Hanbyel Cho

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#### **Work Experience**

- Meta Reality Labs, XR Input Perception Research Scientist Intern (Manager: Cem Keskin)
- Meta Reality Labs, Codec Avatars Lab Research Scientist Intern (Manager: Wei Pu)

Redmond, WA, USA June 2024 - Dec. 2024

**Pittsburgh, PA, USA** Dec. 2023 - Feb. 2024

### **Publications**

- Efficient Dynamic Scene Editing via 4D Gaussian-based Static-Dynamic Separation Joohyun Kwon\*, Hanbyel Cho\*, Junmo Kim (\*Equal contribution) IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025
- Foreseeing Reconstruction Quality of Gradient Inversion: An Optimization Perspective Hyeong Gwon Hong, Yooshin Cho, Hanbyel Cho, Jaesung Ahn, Junmo Kim The 38th Annual AAAI Conference on Artificial Intelligence (AAAI), 2024
- Generative Approach for Probabilistic Human Mesh Recovery using Diffusion Models Hanbyel Cho, Junmo Kim IEEE/CVF International Conference on Computer Vision (ICCV), 2023, CV4Metaverse Workshop
- Implicit 3D Human Mesh Recovery using Consistency with Pose and Shape from Unseen-view Hanbyel Cho, Yooshin Cho, Jaesung Ahn, Junmo Kim IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023
- Video Inference for Human Mesh Recovery with Vision Transformer Hanbyel Cho, Jaesung Ahn, Yooshin Cho, Junmo Kim IEEE International Conference on Automatic Face and Gesture Recognition (IEEE FG), 2023
- Localization using Multi-Focal Spatial Attention for Masked Face Recognition Yooshin Cho, Hanbyel Cho, Hyeong Gwon Hong, Jaesung Ahn, Dongmin Cho, Junmo Kim IEEE International Conference on Automatic Face and Gesture Recognition (IEEE FG), 2023
- Rethinking Efficacy of Softmax for Lightweight Non-Local Neural Networks Yooshin Cho, Youngsoo Kim, **Hanbyel Cho**, Jaesung Ahn, Hyeong Gwon Hong, Junmo Kim *IEEE International Conference in Image Processing (ICIP)*, 2022
- Camera Distortion-aware 3D Human Pose Estimation in Video with Optimization-based Meta-Learning Hanbyel Cho, Yooshin Cho, Jaemyung Yu, Junmo Kim IEEE/CVF International Conference on Computer Vision (ICCV), 2021
- Improving Generalization of Batch Whitening by Convolutional Unit Optimization Yooshin Cho, Hanbyel Cho, Youngsoo Kim, Junmo Kim IEEE/CVF International Conference on Computer Vision (ICCV), 2021

### **Education**

- Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Korea *PhD in Electrical Engineering* (Advisor: Prof. Junmo Kim) Mar. 2020 - Feb. 2025 Dissertation: High-Fidelity Human Body Model Reconstruction in Unconstrained Situations
- Korea Advanced Institute of Science and Technology (KAIST)
  *MS in Electrical Engineering* (Advisor: Prof. Junmo Kim)
  Daejeon, Korea
  Mar. 2018 Feb. 2020
  Thesis: Improving Performance of Face Super-Resolution with Stochastic Attributes Modeling
- Korea Advanced Institute of Science and Technology (KAIST) BS in Electrical Engineering

Daejeon, Korea Mar. 2013 - Feb. 2018

#### Skills

- Computer Vision: Foundation Models, Vision Language Models, Diffusion Models, ConvNets, Transformers, Mamba, Image Classification, Object Detection, Image Segmentation, 3D Object Recognition, 3D Human Pose Estimation, Egocentric Vision, Self-supervised Learning, Camera Models.
- Programming: PyTorch, TensorFlow, Python, Numpy, MATLAB, C, LaTeX

# **Academic Service**

- Conference Reviewer: CVPR, ICCV, ECCV, NeurIPS, ACM-MM, ACCV
- Journal Reviewer: TIP, JVCI

# **Awards & Scholarships**

0	Finalist, Qualcomm Innovation Fellowship Korea Hosted by Qualcomm Korea, Inc.	Nov. 2023
	Recognized for the first-authored paper titled: Implicit 3D Human Mesh Recovery using Consister and Shape from Unseen-view (CVPR, 2023)	icy with Pose
0	Excellent Presentation Award, CARAI Academic Workshop Hosted by Center for Applied Research in Artificial Intelligence (CARAI)	Oct. 2023
0	Finalist, Qualcomm Innovation Fellowship Korea Hosted by Qualcomm Korea, Inc.	Nov. 2022
	ognized for the first-authored paper titled: Camera Distortion-aware 3D Human Pose Estimation in Video with imization-based Meta-Learning (ICCV, 2021)	
0	Governmental Scholarship for KAIST Graduate Students	2018 - 2024
0	Governmental Scholarship for KAIST Undergraduate Students	2013 - 2017

# References

- o Intern Manager: Cem Keskin, Principal Scientist, Meta
- o Intern Manager: Wei Pu, Engineering Manager, Meta
- o MS/PhD Advisor: Junmo Kim, Professor, School of Electrical Engineering, KAIST