

# Kim Youwang

Last update: 2026.02.18

## Curriculum Vitae

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## EDUCATION

<b>Pohang University of Science and Technology, POSTECH</b> M.S. & Ph.D., Electrical Engineering (Advisors: Tae-Hyun Oh, Kwang In Kim)	Pohang, Korea 2027 (Expected)
<b>Pohang University of Science and Technology, POSTECH</b> B.S., Electrical Engineering	Pohang, Korea 2020

## RESEARCH INTERESTS

**Goal** – Build photorealistic & social world simulations for next-gen. physical AI & global communication.  
**Keywords** – 3D/4D Digital Twins, Real-time Graphics, Computer Vision, Generative AI

## EXPERIENCE

<b>(Incoming) Research Scientist Intern, Meta</b>  Meta Codec Avatars Lab (Manager: Chen Cao)	Pittsburgh, PA Jun. 2026 – Nov. 2026
<b>Research Scientist Intern, NVIDIA</b>  Real-Time Graphics Research (Manager: Aaron Lefohn)	Remote, Korea Mar. 2026 – Jun. 2026
<b>Research Scientist Intern, Meta</b>  Meta Codec Avatars Lab (Managers: Yaser Sheikh, Chen Cao)	Pittsburgh, PA Oct. 2024 – Mar. 2025
<b>Visiting Ph.D. Student, Univ. of Tübingen</b> Real Virtual Humans group (Advisor: Gerard Pons-Moll)	Tübingen, Germany Oct. 2023 – Mar. 2024

## AWARDS AND HONORS

<b>Best Poster Award, BMVC</b> “MeTTA: Single-View to 3D Textured Mesh Reconstruction with Test-Time Adaptation”	2024
<b>Excellence Prize, Electronics Times ICT Paper Awards</b> “Feed-Forward Photorealistic Style Transfer for Large-Scale 3D Neural Radiance Field”	2024
<b>Best Poster Award, POSTECH-KAIST Joint ML Workshop</b> “Paint-it: Text-to-Texture Synthesis via Deep Convolutional Texture Map Optimization and ...”	2024
<b>Grand Prize (Minister’s Award, \$12K), Electronics Times ICT Paper Awards</b> “CLIP-Actor: Text-Driven Recommendation and Stylization for Generating Virtual Human Avatars”	2023
<b>Outstanding Reviewer Award, ICCV</b> Top 1.89% reviewer among 6990 reviewers	2023
<b>Winner (\$4,000), Qualcomm Innovation Fellowship Korea (QIFK)</b> “CLIP-Actor: Text-Driven Recommendation and Stylization for Animating Human Meshes”	2022
<b>International Computer Vision Summer School (ICVSS)</b> “Unified 3D Mesh Recovery of Humans and Animals by Learning Animal Exercise”	2022

## PUBLICATIONS

### Abbreviations

TPAMI	<i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i>
IJCV	<i>International Journal of Computer Vision</i>
TMLR	<i>Transactions on Machine Learning Research</i>
CVPR	<i>IEEE Conference on Computer Vision and Pattern Recognition</i>
ECCV	<i>European Conference on Computer Vision</i>
ICCV	<i>IEEE International Conference on Computer Vision</i>
ICLR	<i>International Conference on Learning Representation</i>
AAAI	<i>AAAI Conference on Artificial Intelligence</i>
BMVC	<i>British Machine Vision Conference</i>

### Journal Articles

- J04. **Kim Youwang\***, T. Byun\*, K. Ji-Yeon, S. Choi, T.-H. Oh, "CLIP-Actor-X: Text-driven 4D Human Avatar Generation via Cross-modal Synthesis-through-Optimization," *TPAMI*, 2026 (*Accepted*).
- J03. G. Kim, **Kim Youwang**, L. Hyoseok, T.-H. Oh, "FPGS: Feed-Forward Semantic-aware Photorealistic Style Transfer of Large-Scale Gaussian Splatting," *IJCV*, 2026 (*Accepted*).  
([Excellence Prize at the Electronics Times ICT Paper Awards 2024](#))
- J02. **Kim Youwang**, L. Hyun\*, K. Sung-Bin\*, S.-K. Nam, J.-H. Joo, T.-H. Oh, "A Large-Scale 3D Face Mesh Video Dataset via Neural Re-parameterized Optimization," *TMLR*, 2024.  
([Top 5.0% TMLR papers in 2 years – Transferred to ICLR 2025](#))
- J01. D. H. Ryou, **Kim Youwang**, T.-H. Oh, "Multi-stage Adaptive Rank Statistic Pruning for Lightweight Human 3D Mesh Recovery Model," *The Visual Computer Journal (TVCJ)*, Springer, 2023

