

Jinsu Yoo

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My goal is to solve **foundational data bottlenecks** first, then unlock generalized AI solutions for downstream domains, ranging from autonomous driving and robotics to AI4Science (e.g., ecology and evolutionary biology).

Education

Ph.D., Electrical & Computer Engineering, Boston University, Boston, MA 2026–2028 (expected)
Advisor: [Wei-Lun \(Harry\) Chao](#)

Ph.D., Computer Science & Engineering, The Ohio State University, Columbus, OH 2023–2026
Transferred to Boston University with advisor

M.S., Artificial Intelligence, Hanyang University, Seoul, Korea 2020–2022
Advisor: [Tae Hyun Kim](#)

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

Work Experience

Intern, Perception Team, Waymo Summer 2026

- Automated dataset auditing for 3D object detection at production scale.

Intern, Vision Lab, LG AI Research Summer 2021

- Image restoration with transformer-based architectures.

Honors & Awards

- 4× Outstanding Reviewer Award (CVPR 2026, ECCV 2022/2024/2026) 2022–2026
- Best Poster Award, CVPR 2026 DriveX Workshop 2026
- NAIRR Pilot Compute Allocation (10,000 GPU-hours, Project Lead), NSF 2026
- Study Abroad Scholarship (10 exceptional alumni), Hanyang University 2023
- Multiple merit-based scholarships & academic awards, Hanyang University 2015–2022

Publications

*: equal contribution. ✓: first/co-first-author papers.

Conference & Journal Papers

[Autonomous Driving Research Requires a Community-Driven Data Paradigm](#) ✓

[Jinsu Yoo*](#), Zanming Huang*, Katie Z Luo, Zheda Mai, Qiyuan Wu, Bharath Hariharan, Mark Campbell, Wei-Lun Chao

NeurIPS 2026 Position Paper

[When the City Teaches the Car: Label-Free 3D Perception from Infrastructure](#) ✓

Zhen Xu*, [Jinsu Yoo*](#), Cristian Bautista*, Zanming Huang, Tai-Yu Pan, Zhenzhen Liu, Katie Z Luo, Mark Campbell, Bharath Hariharan, Wei-Lun Chao

ECCV 2026; CVPR 2026 DriveX Workshop (Best Poster Award)

[Preserving Guidance in Cost-Volume Retrieval under Extreme LiDAR Sparsity in Iterative Stereo](#) ✓

[Jinsu Yoo](#), Sooyoung Jeon, Zanming Huang, Tai-Yu Pan, Wei-Lun Chao

IROS 2026

On the Feasibility and Opportunity of Autoregressive 3D Object Detection

Zanming Huang, Jinsu Yoo, Sooyoung Jeon, Zhenzhen Liu, Mark Campbell, Kilian Q Weinberger, Bharath Hariharan, Wei-Lun Chao, Katie Z Luo

CVPR 2026 Findings

Continual Unlearning for Text-to-Image Diffusion Models: A Regularization Perspective

Justin Lee*, Zheda Mai*, Jinsu Yoo, Chongyu Fan, Cheng Zhang, Wei-Lun Chao

ICLR 2026

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

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

ICLR 2025; ICCV 2025 DriveX Workshop (Oral Presentation)

Looking Beyond Input Frames: Self-Supervised Adaptation for Video Super-Resolution ✓

Jinsu Yoo, Jihoon Nam, Sungyong Baik, Tae Hyun Kim

Pattern Recognition 2024

Semantic-Aware Dynamic Parameter for Video Inpainting Transformer ✓

Eunhye Lee*, Jinsu Yoo*, Yunjeong Yang, Sungyong Baik, Tae Hyun Kim

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

WACV 2023

Fully Convolutional Transformer with Local-Global Attention

Sihaeng Lee*, Eojindl Yi*, Janghyeon Lee, Jinsu Yoo, Honglak Lee, Seung Hwan Kim

IROS 2022

Fast Adaptation to Super-Resolution Networks via Meta-Learning ✓

Seobin Park*, Jinsu Yoo*, Donghyeon Cho, Jiwon Kim, Tae Hyun Kim

ECCV 2020

Workshop Papers

Benchmarking Heterogeneous and Compositional Continual Learning for Vision-Language-Action Models

Sooyoung Jeon, Zhen Xu, Jae Young Lim, Jinsu Yoo, Yunbei Zhang, Jiacheng Hou, Zheda Mai, Wei-Lun Chao

IROS 2026 Workshop

On the Feasibility of Activation Steering for End-to-End Driving

Shu-Wei Lu, Jinsu Yoo, Yu-Hsiang Chen, Yi-Hsuan Tsai, Wei-Lun Chao, Yi-Ting Chen

ECCV 2026 DriveX Workshop

Static Segmentation by Tracking: A Frustratingly Label-Efficient Approach to Fine-Grained Segmentation

Zhenyang Feng, . . . , Jinsu Yoo, . . . , Wei-Lun Chao (25 authors)

CVPR 2025 CV4Animals Workshop (Oral Presentation)

Invited Talks & Tutorials

Boston University AI Research (AIR) Seminar	<i>Sept 2026</i>
Learning to perceive from other road observers	
ECCV 2026 X-Sense Tutorial	<i>Sept 2026</i>
Learning to perceive from other road observers	

Teaching

Computer Vision (CSE 5524) @ The Ohio State University	<i>Summer 2025, Autumn 2025</i>
Graduate Teaching Assistant	

Mentoring

Zhen Xu (→ Ph.D. student at Nanjing University)	<i>2025–2026</i>
Cristian Bautista (→ Ph.D. student at The Ohio State University)	<i>2025–2026</i>
Daniel Feng (→ Ph.D. student at UC Irvine)	<i>2024–2025</i>

Service

Organizer, ECCV 2026 X-Sense Tutorial	<i>2026</i>
Program Committee, ECCV 2026 DriveX Workshop	<i>2026</i>
Conference & Journal Reviewer	
• IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)	<i>2026</i>
• Conference on Computer Vision and Pattern Recognition (CVPR)	<i>2022–2026</i>
• International Conference on Computer Vision (ICCV)	<i>2023, 2025</i>
• European Conference on Computer Vision (ECCV)	<i>2022, 2024, 2026</i>
• Conference on Neural Information Processing Systems (NeurIPS)	<i>2025, 2026</i>
• IEEE Intelligent Vehicles Symposium (IV)	<i>2026</i>
• Winter Conference on Applications of Computer Vision (WACV)	<i>2021–2024</i>
• Asian Conference on Computer Vision (ACCV)	<i>2022, 2024</i>