

Sooyoung Jeon

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Research Interest

My research spans computer vision and machine learning, focusing on perception and robust visual understanding across diverse real-world domains like autonomous driving or robotics.

Education

The Ohio State University, Columbus OH Aug 2023 – Present
M.S. in Computer Science and Engineering - Advisor: [Wei-Lun \(Harry\) Chao](#)

The Ohio State University, Columbus OH Aug 2019 – May 2023
B.S. in Computer Science and Engineering - Artificial Intelligence, Minor in Statistics

Publications and Submissions

- Lessons and Open Questions from a Unified Study of Camera-Trap Species Recognition Over Time
[Sooyoung Jeon](#), Hongjie Tian, Lemeng Wang, Zheda Mai, Vidhi Bakshi, Jiacheng Hou, Ping Zhang, Arpita Chowdhury, Jianyang Gu, Wei-Lun Chao
Under Review, 2026
Earlier workshop version: *CAN? A Continual Learning Benchmark of Camera Trap Species Classification over Time, NeurIPS 2025 Workshop on Imageomics*
- A Survey of Continual Learning for Robotics in the Foundation Model Era
Zheda Mai, [Sooyoung Jeon](#), Zanming Huang, Jinsu Yoo, Colin Lee, Gengyu Zhang, Haoxuan Wang, Yifan Li, Yu Kong, Yan Yan, Wei-Lun Chao
Under Review, 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
Conference on Computer Vision and Pattern Recognition (CVPR) Findings, 2026
- AVA-Bench: Atomic Visual Ability Benchmark for Vision Foundation Models
Zheda Mai, Arpita Chowdhury, Zihe Wang, [Sooyoung Jeon](#), Lemeng Wang, Jiacheng Hou, Wei-Lun Chao
Conference on Computer Vision and Pattern Recognition (CVPR), 2026
- Leveraging Sparse LiDAR for RAFT-Stereo: A Depth Pre-Fill Perspective
Jinsu Yoo, [Sooyoung Jeon](#), Zanming Huang, Tai-Yu Pan, Wei-Lun Chao
Under Review, 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
Conference on Computer Vision and Pattern Recognition (CVPR), 2025

Please see my [website](https://jeonso0907.github.io) (<https://jeonso0907.github.io>) for the pre-print of the manuscripts.

Experience

Buckeye Autodrive, The Ohio State University – Columbus, OH
Perception Lead

Aug 2024 – Present

- Developed 2D / 3D perception models in a pipeline operating with Robot Operating System (ROS).
- Managed 20+ undergraduate and graduate students.

J.P. Morgan Chase – Columbus, OH
Software Engineering Intern

June 2022 – Aug 2022

- Developed auto-mail service for small business owner's loans to inform missing documents with Java.
- Added REST API endpoints to provide various types of templates of documents to fill to the customer.

Lexon Corporation – Columbus, OH
Inter-Developer Intern

May 2021 – Aug 2021

- Contributed to maintaining and upgrading the automobile parts data control web service.

Skills

- *Programming Languages*: Python, C, Java, MySQL, Typescript, Javascript, Visual Basics, Spring, R, PHP, and Ruby.
- *Software*: PyTorch, Hugging Face, CUDA, ROS, Linux, UNIX, OOP, MVC model, Junit debugging, REST API, Firebase, ER-Model, and Git.
- *Languages*: Fluent in Korean, English.