### Conference Papers (acceptance rates typically 3%~25%)

- C12. A paper on "Feed-forward monocular 3D avatar generation", *submitted*.
- C11. A paper on "Efficient monocular 3D avatar generation", *submitted*.
- C10. A paper on "Vision-based robot state estimation", *submitted*.
- C09. **Kim Youwang**, L. Hyoseok, G. Pons-Moll, T.-H. Oh, "Dress-up: Generating Animatable Clothed 3D Humans via Latent Modeling of 3D Gaussian Texture Maps," *ICCV Workshop on Computer Vision for Fashion, Art, and Design*, 2025.  
([Oral presentation](#))
- C08. J. Cho, **Kim Youwang**, H. M. Yang, T.-H. Oh, "Robust 3D Shape Reconstruction in Zero-Shot from a Single Image in the Wild," *CVPR*, 2025.
- C07. **Kim Youwang**, L. Hyun\*, K. Sung-Bin\*, S.-K. Nam, J.-H. Joo, T.-H. Oh, "A Large-Scale 3D Face Mesh Video Dataset via Neural Re-parameterized Optimization," *ICLR*, 2025.  
([Invited as a poster presentation – Top 5.0% TMLR papers in 2 years invited](#))
- C06. K. Yu-Ji, H. Ha, **Kim Youwang**, J. Surh, H. Ha, T.-H. Oh, "MeTTA: Single-View to 3D Textured Mesh Reconstruction with Test-Time Adaptation," *BMVC*, 2024.  
([Best Poster Award at BMVC 2024](#))
- C05. **Kim Youwang**, T.-H. Oh, G. Pons-Moll, "Paint-it: Text-to-Texture Synthesis via Deep Convolutional Texture Map Optimization and Physically-Based Rendering," *CVPR*, 2024.  
([Best Poster Award at POSTECH-KAIST joint ML workshop 2024](#))
- C04. G. Kim, **Kim Youwang**, T.-H. Oh, "Feed-Forward Photorealistic Style Transfer for Large-Scale 3D Neural Radiance Field," *AAAI*, 2024.

- C03. **Kim Youwang\***, K. Ji-Yeon\*, T.-H. Oh, "CLIP-Actor: Text-Driven Recommendation and Stylization for Animating Human Meshes," *ECCV*, 2022.  
([Winner of the Electronics Times ICT Paper Awards 2023](#), [Winner of the Qualcomm Innovation Fellowship Korea, 2022](#))
- C02. J. Cho, **Kim Youwang**, T.-H. Oh, "Cross-Attention of Disentangled Modalities for 3D Human Mesh Recovery with Transformers" *ECCV*, 2022.
- C01. **Kim Youwang**, K. Ji-Yeon, K. Joo, T.-H. Oh, "Unified 3D Mesh Recovery of Humans and Animals by Learning Animal Exercise," *BMVC*, 2021.  
([Invited to ICVSS 2022](#))

## PATENT

- (**US 20240273798A1**) Text-driven motion recommendation and neural mesh stylization system and a method for producing human mesh animation using the same
- (**KR 10-2886014**) Method and apparatus for motion animating and mesh stylization using text-driven motion recommendation
- (**KR 10-2459293**) Method and apparatus for generating mesh model of human or quadrupeds
- (**KR 10-2416218**) Method and apparatus for obtaining segmentation of object included in image frame

## MENTORING EXPERIENCE

### Primary mentor for 2 Graduate Juniors & 7 Undergraduate Interns

4 mentees' projects led to **top-tier publications** (IJCV'26, CVPR'25, AAAI'24, ECCV'22, TVCJ'23)  
Mentored on problem formulation, method design, implementation, and paper writing

## PROFESSIONAL ACTIVITIES

### Reviewer for Journals

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) – 2024, 2025  
ACM TOG / SIGGRAPH – 2026  
ACM TOG / SIGGRAPH ASIA – 2024  
International Journal of Computer Vision (IJCV) – 2024, 2025  
Transactions on Machine Learning Research (TMLR) – 2025  
IEEE Transactions on Multimedia (TMM) – 2023

### Reviewer for Conference Papers

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) – 2024, 2025  
IEEE/CVF International Conference on Computer Vision (ICCV) – 2023 ([Outstanding Reviewer](#)), 2025  
European Conference on Computer Vision (ECCV) – 2024, 2026  
Conference on Neural Information Processing Systems (NeurIPS) – 2024, 2025  
IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) – 2026  
British Machine Vision Conference (BMVC) – 2024

## REFERENCE

**Tae-Hyun Oh**, Associate Professor, KAIST, Korea  
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**Kyungdon Joo**, Associate Professor, UNIST, Korea  
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