Junyoung Hong

Contact Information

E-mail: junyounghong@yonsei.ac.kr
Homepage: https://shamanneo.github.io

Research Interests

3D Vision / Deep Learning
Neural Rendering, Monocular 3D/4D reconstruction

Education

Ph.D. in Artificial Intelligence, **Yonsei University**, Seoul, Korea — Sep 2025 - Current

B.S. in Artificial Intelligence, **Yong In University**, Gyeonggi-do, Korea — Mar 2021 - Aug 2025

Research Experience

Computational Intelligence & Photography Lab, Seoul, Korea — Jan 2025 - Current
(Graduate Research Assistant)
- Advisor: Prof. Seon Joo Kim
- 3D Vision

Machine Intelligence Lab, Gyeonggi-do, Korea — Mar 2022 - Dec 2024
(Undergraduate Research Assistant)
- Advisor: Prof. Kyungjae Lee
- Image Segmentation

Selected Publications

Junyoung Hong, Hyeri Yang, Ye Ju Kim, Haerim Kim, Shinwoong Kim, Euna Shim, Kyungjae Lee, "D2FP: Learning Implicit Prior for Human Parsing". In ***WACV***. 2025.

Junyoung Hong, Kyungjae Lee "Generalized On-Device AI Framework for Semantic Segmentation ". In ***KIECS***. 2025.

Junyoung Hong, Hyeri Yang, Ye Ju Kim, Shinwoong Kim, Kyungjae Lee "Patch Regularization in Visual State Space Model". In ***ITC-CSCC***. 2025.

Preprints

Subin Jeon, In Cho, **Junyoung Hong**, Woong Oh Cho, Seon Joo Kim, "Unsupervised Monocular 3D Keypoint Discovery from Multi-View Diffusion Priors". 2026.

Skills

Programming Languages C/C++, Python
Tools PyTorch, Git, Docker, LaTeX

Projects

Development of Real·Virtual Environmental Analysis Based Adaptive Interaction Technology — Mar 2022 - Dec 2024
ETRI grant funded by ICT RD program of MSIT/IITP, Yong In University
- Development of Instance Segmentation Method for Mobile Devices
- Development of Dynamic Novel View Synthesis Method for Expressive 3D Human Avatar

Awards and Honors

Dean's Outstanding Research Scholarship, Yong In University — Nov 2024

Teaching Experience

Yonsei University, Seoul, Korea
- TA of Object Oriented Programming (Fall 2021, Fall 2022)