

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

- I2. [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
Conference on Neural Information Processing Systems (NeurIPS), 2026. (Position Paper Track)
- II. [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
European Conference on Computer Vision (ECCV), 2026.
Also: CVPR 2026 DriveX Workshop (**Best Poster Award**)

10. [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
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2026.
9. [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
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2026. (Findings Track)
8. [Continual Unlearning for Text-to-Image Diffusion Models: A Regularization Perspective](#)
 Justin Lee*, Zheda Mai*, Jinsu Yoo, Chongyu Fan, Cheng Zhang, Wei-Lun Chao
International Conference on Learning Representations (ICLR), 2026.
7. [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.
6. [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.
 Also: ICCV 2025 DriveX Workshop (**Oral Presentation**)
5. [Looking Beyond Input Frames: Self-Supervised Adaptation for Video Super-Resolution](#) ✓
Jinsu Yoo, Jihoon Nam, Sungyong Baik, Tae Hyun Kim
Pattern Recognition, 2024.
4. [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.
3. [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.
2. [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.
1. [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

3. 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.
2. 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.

- I. [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 *Sept 2026*
Learning to perceive from other road observers

ECCV 2026 X-Sense Tutorial *Sept 2026*
Learning to perceive from other road observers

Teaching

Computer Vision (CSE 5524) @ The Ohio State University *Summer 2025, Autumn 2025*
Graduate Teaching Assistant

Mentoring

Zhen Xu (→ Ph.D. student at Nanjing University) *2025–2026*

Cristian Bautista (→ Ph.D. student at The Ohio State University) *2025–2026*

Daniel Feng (→ Ph.D. student at UC Irvine) *2024–2025*

Service

Organizer, ECCV 2026 X-Sense Tutorial *2026*

Program Committee, ECCV 2026 DriveX Workshop *2026*

Conference & Journal Reviewer

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) *2026*
- Conference on Computer Vision and Pattern Recognition (CVPR) *2022–2026*
- International Conference on Computer Vision (ICCV) *2023, 2025*
- European Conference on Computer Vision (ECCV) *2022, 2024, 2026*
- Conference on Neural Information Processing Systems (NeurIPS) *2025, 2026*
- IEEE Intelligent Vehicles Symposium (IV) *2026*
- Winter Conference on Applications of Computer Vision (WACV) *2021–2024*
- Asian Conference on Computer Vision (ACCV) *2022, 2024*