Daeun Lee

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in linkedin.com/in/daeunlee00
○ daeunni.github.io

♥ RESEARCH INTERESTS

- **Post-training for Multimodal Understanding**: `self-correcting` and `test-time adaptation/scaling`.
- **Embodied Agents**: adaptive interaction and action modeling in `robotics`.

🏛 EDUCATION

The University of North Carolina at Chapel Hill　　　　　　　　　　NC, United States
Ph.D. Computer Science (Advisor: Mohit Bansal)　　　　　　　　　　　　*Aug. 2024 —*

Korea University　　　　　　　　　　　　　　　　　　　　Seoul, South Korea
B.E. Department of Statistics　　　　　　　　　　　　　　　*Mar. 2019 — Feb. 2024*

📄 PUBLICATIONS

[P4] StreamGaze: Gaze-Guided Temporal Reasoning and Proactive Understanding in Streaming Videos
Daeun Lee, Subhojyoti Mukherjee, Brano Kveton, Ryan Rossi, Viet Lai, David Seunghyun Yoon, Franck Dernoncourt, Trung Bui, Mohit Bansal.
Under review

[P3] IndustryNav: Exploring Spatial Reasoning of Embodied Agents in Dynamic Industrial Navigation
Yifan Li, Lichi Li, Anh Dao, Xinyu Zhou, Yicheng Qiao, Zheda Mai, Daeun Lee, Zichen Chen, Zhen Tan, Mohit Bansal, Yu Kong.
Under review

[P2] VideoRepair: Self-Correcting Text-to-Video Generation with Misalignment Detection and Localized Refinement
Daeun Lee, Jaehong Yoon, Jaemin Cho, Mohit Bansal.
Under review

[C5] Video-Skill-CoT: Skill-based Chain-of-Thoughts for Domain-Adaptive Video Reasoning
Daeun Lee*, Jaehong Yoon*, Jaemin Cho, Mohit Bansal.
*Empirical Methods in Natural Language Processing **(EMNLP) Findings, 2025.***

[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] HD Maps are Lane Detection Generalizers: A Novel Generative Framework for Single-Source Domain Generalization
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

🏢 RESEARCH EXPERIENCES

Adobe   CA, United States
Research Intern (Mentor: Subhojyoti Mukherjee, Branislav Kveton)   *May.2025 — Current*

UNC Chapel Hill   NC, United States
Research Assistant (Advisor: Mohit Bansal)   *Aug.2024 — Current*

KAIST   Seoul, South Korea
Research Intern / Contract Researcher (Advisor: Sung Ju Hwang)   *Mar.2023 — Aug.2024*

NAVER LABS   Jungja, South Korea
Research Intern (Mentor: Minheok Heo)   *Jul.2022 — Dec.2022*

Korea University   Seoul, South Korea
Research Intern (Advisor: Jinkyu Kim)   *Jul.2021 — Dec.2022*

📑 ACADEMIC SERVICES

Reviewer

CVPR 2022-2026, ECCV/ICCV 2022-2025, AAAI 2025, NeurIPS 2025

Invited Talks

Sep 2025. **SKKU (Sungkyunkwan University)** Google Developer Groups   .
Jan 2025. **Cisco**. *'Reliable Text-to-Video Generation'*

🏅 AWARDS/HONORS

Travel Grant from ICML 2024 Area Chair   *Jun.2024*

Digital Innovation Big Data Contest   *May.2021*
2nd place, Korea Enterprise Data Corp.(KED)

ICT Autonomous Driving Project   *Dec.2020*
5st place, The Federation of Korean Information Industries

Financial Big Data Festival   *Dec.2020*
1st place, MiraeAsset.Corp

Kakao Arena Competition   *May.2020*
Top 2%, Kakao.Corp

Outstanding Student Scholarship   *2021-2023*
Korea University

🔗 SKILLS

Programming Ability: Python, C, Matlab, Git, PyTorch, Tensorflow, Linux, LaTeX, R, SAS
Language Ability: Fluent in both Korean and English, Beginner in Chinese

✱ REFERENCES

Mohit Bansal *Professor at UNC Chapel Hill*   ✉ mbansal@cs.unc.edu

Jinkyu Kim *Professor at Korea University*   ✉ jinkyukim@korea.ac.kr

Sung Ju Hwang *Professor at KAIST*   ✉ sjhwang82@kaist.ac.kr

Yousung Park *Emeritus professor at Korea University*   ✉ yspark433@gmail.com