

Chaerin Min

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<https://chaerinmin.github.io/>

EDUCATION

- Brown University**, Providence, RI, United States Sep. 2023 – Present
- Ph.D. student in Computer Science
 - Advisor: Prof. Srinath Sridhar*
 - GPA 4.0/4.0
- Hanyang University (HYU)**, Seoul, South Korea Sep. 2021 – Aug.2023
- M.S. in Computer Science
 - Thesis: Neural Implicit Surfaces for Large Scenes using Valid Region Sampling
 - Advisor: Prof. Jongwoo Lim*
 - GPA 4.5/4.5
- University of Seoul (UOS)**, Seoul, South Korea Mar. 2017 – Aug. 2021
- B.S. in Electrical and Computer Engineering
 - GPA 4.3/4.5 (ranked 2/64)

RESEARCH INTERESTS

- Computer Vision, Deep Learning, Human-Object/Scene Interaction
- 3D Vision, Generative Models

PUBLICATIONS

Chaerin Min, Srinath Sridhar, “GenHeld: Generating and Editing HandHeld Objects”. (under review)

Kefan Chen, **Chaerin Min**, Linguang Zhang, Shreyas Hampali, Cem Keskin, and Srinath Sridhar, “HanDifformer: Conditional Hand Image Generation with Spatially-Aligned Diffusion”. (under review)

Chaerin Min*, Sehyun Cha*, Changhee Won, and Jongwoo Lim, “Fast Spatial Reasoning of Implicit 3D maps through Explicit Near-Far Sampling Range Prediction”. (under review)

Chaerin Min, Taehyun Kim, and Jongwoo Lim, “Meta-Learning for Adaptation of Deep Optical Flow Networks”, Winter Conference on Applications on Computer Vision (WACV), 2023.

[acceptance rate 29.1%]

RESEARCH EXPERIENCE

Research Assistant at Interactive 3D Vision and Learning Lab., Brown University Sep. 2023 – Present

- Interaction between 3D human, objects, and scenes.

Research Assistant at Computer Vision Lab., Hanyang University Sep. 2021 – Aug.2023

- Volumetric Environment Reconstruction Formulation Fused with Geometric Information
- Meta-learning Algorithm for Fast Adaptation in New Domains
- Robust Pose Estimation and 3D Reconstruction Algorithm by Fusing Event

Camera, IMU, and Deep Learning in Extreme Conditions.

Research Intern at Machine Learning and Vision Lab., Korea University

Jan. 2021 –Feb. 2021

- 3D semantic vision

Research Intern at Intelligent Media Lab., Korea University

Jun. 2020 – Aug. 2020

- Low-Level Vision, Super-resolution

PROFESSIONAL EXPERIENCE

Samsung Electronics, Seoul, Korea

Teaching Assistant

Jul. 2023 – Jul. 2023

- Led an intensive one-day lab course for the AI Expert program

Multipleye Co., Seoul, Korea

Research Intern

Aug. 2021 – Aug. 2021

- Created a learning method for estimating motion using events

Research Intern

Sep. 2022 – Jun. 2023

- Improved the 3D reconstruction model for a large-scale multi-camera setup

COMMUNITY SERVICES

- Served as a reviewer for CVPR 2024

TEACHING EXPERIENCE

- *Graduate Teaching Assistant*, Graduate School of Applied Artificial Intelligence, Hanyang University

Mar. 2023 – Aug. 2023

- Computer Vision (Spring 2023)

- *Graduate Teaching Assistant*, Graduate School of Applied Artificial Intelligence, Hanyang University

Mar. 2022 – Aug. 2022

- Computer Vision (Spring 2022)

- *Undergraduate Tutor*, College of Liberal Arts and Cross-Disciplinary Studies, University of Seoul

Sep. 2019 – Dec. 2019

- CalculusII (Fall 2019)

AWARDS & HONORS

- NASA EPSCoR, United States (Sep. 2023 – Jan. 2024) 17k USD
- *LG Electronics Fellowship*, LGE Vehicle Component Solutions, Korea (Mar. 2023 – Aug. 2023)
9M KRW
- *BrainKorea21*, National Research Foundation of Korea, Korea (Sep. 2021 – Aug. 2023)
26M KRW
- *ISEP Exchange*, ISEP, United States (Jan. 2020 – Jun. 2020)
21K USD
- *Scholarship for Excellent Achievement*, University of Seoul, Korea (Sep. 2019 – Dec.2019)

- Half tuition waiver as 650K KRW
- *Scholarship for Undergraduate Tutors*, University Innovation Support Project, Korea (Sep. 2019 – Dec. 2019) 1M KRW
- *Merit-based Seongnam Scholarship for high school students*, Seongnam Scholarship Foundation, Korea (2016) Tuition waiver for 1 year as 1.5M KRW

PATENTS

- “Learning method, learning device for estimating results of pose variation of camera using time series events and testing method, testing device using the same”, C. Won, C. Min, H. Seok, KR-Registration No. 10-2372988

OTHER EDUCATIONAL BACKGROUND

Louisiana State University (LSU), Baton Rouge, LA, United States Jan. 2020 – Jun. 2020
 Exchange Student in Electrical and Computer Engineering
 GPA 4.0/4.0

EXTRACURRICULAR ACTIVITIES

- Asia Pacific Youth Exchange Aug. 2019 – Aug. 2019
 - Promoted sustainable development goals and multiculturalism in local communities
- Volunteer: Disability Services at Louisiana State University Jan. 2020 – May. 2020
- Programming Languages: Python, PyTorch, CUDA, C/C++, TensorFlow, Java, HTML, Pyret, LaTeX
- Languages: Korean (native fluency), English (professional fluency)