

Junyoung Hong

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EDUCATION

Yong In University

Mar 2022 - Present

B.S. in School of Artificial Intelligence

Anticipated Graduation Date: 02/21

GPA: 3.96/4.3 (Major GPA: 4.15/4.3)

RESEARCH INTERESTS

3D Computer Vision

– Novel View Synthesis (3D Gaussian Splatting, NeRF)

Image Recognition and Understanding

– Segmentation

EXPERIENCE

Undergraduate Intern / Lab Manager

Mar 2022 - Present / Jan 2024 - Present

Machine Intelligence Lab. supervised by Prof. Kyungjae Lee, Yong In University

Researcher / Project Leader

Sep 2022 - Present

Development of Instance Segmentation Method for Mobile Devices

Development of Real-Virtual Environmental Analysis Based Adaptive Interaction Technology

PUBLICATIONS

D2FP: Learning Implicit Prior for Human Parsing

Junyoung Hong, Hyeri Yang, Ye Ju Kim, Haerim Kim, Shinwoong Kim, Euna Shim, Kyungjae Lee

IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2025

Generalized On-Device AI Framework for Semantic Segmentation

Junyoung Hong, Kyungjae Lee

Journal of the Korea Institute of Electronic Communication Sciences (KIECS), 2024

Patch Regularization in Visual State Space Model

Junyoung Hong, Hyeri Yang, Ye Ju Kim, Shinwoong Kim, Kyungjae Lee

International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC), 2024

A Screen of Slide Detection Method Using Deep Learning-Based Segmentation and Hough Transform

Junyoung Hong*, Sunguk Jung*, Yongwoo Lee, Hyeonbeom Heo, Hyeri Yang, Hayeon Kim, Kyungjae Lee (* equally contributed)

International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC), 2022

Light Awareness Network for Shadow Detection

Ye Ju Kim, Junyoung Hong, Hyeonbeom Heo, Hyeri Yang, Soyeon Kim, Kyungjae Lee

International Conference of Next Generation Convergence Technology (ICNGCT), 2023

Selective Style Gaussian: Enabling Localized Style Transfer in 3D Scenes

Hyeri Yang, Hyeonbeom Heo, Junyoung Hong, Ye Ju Kim, Kyungjae Lee

International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC), 2024

PROJECTS

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|--|---------------------|
| Development of Instance Segmentation Method for Mobile Devices | Sep 2022 - Mar 2023 |
| Electronics and Telecommunications Research Institute (ETRI) | |
| Researcher | |
| Development of Real-Virtual Environmental Analysis Based Adaptive Interaction Technology | Mar 2023 - Present |
| Electronics and Telecommunications Research Institute (ETRI) | |
| Project Leader | |

SKILLS

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|---|--|
| Programming Language | C/C++, Python |
| Deep Learning Framework | PyTorch |
| Image Processing Library | OpenCV |
| Windows Desktop Application Development | Win32 API, Active Template Library (ATL) |
| Development Tools | Git, Docker |