

Chunghyun Park

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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
<i>Thesis: Fast Point Transformer for Large-scale 3D Scene Understanding</i>	
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*, **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
- [2] **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
- [3] 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
- [4] 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
- [5] 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
- [6] **Chunghyun Park**, Yoonwoo Jeong, Minsu Cho, and Jaesik Park
Fast Point Transformer
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022
- [7] Hwang*, Lee*, **Park**, Tama, Kim, Cheung, Chung, Cho, Lee, Choi, and 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) <i>POSTECH Graduate School of Artificial Intelligence (GSAI)</i>	Feb. 2023
<ul style="list-style-type: none"> Awarded to the year's best paper of POSTECH GSAI. 	
Qualcomm Innovation Fellowship Korea <i>Qualcomm Korea Corp.</i>	Nov. 2022
<ul style="list-style-type: none"> 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) <i>Samsung Electronics Co., Ltd.</i>	Feb. 2022
<ul style="list-style-type: none"> Awarded to the year's most prominent papers of South Korea in 10 fields. 	

INVITED TALKS

Spotlight Presentation <i>Korea AI Summit</i>	Nov. 2023
<ul style="list-style-type: none"> Stable and Consistent Prediction of 3D Characteristic Orientation via Invariant Residual Learning 	