

DAEUN LEE

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RESEARCH INTERESTS

- **Multimodal**: Image+Language/ Video+Language
- **Human-in-the-loop**: User-interactive AI
- **Robustness**: Out-of-Distribution Generalization, Faithfulness, Debiasing
- **Efficiency**: On-device learning

EDUCATION

The University of North Carolina at Chapel Hill

Incoming PhD student. Computer Science (Advisor: Mohit Bansal)

NC, United States

Aug. 2024 —

- Research Assistant Fellowship

Korea University

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

Seoul, South Korea

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 <i>Grduate Research Assistant (Supervisor: Mohit Bansal)</i> <ul style="list-style-type: none">Researched Video Generation with Faithfulness.	NC, United States <i>Aug.2024 — Current</i>
KAIST <i>Research Intern / Contract Researcher (Supervisor: Sung Ju Hwang)</i> <ul style="list-style-type: none">Created a Mixture-of-Domain-Adapter architecture for the robust Continual Test-time Adaptation in the real-world driving scenarios. [C4]	Seoul, South Korea <i>Mar.2023 — Current</i>
NAVER LABS <i>Research Intern (Mentor: Minheok Heo)</i> <ul style="list-style-type: none">Delved into domain shifts in lane detection and built a novel single-source domain generalization framework using in-house HD maps. [C3]	Jungja, South Korea <i>Jul.2022 — Dec.2022</i>
KOREA UNIVERSITY <i>Research Intern (Supervisor: Jinkyu Kim)</i> <ul style="list-style-type: none">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 <i>Jul.2021 — Dec.2022</i>

AWARDS & HONORS

Travel Grant from ICML2024 Area Chair	<i>June.2024</i>
Digital Innovation Big Data Contest <i>2nd place</i>	<i>May.2021</i> <i>Korea Enterprise Data Corp.(KED)</i>
<ul style="list-style-type: none">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 <i>5st place</i>	<i>Dec.2020</i> <i>The Federation of Korean Information Industries</i>
<ul style="list-style-type: none">Took a front-view video on a driving car, obtained 500+ images, annotated them, and trained a segmentation model.	
Financial Big Data Festival <i>1st place</i>	<i>Dec.2020</i> <i>MiraeAsset.Corp</i>
<ul style="list-style-type: none">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 <i>Top 2%</i>	<i>May.2020</i> <i>Kakao.Corp</i>
<ul style="list-style-type: none">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