Inwoo Hwang

inwoohwang0818@gmail.com https://inwoohwang.me Google Scholar

Education

Seoul National University **Seoul, Korea**
Ph.D. in Electrical and Computer Engineering 03/2022 – Current
B.S. in Electrical and Computer Engineering 03/2016 – 02/2022

* military service completed (12/2017 - 12/2019)

Seoul Science High School for the gifted **Seoul, Korea**
Major: Mathematics 03/2013 – 02/2016

Honors and Awards

Excellent Research Talent Fellowship, BK21. 2023

***The Hyundai Motor Scholarship*(Ph.D. scholarship**, $ 40,000**)**, Chung Mong-Koo foundation. 2022 – Current

***The Presidential Science Scholarship*(Field: Mathematics**, $ 40,000**)**, Ministry of Science and ICT. 2016 – 2022

Gold medal, University Mathematics Competition, for mathematics major. 2020

Silver medal, University Mathematics Competition. 2019

15th place, Simon Marais Mathematics Competition, Undergraduate Mathematics Competition Asia-Pacific. 2019

Excellence award, High school Mathematics Competition, Final Korean Mathematical Olympiad (FKMO). 2015

Work Experience

Computational Imaging Team, Snap Research **New York City, New York**
Research Intern 05/2024 – 09/2024

- Working on physically plausible reconstruction of human motion and scenes from real-world videos.
- Mentors: Bing Zhou, Chuan Guo, Jian Wang.

Publications

SceneMI: Motion In-betweening for Modeling Human-Scene Interaction ICCV 2025
Inwoo Hwang, Bing Zhou, Young Min Kim, Jian Wang, and Chuan Guo paper project
research keywords: Motion Synthesis, Human-Scene Interaction, Diffusion Model, 3D Reconstruction

Motion Synthesis with Sparse and Flexible Keyjoint Control ICCV 2025
Inwoo Hwang, Jinseok Bae, Donggeun Lim, and Young Min Kim paper project
research keywords: Motion Synthesis, Spatial Control, Diffusion Model

Less is More: Improving Motion Diffusion Models with Sparse Keyframes ICCV 2025
Jinseok Bae, **Inwoo Hwang**, Young Yoon Lee, Ziyu Guo, Joseph Liu,
Yizhak Ben-Shabat, Young Min Kim, and Mubbasir Kapadia paper project
research keywords: Motion Synthesis, Diffusion Model

Event-Driven Storytelling with Multiple Lifelike Humans in a 3D Scene ICCV 2025
Donggeun Lim, Jinseok Bae, **Inwoo Hwang**, Seungmin Lee, Hwanhee Lee, and Young Min Kim paper project
research keywords: Motion Synthesis, Multiple Humans

A Survey on Human Interaction Motion Generation ArXiv 2025
Kewei Sui, **Inwoo Hwang***, Anindita Ghosh*, Bing Zhou, Jian Wang, and Chuan Guo paper project
research keywords: Human Interaction

Goal-Driven Human Motion Synthesis in Diverse Tasks CVPRW 2025
Inwoo Hwang, Jinseok Bae, Donggeun Lim, and Young Min Kim paper project
research keywords: Motion Synthesis, Spatial Control, Human-Scene Interaction, Diffusion Model

Versatile Physics-based Character Control with Hybrid Latent Representation Eurographics 2025
Jinseok Bae, Jungdam Won, Donggeun Lim, **Inwoo Hwang**, and Young Min Kim paper project
research keywords: Physics-based Animation

Text2Scene: Text-driven indoor scene stylization with part-aware details CVPR 2023, Highlight
Inwoo Hwang, Hyeonwoo Kim and Young Min Kim paper project
research keywords: 3D Stylization

Text2PointCloud: Text-Driven Stylization for Sparse PointCloud Eurographics 2023, Short
Inwoo Hwang, Hyeonwoo Kim, Donggeun Lim, Inbum Park and Young Min Kim paper project
research keywords: 3D Stylization

Ev-NeRF: Event Based Neural Radiance Field WACV 2023
Inwoo Hwang, Junho Kim, and Young Min Kim paper project
research keywords: 3D Reconstruction, Neural Radiance Field, Event Based Vision

Ev-TTA: Test-Time Adaptation for Event-Based Object Recognition CVPR 2022
Junho Kim, **Inwoo Hwang**, and Young Min Kim paper project
research keywords: Test-Time Adaptation, Event Based Vision

MasKGrasp: Mask-based Grasping for Scenes with Multiple General Real-world Objects IROS 2022
Junho Lee, Junhwa Hur, **Inwoo Hwang**, and Young Min Kim paper project
research keywords: Object Recognition, Robot Manipulation

Research Experience

Laboratory for Imaging Science and Technology, Seoul National University **Seoul, Korea**
Research Intern 12/2020 – 02/2021
- Worked on MRI Image Reconstruction.

Robot Learning Laboratory, Seoul National University **Seoul, Korea**
Research Intern 08/2020 – 12/2020
- Worked on 3D object detection and robot manipulation.

Academic Activities

Reviewer: CVPR 2023, 2024, 2025 ICCV 2023, 2025 NeurIPS 2025 3DV 2025 ICRA 2023 RA-L 2023