

# INWOO HWANG

✉ inwoohwang0818@gmail.com 🏠 <https://inwoohwang.me> 🎓 Google Scholar

## Education

<b>Seoul National University</b>	<b>Seoul, Korea</b>
<i>Ph.D. in Electrical and Computer Engineering</i>	03/2022 – Current
<i>B.S. in Electrical and Computer Engineering</i>	03/2016 – 02/2022
* military service completed (12/2017 - 12/2019)	
<b>Seoul Science High School for the gifted</b>	<b>Seoul, Korea</b>
<i>Major: Mathematics</i>	03/2013 – 02/2016







## Honors and Awards

<i>Excellent Research Talent Fellowship</i> , BK21.	2023
<i>The Hyundai Motor Scholarship</i> (Ph.D. scholarship, \$ 40,000), Chung Mong-Koo foundation.	2022 – Current
<i>The Presidential Science Scholarship</i> (Field: Mathematics, \$ 40,000), Ministry of Science and ICT.	2016 – 2022
<i>Gold medal, University Mathematics Competition</i> , for mathematics major.	2020
<i>Silver medal, University Mathematics Competition</i> .	2019
<i>15th place, Simon Marais Mathematics Competition</i> , Undergraduate Mathematics Competition Asia-Pacific.	2019
<i>Excellence award, High school Mathematics Competition</i> , Final Korean Mathematical Olympiad (FKMO).	2015

## Work Experience

<b>Computational Imaging Team, Snap Research</b>	<b>New York City, New York</b>
<i>Research Intern</i>	05/2024 – 09/2024
<ul style="list-style-type: none"><li>Working on physically plausible reconstruction of human motion and scenes from real-world videos.</li><li>Mentors: Bing Zhou, Chuan Guo, Jian Wang.</li></ul>	

## Publications


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

## 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 ICRA 2023 RA-L 2023