

# INWOO HWANG

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## Education

<b>Seoul National University</b> <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)	<b>Seoul, Korea</b> 03/2022 – Current 03/2016 – 02/2022
<b>Seoul Science High School for the gifted</b> <i>Major: Mathematics</i>	<b>Seoul, Korea</b> 03/2013 – 02/2016

## Honors and Awards

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

## Work Experience

<b>Computational Imaging Team, Snap Research</b> <i>Research Intern</i> • Working on physically plausible reconstruction of human motion and scenes from real-world videos. • Mentors: Bing Zhou, Chuan Guo, Jian Wang.	<b>New York City, New York</b> 05/2024 – 09/2024
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## Publications

<b>SceneMI: Motion In-betweening for Modeling Human-Scene Interaction</b> <b>Inwoo Hwang</b> , Bing Zhou, Young Min Kim, Jian Wang, and Chuan Guo research keywords: Motion Synthesis, Human-Scene Interaction, Diffusion Models, 3D Reconstruction	ArXiv 2025 📄 paper project
<b>Motion Synthesis with Sparse and Flexible Keyjoint Control</b> <b>Inwoo Hwang</b> , Jinseok Bae, Donggeun Lim, and Young Min Kim research keywords: Motion Synthesis, Spatial Control, Diffusion Models	ArXiv 2025 📄 paper project
<b>A Survey on Human Interaction Motion Generation</b> Kewei Sui, <b>Inwoo Hwang*</b> , Anindita Ghosh*, Jian Wang, and Chuan Guo research keywords: Human Interaction	ArXiv 2025 📄 paper project
<b>Less is More: Improving Motion Diffusion Models with Sparse Keyframes</b> Jinseok Bae, <b>Inwoo Hwang</b> , Young Yoon Lee, Ziyu Guo, Joseph Liu, Yizhak Ben-Shabat, Young Min Kim, and Mubbasir Kapadia research keywords: Motion Synthesis, Diffusion Models	ArXiv 2025 📄 paper project
<b>Goal-Driven Human Motion Synthesis in Diverse Tasks</b> <b>Inwoo Hwang</b> , Jinseok Bae, Donggeun Lim, and Young Min Kim research keywords: Motion Synthesis, Spatial Control, Human-Scene Interaction, Diffusion Models	CVPRW 2025 📄 paper project
<b>Versatile Physics-based Character Control with Hybrid Latent Representation</b> Jinseok Bae, Jungdam Won, Donggeun Lim, <b>Inwoo Hwang</b> , and Young Min Kim research keywords: Physics-based Animation	Eurographics 2025 📄 paper project

**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**

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**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**

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