

# Sung-Yeon Park

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## RESEARCH INTERESTS

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- 3D Scene Understanding, Large Language Models, Scene Reconstruction, Generative World Models, Spatial Reasoning
- Digital Twin Simulation, Autonomous Driving

## EDUCATION

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- **Purdue University** West Lafayette, IN, USA  
Ph.D. at Digital Twin Lab; Aug 2024 -
- **Seoul National University** Seoul, South Korea  
B.S. and M.S. in Civil and Environmental Engineering; March 2017 - Feb 2023

## WORK EXPERIENCES

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- **Glucofit** Machine Learning Engineer (Mar 2023 - Jun 2024)
- **Deer Mobility** Data Scientist (July 2020 - Sep 2020)
- **Samsung Creative Lab** In-house Venture Accelerator Intern (Jan 2020 - Feb 2020)

## CONFERENCE PAPERS (SELECTED)

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- **Park, S.-Y.**, Lee, A., Lu, J., Cui, C., Jiang, L., Gupta, R., Han, K., Moradipari, A., Wang, Z.\* (preprint). *SIMSplat: Predictive Driving Scene Editing with Language-aligned 4D Gaussian Splatting*.
- Cui, C., Zhou, Y., Peng, J., **Park, S.-Y.**, Yang, Z., Sankaranarayanan, P., Zhang, J., Zhang, R., & Wang, Z.\* (preprint). *ViLaD: A Large Vision Language Diffusion Framework for End-to-End Autonomous Driving*.
- **Park, S.-Y.**, Cui, C., Ma, Y., Moradipari, A., Gupta, R., Han, K., & Wang, Z.\* (2025, Oct 19-23). *NuPlanQA: A Large-Scale Dataset and Benchmark for Multi-View Driving Scene Understanding in Multi-Modal Large Language Models*. International Conference on Computer Vision, (**ICCV**), Hawaii, United States.
- C. Cui, Yang, Z., Zhou, Y., Peng, J., **Park, S.-Y.**, Zhang, C., Ma, Y., Cao, X., Ye, W., Feng, Y., Panchal, J., Li, L., Chen, Y., & Wang, Z.\* (2025, Oct 19-25). *On-Board Vision-Language Models (VLMs) for Personalized Motion Control of Autonomous Vehicles*. International Conference on Intelligent Robots and Systems (**IROS**) Hangzhou, China.
- **Park, S.-Y.**, Lee, M.-J., Choi, H.-H., Kang, J.-H., Park, Y.-A., Cho, J.-H., Lee, A., & Kim, D.-K.\* (2024, Jan 4-8). *VLAAD: Vision and Language Assistant for Autonomous Driving*. IEEE/CVF Winter Conference on Applications of Computer Vision (**WACV**), Hawaii, United States.
- **Park, S.-Y.**, Lee, M.-J., Choi, H.-H., Kang, J.-H., Park, Y.-A., Cho, J.-H., Lee, A., & Wang, Z.\* (2025, Jan 5-9). *Bird's-Eye-View Reasoning on Driving Scene with Large Language Model*. Transportation Research Board 104<sup>th</sup> Annual Meeting, (**TRB**), Washington D.C., United States.

## JOURNAL PUBLICATIONS

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- **Park, S.-Y.**, Joo, Y.-J., & Kim, D.-K.\* (2023). Order Dispatching in Ride-pooling with Walking Points Search. *Transportation Research Record*, 0(0). <https://doi.org/10.1177/03611981231175890>
- **Park, S.-Y.**, Ham, S.-W., & Kim, D.-K.\*. (2023). User Segmentation based on Travel Regularity in E-scooter Sharing Service. *Transportation Research Record*, 2677(7), 290–306. <https://doi.org/10.1177/03611981231152256>

## PROFESSIONAL ACTIVITIES

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- Workshop Organizer
  - WACV 2026 Workshop on Large Language and Vision Models for Autonomous Driving
  - ICCV 2025 Workshop on Distillation of Foundation Models for Autonomous Driving
  - ITSC 2024 Workshop on Large Language and Vision Models for Autonomous Driving
- Journal Reviewer
  - IEEE Internet Computing
  - IEEE Transactions on Intelligent Vehicles
  - IEEE Transactions on Intelligent Transportation Systems
  - Transportation Research Record

## HONORS AND AWARDS

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- **Best Paper Award (The 2023 Transportation Research Board Annual Meeting) - Feb, 2023**
- Best Paper Award (The 40th International Conference of the Korean Society of Transportation) - Sep, 2022
- Outstanding Graduate Student Instructor (College of Engineering, Seoul National University) - April, 2022
- Outstanding Graduate Award (Korean Society of Transportation) - February, 2021

## SCHOLARSHIPS

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- Lotte Foundation Scholarship - 2017-F, 2018-S, 2018-F, 2019-S, 2019-F, 2020-S, 2020-F
- Samsung Dream Scholarship - 2018-F, 2019-S
- DL Construction based Scholarship from Seoul National University - 2019-F, 2020-S
- Seoul National University Gwanak Foundation Scholarship - 2020-F

## TEACHING ASSISTANT

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- 457.301(001) Transportation Planning - 2021-S, 2022-S
- 457.208(001) Transportation Engineering - 2021-F, 2022-F
- 457.526A(001) Public Transportation Engineering - 2022-S
- 457.405(001) Introduction to Traffic Operation - 2022-S

## SKILLS SUMMARY

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- Python
- Pytorch, Transformers
- LaTeX, Figma