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.

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

- 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

  Under Review

- Continually Adapt or Not (CAN)? A Continual Learning Benchmark of Camera Trap Species Classification over Time

  Sooyoung Jeon, Zheda Mai, Hongjie Tian, Vidhi Bakshi, Lemeng Wang, Jiacheng Hou, Ping Zhang, Arpita Chowdhury, Wei-Lun Chao

  Neural Information Processing Systems (NeurIPS) Workshop, 2025

- 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

  ArXiv 2506.09082, 2025

- Leveraging Sparse LiDAR for RAFT-Stereo: A Depth Pre-Fill Perspective

  Jinsu Yoo, **Sooyoung Jeon**, Zanming Huang, Tai-Yu Pan, Wei-Lun Chao

  ArXiv 2507.19738, 2025

- 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) for the pre-print of the manuscripts.

Experience

Buckeye Autodrive, The Ohio State University – Columbus, OH   Aug 2024 – Present
Perception Lead

- 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   June 2022 – Aug 2022
Software Engineering Intern

- 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   May 2021 – Aug 2021
Inter-Developer Intern

- 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.