Chunghyun Park

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RESEARCH INTERESTS

3D Perception, Geometric Deep Learning, and Embodied AI

EDUCATION

Ph.D. in Artificial Intelligence March 2022 - Feb. 2026
POSTECH (Advisor: Prof. Minsu Cho) Pohang, Republic of Korea
Dissertation: Learning 3D Visual Perception for Geometric and Semantic Generalization

M.S. in Artificial Intelligence March 2020 - Feb. 2022
POSTECH (Advisor: Prof. Jaesik Park) Pohang, Republic of Korea
Thesis: Fast Point Transformer for Large-scale 3D Scene Understanding

B.S. in Mechanical Engineering March 2014 - Feb. 2019
POSTECH Pohang, Republic of Korea

INDUSTRIAL EXPERIENCE

Research Intern | *NVIDIA Research Taiwan (Remote)* Dec. 2023 - Feb. 2025

- Working with Jaesung Choe and Chris Choy

PUBLICATIONS

All publications are available in Google Scholar. *: equal contribution

[1] **Chunghyun Park**, Seunghyeon Lee, and Minsu Cho
Affostruction: 3D Affordance Grounding with Generative Reconstruction
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2026

[2] Junha Lee*, Eunha Park*, **Chunghyun Park**, Dahyun Kang, and Minsu Cho
Affogato: Learning Open-Vocabulary Affordance Grounding with Automated Data Generation at Scale
arXiv, 2025

[3] Nahyuk Lee*, Juhong Min*, Junhong Lee, **Chunghyun Park**, and Minsu Cho
Combinative Matching for Geometric Shape Assembly
IEEE/CVF International Conference on Computer Vision (**ICCV**), 2025 (Highlight)

[4] Junha Lee*, **Chunghyun Park***, Jaesung Choe, Yu-Chiang Frank Wang, Jan Kautz, Minsu Cho, and Chris Choy
Mosaic3D: Foundation Dataset and Model for Open-Vocabulary 3D Segmentation
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2025

[5] **Chunghyun Park***, Seungwook Kim*, Jaesik Park, and Minsu Cho
Learning SO(3)-Invariant Semantic Correspondence via Local Shape Transform
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2024

[6] Seungwook Kim*, **Chunghyun Park***, Yoonwoo Jeong, Jaesik Park, and Minsu Cho
Stable and Consistent Prediction of 3D Characteristic Orientation via Invariant Residual Learning
International Conference on Machine Learning (**ICML**), 2023

[7] Seungwook Kim*, Yoonwoo Jeong*, **Chunghyun Park***, Jaesik Park, and Minsu Cho
SeLCA: Self-Supervised Learning of Canonical Axis
NeurIPS Workshop on Symmetry and Geometry in Neural Representations (**NeurReps**), 2022

[8] Jaesung Choe*, **Chunghyun Park***, Francois Rameau, Jaesik Park, and In So Kweon
PointMixer: MLP-Mixer for Point Cloud Understanding
European Conference on Computer Vision (**ECCV**), 2022

[9] **Chunghyun Park**, Yoonwoo Jeong, Minsu Cho, and Jaesik Park
Fast Point Transformer
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022

[10] Y. Hwang*, H. H. Lee*, **C. Park**, B. A. Tama, J. S. Kim, D. Y. Cheung, W. C. Chung, Y. Cho, K. Lee, M. Choi, and S. Lee
Improved classification and localization approach to small bowel capsule endoscopy using convolutional neural network
Digestive Endoscopy, 2021 (Impact Factor: 7.559)

ACADEMIC SERVICES

Journal Reviewer: TPAMI, IJCV

Conference Reviewer: ICLR, NeurIPS, ICCV, CVPR, ECCV

HONORS & AWARDS

Best Paper Award (Bronze Prize) | *38th Workshop on Image Processing and Image Understanding* Feb. 2026

POSTECHIAN Fellowship (Innovation) | *POSTECH* Jan. 2026

- Awarded to outstanding graduate students of the semester.

Outstanding Reviewer | *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)* Jun. 2024

- Awarded to the top 2% among 9,872 reviewers.

BK21 Best Paper Award (Grand Prize) | *POSTECH Graduate School of Artificial Intelligence (GSAI)* Feb. 2023

- Awarded to the year's best paper of POSTECH GSAI.

Qualcomm Innovation Fellowship Korea | *Qualcomm Korea Corp.* Nov. 2022

- Awarded to graduate students in South Korea who published one of the year's best 20 papers on AI.

Samsung Humantech Paper Award (Silver Prize) | *Samsung Electronics Co., Ltd.* Feb. 2022

- Awarded to the year's most prominent papers of South Korea in 10 fields.

INVITED TALKS

Spotlight Presentation | *Korea AI Summit* Nov. 2023

- Stable and Consistent Prediction of 3D Characteristic Orientation via Invariant Residual Learning