



# Daehee Park

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## RESEARCH INTERESTS

- **Multi-modal learning:** Multi-modal deep learning integrating visual, linguistic, and motion information.
- **AI-driven decision making:** Models integrating perception, prediction, and planning for autonomous decisions.
- **Computer vision:** Detection, tracking, and segmentation for autonomous systems.

## WORK EXPERIENCE

- **DGIST** 2025.03 – Present  
Assistant Professor, Daegu, Korea
- **Qualcomm** 2024.04 – 2024.09  
Deep Learning R&D Intern, San Diego (Remote), US
- **Naver Labs** 2021.06 – 2021.08  
Research Intern, Seongnam, Korea

## EDUCATION

- **KAIST**, Daejeon, Korea 2020.03 – 2025.02  
Ph.D. in Mechanical Engineering  
Thesis: *Data-driven Trajectory Prediction for Reliable Autonomous Driving Systems*  
Advisor: Kuk-Jin Yoon
- **KAIST**, Daejeon, Korea 2018.03 – 2020.02  
M.S. in Mechanical Engineering  
Thesis: *Removal of Reflected Virtual Images in Visual Recognition Utilizing 3D Depth Information*
- **KAIST**, Daejeon, Korea 2013.03 – 2018.02  
B.S. in Mechanical Engineering  
Double Major in Business and Technology Management

## PUBLICATIONS

- [c13] [Generative Active Learning for Long-tail Trajectory Prediction via Controllable Diffusion Model.](#)  
**Daehee Park**, Monu Surana, Pranav Desai, Ashish Mehta, Reuben M. V. John, Kuk-Jin Yoon.  
*IEEE/CVF International Conference on Computer Vision (ICCV)*, 2025.
- [c12] [Interaction-Merged Motion Planning: Effectively Leveraging Diverse Motion Datasets for Robust Planning.](#)  
Giwon Lee\*, Wooseong Jeong\*, **Daehee Park**, Jaewoo Jeong, Kuk-Jin Yoon.  
*IEEE/CVF International Conference on Computer Vision (ICCV)*, 2025. ([Highlight](#))
- [c11] [Denoising Diffusion Policy Optimization for Diffusion-based Motion Planning.](#)  
Giwon Lee\*, **Daehee Park**\*, Jaewoo Jeong\*, Kuk-Jin Yoon.  
*IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2025.
- [p1] [Self-Supervised 3D Occupancy Prediction with Temporal Consistency.](#)  
Jae-Seok Jeong, Sung-Hoon Yoon, **Daehee Park**, Kuk-Jin Yoon.  
*arXiv preprint*, 2025.
- [c10] [Multi-modal Knowledge Distillation-based Human Trajectory Forecasting.](#)  
Jaewoo Jeong, SeoHee Lee, **Daehee Park**, Giwon Lee, Kuk-Jin Yoon.  
*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2025.

- [c9] Diffusion-Guided Weakly Supervised Semantic Segmentation.  
Sung-Hoon Yoon, Hoyong Kwon\*, Jaeseok Jeong\*, **Daehee Park**, Kuk-Jin Yoon.  
*European Conference on Computer Vision (ECCV)*, 2024.
- [c8] T4P: Test-Time Training of Trajectory Prediction via Masked Autoencoder and Actor-specific Token Memory.  
**Daehee Park**, Jae-Seok Jeong, Sung-Hoon Yoon, Jaewoo Jeong, Kuk-Jin Yoon.  
*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024.
- [c7] Multi-agent Long-term 3D Human Pose Forecasting via Interaction-aware Trajectory Conditioning.  
Jaewoo Jeong\*, **Daehee Park\***, Kuk-Jin Yoon.  
*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024. (**Highlight**)
- [c6] Improving Transferability for Cross-domain Trajectory Prediction via Neural Stochastic Differential Equation.  
**Daehee Park**, Jaewoo Jeong, Kuk-Jin Yoon.  
*AAAI Conference on Artificial Intelligence (AAAI)*, 2024.
- [c5] Leveraging Future Relationship Reasoning for Vehicle Trajectory Prediction.  
**Daehee Park**, Hobin Ryu, Yunseo Yang, Jegyeong Cho, Jiwon Kim, Kuk-Jin Yoon.  
*International Conference on Learning Representations (ICLR)*, 2023.
- [c4] BIPS: Bi-modal Indoor Panorama Synthesis via Residual Depth-Aided Adversarial Learning.  
Changgyoon Oh\*, Wonjune Cho\*, Yujeong Chae\*, **Daehee Park\***, Lin Wang, Kuk-Jin Yoon.  
*European Conference on Computer Vision (ECCV)*, 2022.
- [c3] Unlocking the Potential of Ordinary Classifier: Class-specific Adversarial Erasing Framework for Weakly Supervised Semantic Segmentation.  
Hyeokjun Kweon\*, Sung-Hoon Yoon\*, Hyeonseong Kim, **Daehee Park**, Kuk-Jin Yoon.  
*IEEE/CVF International Conference on Computer Vision (ICCV)*, 2021.
- [j1, c2] Identifying Reflected Images from Object Detector in Indoor Environment Utilizing Depth Information.  
**Daehee Park**, Yong-Hwa Park.  
*IEEE Robotics and Automation Letters (RA-L) and IEEE International Conference on Robotics and Automation (ICRA)*, 2020.
- [c1] A Scanning 3D Sensor and Its Object Recognition for Autonomous Robots.  
Joon-Oh Shin, In-Gyu Jang, **Dae-Hee Park**, Yong-Hwa Park.  
*SPIE Conference on MOEMS and Miniaturized Systems XVIII*, 2019.

## PATENTS

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- Electronic device and method of identifying false image of object attributable to reflection in indoor environment thereof.  
**United States Patent**, Registered, US11282178B2.
- Dispositif électronique et procédé d'identification de fausse image ou de faux objet imputable à la réflexion dans un environnement intérieur correspondant.  
**European Patent**, Registered, EP3772701.
- 전자 장치 및 그의 실내 환경에서 반사에 의한 객체 허상을 식별하기 위한 방법.  
**Korean Patent**, Registered, KR10-2287478-0000.

## POSITIONS OF RESPONSIBILITY

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- Committee Member, R&D Planning for Culture, Sports and Tourism, Korea Creative Content Agency (KOCCA), 2026

## AWARDS

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- Winner, NVIDIA Academic Grant Program, NVIDIA, 2025.12
- Winner, Outstanding Doctoral Graduate Award (Alumni Association Award), KAIST ME, 2025.12
- Winner, Qualcomm Innovation Fellowship Korea (QIFK), 2024.12
- Research Scholarship, Samsung Advanced Institute of Technology, 2022.09–2025.02
- 1st Place, Best Paper Awards, IPIU 2022
- Outstanding Achievement Award, Academic Excellence, KAIST Department of Mechanical Engineering, 2016.09

## ACADEMIC REVIEWING & SERVICE

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- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)
- IEEE/CVF International Conference on Computer Vision (ICCV)
- European Conference on Computer Vision (ECCV)
- Conference on Neural Information Processing Systems (NeurIPS)
- International Conference on Learning Representations (ICLR)
- AAAI Conference on Artificial Intelligence (AAAI)
- IEEE International Conference on Robotics and Automation (ICRA)
- IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
- IEEE Intelligent Vehicles Symposium (IV)
- Winter Conference on Applications of Computer Vision (WACV)
- ACM International Conference on Multimedia (ACM MM)
- Pattern Recognition (PR)
- IEEE Transactions on Intelligent Vehicles (T-IV)
- IEEE Robotics and Automation Letters (RA-L)