

# Hwanhee Jung

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## EDUCATION

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### Korea University

Mar 2024 - Feb 2029 (expected)

*Ph.D. in Artificial Intelligence, Advisor: Prof. Sangpil Kim*

*Seoul, South Korea*

- GPA: 4.30 / 4.5

### Sangmyung University

Mar 2020 - Feb 2024

*B.S. in Information and Communication Engineering*

*Cheonan, South Korea*

- GPA: 4.23 / 4.5

## EXPERIENCE

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### Computer Vision Lab, Korea University

Jul 2023 - Present

*Ph.D. Researcher (prev. Research Intern), Advisor: Prof. Sangpil Kim*

*Seoul, South Korea*

- 3D Human-Object Interaction Synthesis [P1]  
*In collaboration with Prof. Qixing Huang (UT Austin) and Dr. Giljoo Nam (Meta Reality Labs)*
- 3D Scene Reconstruction [P3]  
*In collaboration with Dr. Innfarn Yoo and Andreas Lugmayr (Google)*
- 3D Shape Generation & Articulation Reconstruction [P2, P4]  
*In collaboration with Prof. Qixing Huang (UT Austin)*
- 3D Instance Segmentation [P5, P6]  
*In collaboration with Dr. Giljoo Nam (Meta Reality Labs) and Prof. Jungseock Joo (UCLA)*

### Artificial Intelligence Lab, Sangmyung University

Dec 2022 - Jun 2023

*Undergraduate Researcher & Teaching Assistant, Advisor: Prof. Minsuk Kim*

*Cheonan, South Korea*

- Video Anomaly Detection for Surveillance [P7]
- Generative modeling: synthetic vibration data & logo-style image generation (GANs)
- Teaching Assistant: Machine Learning (PBL)

## PUBLICATIONS

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- [P1] **Hwanhee Jung**, Seunggwon Lee, Jeongyoon Yoon, SeungHyeon Kim, Giljoo Nam, Qixing Huang, and Sangpil Kim. “Decoupled Generative Modeling for Human-Object Interaction Synthesis.” *Conference on Computer Vision and Pattern Recognition(CVPR)*, 2026.
- [P2] **Hwanhee Jung**, Seunggwon Lee, Jeongyoon Yoon, Qixing Huang, and Sangpil Kim. “Single Image-Based Gaussian Splatting for 3D Reconstruction of Movable Articulated Objects.” *Advanced Engineering Informatics (AEI, JCR 2%)*, 2025.
- [P3] **Hwanhee Jung\***, Wonseok Roh\*, Jong Wook Kim, Seunggwon Lee, Innfarn Yoo, Andreas Lugmayr, Seunggeun Chi, Karthik Ramani, and Sangpil Kim. “CATSplat: Context-Aware Transformer with Spatial Guidance for Generalizable 3D Gaussian Splatting from A Single-View Image.” *International Conference on Computer Vision(ICCV)*, 2025.

- [P4] Seungwan Lee, **Hwanhee Jung**, Byoungsoo Koh, Qixing Huang, Sangho Yoon, and Sangpil Kim. “PASTA: Part-Aware Sketch-to-3D Shape Generation with Text-Aligned Prior.” *International Conference on Computer Vision (ICCV)*, 2025.
- [P5] Wonseok Roh, **Hwanhee Jung**, Giljoo Nam, Dongin Lee, Hyeongcheol Park, Sang Ho Yoon, Jungseock Joo, and Sangpil Kim. “Insightful Instance Features for 3D Instance Segmentation.” *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2025.
- [P6] Wonseok Roh, **Hwanhee Jung**, Giljoo Nam, Jinseop Yeom, Hyunje Park, Sang Ho Yoon, and Sangpil Kim. “Edge-Aware 3D Instance Segmentation Network with Intelligent Semantic Prior.” *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024.
- [P7] Jaehyeok Jeong, **Hwanhee Jung**, Yonghoon Choi, Seonghee Park, and Minsuk Kim. “Intelligent Complementary Multi-Modal Fusion for Anomaly Surveillance and Security System.” *Sensors* 23(22), 2023.

## RESEARCH INTERESTS

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- 3D Computer Vision
- 3D Human Motion & Human-Object Interaction
- 3D Understanding and Reconstruction
- Autonomous Driving
- Generative AI
- Anomaly Detection Algorithms

## AWARDS AND HONORS

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- Secondary Header Scholarship, Sangmyung University (Aug 2020 - Jul 2021)
- Scholarship for Excellence in Multiple Major, Sangmyung University (Aug 2021)
- National Science & Technology Scholarship, Korea Student Aid Foundation (Feb 2022 - Aug 2023)
- Silver Award, 54th KIEE Summer Conference (Jul 2023)
- 2025 AI SeoulTech Graduate Scholarship, Seoul Future Foundation (Sep 2025)
- 2026 AI SeoulTech Graduate Scholarship, Seoul Future Foundation (Jun 2026)