 2020
B.S. in Computer Science & Engineering, *summa cum laude*
Completed mandatory military service in the Republic of Korea Air Force (2015–2017)

Preprints

**: Equal contribution. More information can be found on Google Scholar.*

Leveraging Sparse LiDAR for RAFT-Stereo: A Depth Pre-Fill Perspective
Jinsu Yoo, Sooyoung Jeon, Zanming Huang, Tai-Yu Pan, Wei-Lun Chao
arXiv preprint 2507.19738, 2025.

Conference & Journal Papers

Transfer Your Perspective: Controllable 3D Generation from Any Viewpoint in a Driving Scene
Tai-Yu Pan, Sooyoung Jeon, Mengdi Fan, **Jinsu Yoo**, Zhenyang Feng, Mark Campbell, Kilian Q Weinberger, Bharath Hariharan, Wei-Lun Chao
*IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**)*, 2025.

Learning 3D Perception from Others' Predictions
Jinsu Yoo, Zhenyang Feng, Tai-Yu Pan, Yihong Sun, Cheng Perng Phoo, Xiangyu Chen, Mark Campbell, Kilian Q Weinberger, Bharath Hariharan, Wei-Lun Chao
*International Conference on Learning Representations (**ICLR**)*, 2025.
ICCV DriveX Workshop, 2025. *(**Oral presentation**)*

Looking Beyond Input Frames: Self-Supervised Adaptation for Video Super-Resolution
Jinsu Yoo, Jihoon Nam, Sungyong Baik, Tae Hyun Kim
*Pattern Recognition (**PR**)*, 2024.

Semantic-Aware Dynamic Parameter for Video Inpainting Transformer
Eunhye Lee*, **Jinsu Yoo***, Yunjeong Yang, Sungyong Baik, Tae Hyun Kim
*IEEE/CVF International Conference on Computer Vision (**ICCV**)*, 2023.

Enriched CNN-Transformer Feature Aggregation Networks for Super-Resolution
Jinsu Yoo, Taehoon Kim, Sihaeng Lee, Seung Hwan Kim, Honglak Lee, Tae Hyun Kim
*IEEE/CVF Winter Conference on Applications of Computer Vision (**WACV**)*, 2023.

Fully Convolutional Transformer with Local-Global Attention
Sihaeng Lee*, Eojindl Yi*, Janghyeon Lee, **Jinsu Yoo**, Honglak Lee, Seung Hwan Kim
*IEEE/RSJ International Conference on Intelligent Robots and Systems (**IROS**)*, 2022.

Fast Adaptation to Super-Resolution Networks via Meta-Learning
Seobin Park*, **Jinsu Yoo***, Donghyeon Cho, Jiwon Kim, Tae Hyun Kim
*European Conference on Computer Vision (**ECCV**)*, 2020.

Workshop Papers

Static Segmentation by Tracking: A Frustratingly Label-Efficient Approach to Fine-Grained Segmentation
Zhenyang Feng, ..., **Jinsu Yoo**, ..., Wei-Lun Chao (25 authors)
CVPR CV4Animals Workshop, 2025. *(**Oral presentation**)*

Experience

LG AI Research, Seoul, Korea — Jul 2021 – Dec 2021
Research Intern | *Topics*: Image Restoration, Vision Transformers

Seoul National University, Seoul, Korea — Mar 2020 – Jun 2020
Research Intern | *Topics*: Imbalanced Image Classification

University of California, Irvine, Irvine, CA — Dec 2017 – Feb 2018
Visiting Student (Undergraduate Research Opportunity Program)

Honors & Awards

Outstanding Reviewer Award, ECCV 2024	2024
Study Abroad Scholarship (10 exceptional alumni), Hanyang University	2023
Outstanding Reviewer Award (top 4%), ECCV 2022	2022
HY-IN Scholarship (for being an exceptional graduate student), Hanyang University	2020 – 2022
Graduation Excellence Award (for academic achievements), Hanyang University	2020
Grand Prize (2nd out of 66 teams), Undergraduate Project Competition, Hanyang University	2019
Hanyang Academic Excellence Award (awarded twice), Hanyang University	2019
Merit-based Scholarship (5 semesters), Hanyang University	2015 – 2019

Teaching Assitant

OSU CSE 5524 Computer Vision | *Instructor*: Joe Barker — Summer 2025, Autumn 2025

Mentees

Cristian Bautista	2025 – present
Zhen Xu	2025 – present
Baicheng Wu	2025 – present
Zhenyang (Daniel) Feng	*Next*: PhD Student at UC Irvine — 2024 – 2025

Conference Reviewer

†: *Outstanding reviewer*

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)	2022, 2023, 2024, 2025, 2026
IEEE/CVF International Conference on Computer Vision (ICCV)	2023, 2025
European Conference on Computer Vision (ECCV)	2022†, 2024†
Conference on Neural Information Processing Systems (NeurIPS)	2025
IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)	2021, 2022, 2023, 2024
Asian Conference on Computer Vision (ACCV)	2022, 2024