

Junhyeong Cho

CS Ph.D. Student, Cornell University

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🌐 [jhcho99.github.io](https://github.com/jhcho99)

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🎓 [NBPCCH-wAAAAAJ](#)

Research Interests

Multimodal Spatial Intelligence, 3D Computer Vision, Visual Localization

Education

Ph.D. in Computer Science

Cornell University, New York, USA

Aug. 2025 – Present

▪ Advisor: [Prof. Hadar Averbuch-Elor](#)

B.S. in Computer Science and Engineering

POSTECH, Pohang, South Korea

Feb. 2018 – Feb. 2022

▪ Summa Cum Laude | Rank: 2nd in the department

Study Abroad Programs

Stanford University, California, USA

Jun. 2021 – Aug. 2021

University of Illinois Urbana-Champaign, Illinois, USA

Jan. 2021 – May 2021

University of California, Berkeley, California, USA

Aug. 2018 – Dec. 2018

Publications

[P1] SceneAligner: 3D-Grounded Floorplan Localization in the Wild

Junhyeong Cho, Ruojin Cai, Hadar Averbuch-Elor

arXiv:2605.22581, 2026 | Preprint | [\[Paper\]](#) [\[Project Page\]](#)

[C5] Robust 3D Shape Reconstruction in Zero-Shot from a Single Image in the Wild

Junhyeong Cho, Kim Youwang, Hunmin Yang, Tae-Hyun Oh

IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2025 | CVPR 2025 | [\[Paper\]](#) [\[Project Page\]](#)

[C4] PromptStyler: Prompt-driven Style Generation for Source-free Domain Generalization

Junhyeong Cho, Gilhyun Nam, Sungyeon Kim, Hunmin Yang, Suha Kwak

IEEE/CVF International Conference on Computer Vision, 2023 | ICCV 2023 | [\[Paper\]](#) [\[Project Page\]](#)

[C3] Cross-Attention of Disentangled Modalities for 3D Human Mesh Recovery with Transformers

Junhyeong Cho, Kim Youwang, Tae-Hyun Oh

European Conference on Computer Vision, 2022 | ECCV 2022 | [\[Paper\]](#) [\[Project Page\]](#)

[C2] Collaborative Transformers for Grounded Situation Recognition

Junhyeong Cho, Youngseok Yoon, Suha Kwak

IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2022 | CVPR 2022 | [\[Paper\]](#) [\[Project Page\]](#)

[C1] Grounded Situation Recognition with Transformers

Junhyeong Cho*, Youngseok Yoon*, Hyeonjun Lee*, Suha Kwak (*equal contribution)

British Machine Vision Conference, 2021 | BMVC 2021 | [\[Paper\]](#) [\[Project Page\]](#)

Research Experience

Visual Artificial Intelligence Lab, Cornell University, New York, USA

Aug. 2025 – Present

Graduate Student Researcher | Advisor: [Prof. Hadar Averbuch-Elor](#)

▪ [\[P1\] Preprint](#) · Floorplan-based localization in the wild

◦ Reformulated floorplan localization as 3D reconstruction and cross-modal alignment

Defense AI Center, Agency for Defense Development, Daejeon, South Korea

Jun. 2022 – May 2025

Research Officer (Mandatory Military Service)

▪ [\[C5\] CVPR 2025](#) · Robust 3D reconstruction of objects in the wild

◦ Designed an occlusion-aware 3D reconstruction model and created its training dataset

▪ [\[C4\] ICCV 2023](#) · Robust recognition of objects across domains

◦ Devised a self-supervised learning method to refine vision-language models for generalization

Advanced Machine Intelligence Lab, POSTECH, Pohang, South Korea

Jan. 2022 – Mar. 2022

Research Intern | Advisor: [Prof. Tae-Hyun Oh](#)

- [\[C3\] ECCV 2022](#) · Efficient 3D reconstruction of human body and hand
 - Exploited human shape priors to develop efficient transformer models for 3D reconstruction

Computer Vision Lab, POSTECH, Pohang, South Korea

Jul. 2020 – Dec. 2021

Research Intern | Advisor: [Prof. Suha Kwak](#)

- [\[C2\] CVPR 2022](#), [\[C1\] BMVC 2021](#) · Structured visual recognition of real-world situations
 - Incorporated linguistic priors into transformer models for structured recognition

Samsung Research, Samsung Electronics, Seoul, South Korea

Jan. 2020 – Feb. 2020

Research Intern | Manager: Juyoung Lee

- Hand gesture recognition from depth videos
 - Developed Bi-LSTM models to recognize hand gestures for VR applications

Honors and Awards

CVPR Outstanding Reviewer, IEEE/CVF Conference on Computer Vision and Pattern Recognition

Jun. 2025

- Recognized as one of the top 6% among 12,593 reviewers at CVPR 2025

ICCV Outstanding Reviewer, IEEE/CVF International Conference on Computer Vision

Oct. 2023

- Recognized as one of the top 2% among 6,990 reviewers at ICCV 2023

Best Research Project Award, Department of Computer Science and Engineering, POSTECH

Jan. 2022

- Ranked first among 48 undergraduate research projects in the department

Minister's Award, Ministry of Science and ICT

Jan. 2021

- Ranked first among 5 funded research projects

University Representative of POSTECH, Young Engineers Honor Society

Jan. 2021 – Dec. 2021

- Served as the university's representative and organized events

Young Engineers Honor Society Member, The National Academy of Engineering of Korea

Jul. 2019 – Feb. 2022

- Selected as one of 3 POSTECH students per semiannual round

Scholarships

KFAS Undergraduate Student Scholarship, Korea Foundation for Advanced Studies

Sep. 2020 – Feb. 2022

- Awarded a scholarship of \$5,000 covering academic and living expenses

National Scholarship for Science and Engineering, Korea Student Aid Foundation

Mar. 2020 – Feb. 2022

- Awarded a full scholarship of \$18,000 covering tuition and living expenses

National Scholarship for ICT Program, Ministry of Science and ICT

Feb. 2018 – Feb. 2020

- Awarded a full scholarship of \$40,000 covering tuition, living expenses, and study abroad

Professional Service

Area Chair

CVPR (2027)

Conference Reviewer

CVPR (2025, 2024, 2023), ICCV (2025, 2023), ECCV (2026, 2024), NeurIPS (2026, 2025, 2024, 2023), ICLR (2027), AAAI (2024), ACCV (2024), BMVC (2023)

Journal Reviewer

PR (2025), IJCV (2024), TIP (2024), TMM (2024), TCSVT (2024), TVCJ (2023)

Skills

Programming Languages | Python, C, C++, Java, MATLAB

Research Tools | PyTorch, NumPy, OpenCV, OpenGL, Open3D, Blender, Docker, Linux, Git