

# Chaerin Min

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Providence, RI 02912

chaerin\_min@brown.edu  
<https://chaerinmin.github.io/>

## EDUCATION

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**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

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- Computer Vision in 3D
- Interaction between 3D/4D scenes, objects and humans

## PUBLICATIONS

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**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”, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2024.

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

## RESEARCH EXPERIENCE

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**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

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**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

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- Served as a reviewer for CVPR 2024

## TEACHING EXPERIENCE

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- *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

- Calculus II (Fall 2019)

## AWARDS & HONORS

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- 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

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- “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

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**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

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- 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)