Gyusam Chang

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Google Scholar:
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Research Interests

Autonomous Driving, Robotics
Machine learning, Deep learning, Computer vision
3D Recognition, Domain Generalization, Multi-modal Representation Learning

Education

University of California, Los Angeles — USA
Visiting Graduate Researcher - Mechanical and Aerospace Engineering — *Sep. 2024 – Sep. 2025*

Korea University — South Korea
Integrated MS / Ph.D. - Artificial Intelligence — *Sep. 2022 –*

Korea University — South Korea
BE - Electronics and Information Engineering — *Mar. 2015 – Aug. 2021*

Working Experience

Research Internship @ Samsung Advanced Institute of Technology — Oct. 2022 – Jun. 2024
Advisor: Sujin Jang (Computer Vision Technical Unit)

- Autonomous Driving
- Unsupervised Domain Adaptation for LiDAR-based 3D Object Detection
- Domain Generalization for Multi-view 3D Object Detection

Internship @ Korea University — Dec. 2021 – Aug. 2022
Advisor: Prof. Sangpil Kim (Dept. of AI)

- Autonomous Driving, 3D Object Detection *(joint research with Meta Reality Lab and Hyundai Motor)*
- Multimodal Graph Neural Network, Recommender systems *(joint research with Naver Corp.)*

Software Engineer @ Rootee Health Corp. — May. 2021 – Dec. 2021

- Fundus Camera Development
- Auto Focus System Development

Publications

[1] **Cross-Modal Domain Generalization for Multi-view 3D Object Detection** — **G. Chang**, W. Ryoo, S. Jang, J. Kim, D. Lee, D. Ji, S. Kim (*Under Review*)

[2] **Unified Domain Generalization and Adaptation for Multi-View 3D Object Detection** — **G. Chang**, J. Lee., D. Lee, D. Ji, J. Kim, S. Jang*, S. Kim* (*The Thirty-eighth Annual Conference on Neural Information Processing Systems, NeurIPS 2024*)

[3] **CMDA: Cross-Modal and Domain Adversarial Adaptation for LiDAR-Based 3D Object Detection** — **G. Chang***, W. Roh*, S. Jang, D. Lee, D. Ji, G. Oh, J. Park, J. Kim†, S. Kim† (*The 38th Annual AAAI Conference on Artificial Intelligence, AAAI 2024*) [PDF]

[4] **Self-Supervised Multimodal Graph Neural Network** — S. Kim, **G. Chang**, W. Roh, D. Sohn, J. Lee, H. Park†, S. Kim† (*Information Sciences, 2024*) [PDF]

[5] **ORA3D: Overlap Region Aware Multi-view 3D Object Detection** — W. Roh, **G. Chang**, S. Moon, G. Nam, C. Kim, Y. Kim, S. Kim†, J. Kim† (*British Machine Vision Conference, BMVC 2022*) [PDF]

Skills

Programming

- Fluent in Python, Pytorch, Tensorflow, Scikit-Learn, C/C++, Go, MATLAB, Verilog, LaTeX