

Mijeong Kim

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I am a Ph.D. student at SNU Computer Vision Lab, under the guidance of Prof. Bohyung Han. I am passionate about **effective training** of reconstruction models for **real-world applications**, where my current research focuses on **Dynamic Scene Reconstruction from Casually Captured Video** and **Efficient/Robust Static Scene Reconstruction**. Also, I have recently developed an interest in integrating **uncertainty quantification** and **physics priors** into my work.

EDUCATION

- Ph.D. in Electrical and Computer Engineering, Seoul National University** Mar 2019 – Present
Advisor: Prof. Bohyung Han *Seoul, Korea*
- B.S. in Naval Architecture and Ocean Engineering, Seoul National University** Mar 2014 – Feb 2019
GPA 4.22/4.50, Rank 1/47, Summa Cum Laude *Seoul, Korea*
- Gyeongnam Science High School** Mar 2012 – Feb 2014
Admitted as the top student of the entire school / Exceptional talent in Physics / Graduated one year early (3Y→2Y)

RESEARCH & PUBLICATIONS

- [1] **PhysGaia: A Physics-Aware Benchmark with Multi-Body Interactions for Dynamic Novel View Synthesis**
Mijeong Kim*, Gunhee Kim*, Jungyoon Choi, Wonjae Roh, and Bohyung Han CVPR 2026
- [2] **GP-4DGS: Probabilistic Analysis of 4D Gaussian Splattings for Monocular Video Reconstruction via Variational Gaussian Processes**
Mijeong Kim, Jungtaek Kim, Bohyung Han CVPR 2026
- [3] **HyperPose: Hyper-pose Embeddings for 3D-Aware Generative Models with Self-Supervised Disentangling of Pose and Scene (*extension of ContraNeRF)**
Mijeong Kim, Namgi Kim, and Bohyung WACV 2026
- [4] **UA-4DGS: 4D Gaussian Splatting in the Wild with Uncertainty-Aware Regularization**
Mijeong Kim, Jongwoo Lim, Bohyung Han NeurIPS 2024
- [5] **Generative Neural Fields by Mixtures of Neural Implicit Functions**
Tackgeun You, Mijeong Kim, Jungtaek Kim, Bohyung Han NeurIPS 2023
- [6] **ContraNeRF: 3D-Aware Generative Model via Contrastive Learning with Unsupervised Implicit Pose Embedding**
Mijeong Kim, Hyunjoon Lee, Bohyung Han arXiv 23.04
- [7] **InfoNeRF: Ray Entropy Minimization for Few-Shot Neural Volume Rendering**
Mijeong Kim, Seonguk Seo, Bohyung Han CVPR 2022
- [8] **Beyond Homography: Nonparametric Image Alignment Via Graph Convolutional Networks**
Mijeong Kim, Sanghyeok Chu, Bohyung Han MVA 2022
- [9] **LT-MCMOT: Long-Term Multi-Camera Multi-Object Tracking via Feature Disentanglement and Adaptive Weighting**
Namgi Kim, Jungyun Choi, Mijeong Kim, Eunjae Hong, Bohyung Han Under review

OTHER RESEARCH PROJECTS

- 3D Modeling and Navigation with Real-World Data** Apr 2024 – Present
Funded by SNU College of Engineering, Seoul National University
- Dynamic Spatially-Adaptive Modulation for Image Dehazing [Document]** 2021
Funded by Samsung Advanced Institute of Technology, *Network Optimization for Efficient Image Signal Processing*
- Deep Learning-Based Pedestrian removal with Multi-View Data [8]** 2019 – 2020
Funded by NAVER Map, *Image Alignment with Multi-view Images from Dynamic Autonomous Driving Scenes*

HONORS & AWARDS

- Best Paper Award**, Samsung Electronics Aug 2022
InfoNeRF: Ray Entropy Minimization for Few-Shot Neural Volume Rendering (CVPR 2022) [7]
- Excellence Paper Award**, IPIU Feb 2022
InfoNeRF: Ray Entropy Minimization for Few-Shot Neural Volume Rendering (CVPR 2022) [7]
- Ph.D. Fellowship**, Kwanjeong Educational Foundation 2019 – 2021
Full funding, awarded for academic excellence
- Presidential Science Scholarship**, Government of South Korea 2014 – 2018
Full funding, awarded by the President of South Korea
- Talent Medal of South Korea**, Government of South Korea Feb 2014
Awarded in Physics, awarded by the President of South Korea

WORK EXPERIENCE

- Huawei, Noah's ark labs** — Research Intern Sep 2025 – Feb 2026
London, UK
- Mentor: Eduardo Pérez Pellitero in 3D Vision team
 - feed-forward 4D reconstruction
- Kakao Brain** — Research Intern Jul 2022 – Sep 2022
Seongnam, Korea
- Mentor: Hyunjoon Lee in Neural Rendering Task Force
 - NeRF based 3D-aware GAN for diverse object generation [6]

TEACHING EXPERIENCE

- Samsung Electronics** — Teaching Assistant
- Samsung AI Academy, Advanced Course: Generative Models Jul 2020
 - Samsung AI Academy, Advanced Course: Vision and Language Jul 2019
- Hyundai Motors** — Teaching Assistant
- Hyundai Motors AI Course: Generative Models Mar 2020 – Jun 2020
- Seoul National University** — Teaching Assistant
- Digital Computer Concept and Practice (Prof. Bohyung Han) Spring 2020
 - Dependable Deep Neural Networks (Prof. Bohyung Han) Fall 2019

ACADEMIC SERVICE

- Conference Reviewer** CVPR 2023–2026, AACL 2025–2026, NeurIPS 2023–2025, ICCV 2023 & 2025, ICLR 2026, ICML 2026, WACV 2026
- Journal Reviewer** TVCG, TPAMI, MVAP

LEADERSHIP

Tomorrow's Engineers Membership

2016 – 2018

Engineering Academic Club, Seoul National University

- Delivered seminars for Image Processing with OpenCV, C/C++ Programming, and Data Structures
- Mentored junior teams in embedded software projects and algorithm competitions

OTHER RESEARCH EXPERIENCE

Artificial Intelligence Lab, Seoul National University — Student Research Intern

Jun 2018 – Sep 2018

- Efficient Knowledge Distillation for Natural Language Processing, advised by Prof. Seongro Yoon

SKILLS

Tools and Languages

PyTorch, Python, C/C++, MATLAB, Git, Docker, \LaTeX

Communication

Korean (Native), English (Fluent)

INVITED TALK

- “GP-4DGS: Probabilistic Analysis of 4D Gaussian Splattings for Monocular Video Reconstruction via Variational Gaussian Processes [2]” at **Software Convergence Symposium 2026 (SWCS 2026)** Apr 2026
- “InfoNeRF: Ray Entropy Minimization for Few-Shot Neural Volume Rendering [7]” at **LG AI Research** Jul 2022
- “InfoNeRF: Ray Entropy Minimization for Few-Shot Neural Volume Rendering [7]” at **Kakao Enterprise** Jun 2022
- “InfoNeRF: Ray Entropy Minimization for Few-Shot Neural Volume Rendering [7]” at **CJ AI** Jun 2022
- “Few-shot Neural Radiance Fields” at **Kakao Brain** May 2022
- “Dynamic Spatially-Adaptive Modulation for Image Dehazing” at **Samsung Electronics** Jun 2021

REFERENCES

Advisor: Prof. Bohyung Han

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- cv.snu.ac.kr/index.php/bhhan