

INWOO HWANG

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Education

Seoul National University <i>Ph.D. in Electrical and Computer Engineering</i> <i>B.S. in Electrical and Computer Engineering</i> * military service completed (12/2017 - 12/2019)	Seoul, Korea 03/2022 – Current 03/2016 – 02/2022
Seoul Science High School for the gifted <i>Major: Mathematics</i>	Seoul, Korea 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 <i>Research Scientist Intern</i> • Working on physically plausible reconstruction of human motion and scenes from real-world videos. • Mentors: Bing Zhou, Chuan Guo, Jian Wang.	New York City, New York 05/2024 – 09/2024
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Publications

SnapMoGen: Human Motion Generation from Expressive Texts Chuan Guo, Inwoo Hwang , Jian Wang, and Bing Zhou research keywords: Text-to-Motion Synthesis, Multi-Scale Vector Quantization	Arxiv 2025 📎 paper project
SceneMI: Motion In-betweening for Modeling Human-Scene Interaction Inwoo Hwang , Bing Zhou, Young Min Kim, Jian Wang, and Chuan Guo research keywords: Motion Synthesis, Human-Scene Interaction, Diffusion Model, 4D Reconstruction	ICCV 2025, Highlight 📎 paper project
Motion Synthesis with Sparse and Flexible Keyjoint Control Inwoo Hwang , Jinseok Bae, Donggeun Lim, and Young Min Kim research keywords: Spatio-Temporal Controllable Motion Synthesis, Diffusion Model	ICCV 2025 📎 paper project
Less is More: Improving Motion Diffusion Models with Sparse Keyframes Jinseok Bae, Inwoo Hwang , Young Yoon Lee, Ziyu Guo, Joseph Liu, Yizhak Ben-Shabat, Young Min Kim, and Mubbasir Kapadia research keywords: Text-to-Motion Motion Synthesis, Diffusion Model	ICCV 2025 📎 paper project
Event-Driven Storytelling with Multiple Lifelike Humans in a 3D Scene Donggeun Lim, Jinseok Bae, Inwoo Hwang , Seungmin Lee, Hwanhee Lee, and Young Min Kim research keywords: Motion Synthesis, Multiple Humans, LLM	ICCV 2025 📎 paper project
A Survey on Human Interaction Motion Generation Kewei Sui, Inwoo Hwang* , Anindita Ghosh*, Bing Zhou, Jian Wang, and Chuan Guo research keywords: Human-X Interaction	ArXiv 2025 📎 paper project

Goal-Driven Human Motion Synthesis in Diverse Tasks

Inwoo Hwang, Jinseok Bae, Donggeun Lim, and Young Min Kim

research keywords: Motion Synthesis, Spatial Control, Human-Scene Interaction, Diffusion Model

CVPRW 2025

 [paper](#) [project](#)

Versatile Physics-based Character Control with Hybrid Latent Representation

Jinseok Bae, Jungdam Won, Donggeun Lim, **Inwoo Hwang**, and Young Min Kim

research keywords: Physics-based Animation

Eurographics 2025

 [paper](#) [project](#)

Text2Scene: Text-driven indoor scene stylization with part-aware details

Inwoo Hwang, Hyeonwoo Kim and Young Min Kim

research keywords: 3D Stylization

CVPR 2023, Highlight

 [paper](#) [project](#)

Text2PointCloud: Text-Driven Stylization for Sparse PointCloud

Inwoo Hwang, Hyeonwoo Kim, Donggeun Lim, Inbum Park and Young Min Kim

research keywords: 3D Stylization

Eurographics 2023, Short

 [paper](#) [project](#)

Ev-NeRF: Event Based Neural Radiance Field

Inwoo Hwang, Junho Kim, and Young Min Kim

research keywords: 3D Reconstruction, Neural Radiance Field, Event Based Vision

WACV 2023

 [paper](#) [project](#)

Ev-TTA: Test-Time Adaptation for Event-Based Object Recognition

Junho Kim, **Inwoo Hwang**, and Young Min Kim

research keywords: Test-Time Adaptation, Event Based Vision

CVPR 2022

 [paper](#) [project](#)

MasKGrasp: Mask-based Grasping for Scenes with Multiple General Real-world Objects

Junho Lee, Junhwa Hur, **Inwoo Hwang**, and Young Min Kim

research keywords: Object Recognition, Robot Manipulation

IROS 2022

 [paper](#) [project](#)

Research Experience

Laboratory for Imaging Science and Technology, Seoul National University

Research Intern

Seoul, Korea

12/2020 – 02/2021

- Worked on MRI Image Reconstruction.

Robot Learning Laboratory, Seoul National University

Research Intern

Seoul, Korea

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 2025,2026 ICRA 2023 RA-L 2023