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
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 - Present

- Mentor: Jaesung Choe

PUBLICATIONS

All publications are available in Google Scholar.

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

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

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

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

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

[6] Hwang*, Lee*, **Chunghyun Park**, Tama, Kim, Cheung, Chung, Cho, Lee, Choi, and Lee (*equal contribution)
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 (2024), NeurIPS (2023), ICCV (2023), CVPR (2022-2024), ECCV (2022)

HONORS & AWARDS

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