

DAEUN LEE

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RESEARCH INTERESTS

- *Faithfulness*: OOD Generalization, Debiasing, Evaluation Metrics for Generation
- *Self-Evolving/Correcting Models*: Model-Guided Verification
- *Video Generation/Understanding*

EDUCATION

The University of North Carolina at Chapel Hill

NC, United States

PhD student. Computer Science (Advisor: Mohit Bansal)

Aug. 2024 —

- Research Assistant Fellowship

Korea University

Seoul, South Korea

B.E. Department of Statistics (GPA: 4.0/4.5, Major GPA: 4.0/4.5)

Mar. 2019 — Feb. 2024

- Special Scholarship for Outstanding Students

PUBLICATIONS

[C4] BECoTTA: Input-dependent Online Blending of Experts for Continual Test-Time Adaptation

[Daeun Lee*](#), Jaehong Yoon*, Sung Ju Hwang.

International Conference on Machine Learning (ICML, 2024)

[C3] Improving Lane Detection Generalization: A Novel Framework using HD Maps for Diversity

[Daeun Lee](#), Minhyeok Heo, Jiwon Kim.

CVPR Data-Driven Autonomous Driving Simulation Workshop (CVPRW, 2024)

[C2] Resolving Class Imbalance for LiDAR-based Object Detector by Dynamic Weight Average and Contextual Ground Truth Sampling

[Daeun Lee](#), Jinkyu Kim.

IEEE/CVF Winter Conference on Applications of Computer Vision (WACV, 2023)

[C1] Bridging the Domain Gap towards Generalization in Automatic Colorization

Hyejin Lee, Daehee Kim, [Daeun Lee](#), Jinkyu Kim and Jaekoo Lee.

European Conference on Computer Vision (ECCV, 2022)

[P1] Trajectory Prediction by Clustering Human Interactions at Multiple Scales

Chiho Choi*, [Daeun Lee*](#), Srikanth Malla, Sangjae Bae, Jinkyu Kim.

Preprint

ACADEMIC SERVICES

Reviewer

- *IEEE/CVF Conference on Computer Vision and Pattern Recognition(CVPR)*, 2022, 2024
- *European Conference on Computer Vision(ECCV)*, 2022, 2024

RESEARCH EXPERIENCES

UNC Chapel Hill

Graduate Research Assistant (Supervisor: Mohit Bansal)

- Researched Video Generation with Faithfulness.

NC, United States

Aug.2024 — Current

KAIST

Research Intern / Contract Researcher (Supervisor: Sung Ju Hwang)

- Created a Mixture-of-Domain-Adapter architecture for the robust Continual Test-time Adaptation in the real-world driving scenarios. [C4]

Seoul, South Korea

Mar.2023 — Current

NAVER LABS

Research Intern (Mentor: Minheok Heo)

- Dived into domain shifts in lane detection and built a novel single-source domain generalization framework using in-house HD maps. [C3]

Jungja, South Korea

Jul.2022 — Dec.2022

KOREA UNIVERSITY

Research Intern (Supervisor: Jinkyu Kim)

- Developed perception models related to self-driving(e.g. Trajectory Prediction, LiDAR 3D Object Detection)
- Collaborated with Honda Research, NAVER Cloud and Hyundai Motors.[C2, C1, P1]

Seoul, South Korea

Jul.2021 — Dec.2022

AWARDS & HONORS

Travel Grant from ICML2024 Area Chair

June.2024

Digital Innovation Big Data Contest

May.2021

2nd place

Korea Enterprise Data Corp.(KED)

- Developed a multi-classification model designed to categorize the primary purpose of the business in response to a prompt aimed at establishing a company and presented in front of 50+ people about the business usage of these models.

ICT Autonomous Driving Project

Dec.2020

5st place

The Federation of Korean Information Industries

- Took a front-view video on a driving car, obtained 500+ images, annotated them, and trained a segmentation model.

Financial Big Data Festival

Dec.2020

1st place

MiraeAsset.Corp

- Built with ExtraTree + KNN a multi-classification model that classifies insurance claims purposes using in-house data from MiraeAsset and presented in front of 200+ people about the business usage of these models.

Kakao Arena Competition

May.2020

Top 2%

Kakao.Corp

- Developed a model using Collaborative Filtering(CF) + KNN to recommend appropriate songs and tags to be included in each playlist.

ADDITIONAL INFORMATION

Programming Ability: Python, C, Matlab, Git, PyTorch, Tensorflow, Linux, LaTeX, R, SAS

Language Ability: Fluent in both Korean and English, Beginner in Chinese