Chunghyun Park

p0125ch@postech.ac.kr ● LinkedIn (Chunghyun Park) ● GitHub (chrockey) ● chrockey.github.io

RESEARCH INTERESTS

3D Perception, 3D Reconstruction, and Geometric Deep Learning

EDUCATION

Ph.D. in Artificial Intelligence   March 2022 - Present
POSTECH (Advisor: Prof. Minsu Cho)   Pohang, Republic of Korea
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] 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

[2] 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)

[3] 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

[4] **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

[5] 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

[6] 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

[7] 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

[8] **Chunghyun Park**, Yoonwoo Jeong, Minsu Cho, and Jaesik Park

Fast Point Transformer

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

[9] 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

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