

Gahye Lee

Ph.D. student, Computer Graphics Laboratory, POSTECH

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Education

Ph.D. in Computer Science and Engineering, POSTECH (expected 2027) Sep 2022 – present

Advisor: Prof. Seungyong Lee, Computer Graphics Laboratory

M.S. in Computer Science and Engineering, Kyung Hee University Sep 2017 – Feb 2020

Advisor: Prof. Seungkyu Lee, Perception and Computer Vision Lab

B.S. in Computer Science and Engineering, Kyung Hee University Mar 2013 – Aug 2017

Work Experience

Research Intern, Korea Institute of Science and Technology (KIST) May 2020 – Feb 2022

3D human shape reconstruction from a single image or monocular video

Research Intern, AIRLAB, Hyundai Motor Company Jul – Sep 2019

Deep-learning-based anomaly detection

Publications

1. **Camera Splatting for Continuous View Optimization**

Gahye Lee, Hyomin Kim, Gwangjin Ju, Joeeun Son, Hyejeong Yoon, Seungyong Lee
Computer Graphics Forum (Proc. Pacific Graphics 2026)

2. **StructureGS: Structure-aware Gaussian Splatting for Articulated Object Reconstruction**

Gahye Lee, Gyoonsoo Kim, Wonjong Jang, Joeeun Son, Seungyong Lee
ECCV 2026

3. **Metric-Aware 3DGS Pruning via Differentiable Parameter Editing**

Gwangjin Ju, Wonjong Jang, Gahye Lee, Yoonha Hwang, Seungyong Lee
SIGGRAPH Asia 2026

4. **Deep Polycuboid Fitting for Compact 3D Representation of Indoor Scenes**

Gahye Lee, Hyejeong Yoon, Jungeon Kim, Seungyong Lee
3DV 2025

5. **GAN with Autoencoder and Importance Sampling**

Gahye Lee, Seungkyu Lee
SIGGRAPH Asia Posters, 2018

6. **Hunting Out Graphic Images from Real Images using Recurrent Neural Network and Extended Principal Color Components**

Gahye Lee, Seungkyu Lee
SIGGRAPH Asia Posters, 2018

Patents

Deep-Learning-Based Part Labeling for Cylinder Registration filed Jan 2025

Korean patent application, with POSCO DX

Awards

Excellence Prize (2nd place), Korea Computer Congress (KCC) 2016

Honorable Mention, Korea Computer Congress (KCC) 2017