Chaerin Min

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https://chaerinmin.github.io/

RESEARCH INTERESTS

Spatial Intelligence: building AI systems for 3D perception, reconstruction, and reasoning, with an emphasis on human signals and embodied interaction

PUBLICATIONS

Chaerin Min, Praccho Muna-Mcquay, Tao Lu, James Tompkin, Srinath Sridhar, "MotionSplicer: Controllable Motion Editing for 4D Scenes", In submission. [**PDF** | **Video**]

Chaerin Min, Hongsheng Yu, Fengtao Fan, Srinath Sridhar, Qiuxuan Wu, Chao Guo, "SLoFT: End-to-End Semantic Localization with Floorplan and Transformer", IEEE International Conference on Robotics and Automation **(ICRA), 2026**.

Kefan Chen*, **Chaerin Min***, Linguang Zhang, Shreyas Hampali, Cem Keskin, and Srinath Sridhar, "FoundHand: Large-Scale Domain-Specific Learning for Controllable Hand Image Generation", IEEE/CVF Conference on Computer Vision and Pattern Recognition **(CVPR), 2025. Highlight**

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, Tae Hyun 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.**

INTERNSHIPS & RESEARCH ASSISTANT

Google, Mountain View / San Jose, CA. *Mentor: Hongsheng Yu*
    Student Researcher, Visual localization. Published to ICRA 2026   Jun. 2025 – Sep. 2025
Interactive 3D Vision & Learning Lab, Brown University
    Research Assistant, 3D reconstruction and generation. Published to CVPR 2025   Sep. 2023 – Current
Multipleye Co.
    Research Intern, Neural rendering in large real indoor. Published to IROS 2024   Sep. 2022 – May 2023
    Research Intern, Localization using event camera. Achieved a patent   Jul. 2021 – Aug. 2021
Computer Vision Lab., HYU
    Research Assistant, Domain adaptation in optical flow. Published to WACV 2023   Sep. 2021 – Aug. 2023

SERVICES

- Reviewer for ECCV'24, T-PAMI'24, SIGGRAPH'25, AAAI'26, WACV'26, CVPR'24'25'26
- Junior Organizer for 1st 4DWorldModels Workshop at CVPR2026

EDUCATION

Brown University   Sep. 2023 – Present

    3rd year Ph.D. student in Computer Science
    Advisor: Prof. Srinath Sridhar

GPA 4.0/4.0

Hanyang University   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 4.0/4.0

University of Seoul   Mar. 2017 – Aug. 2021

B.S. in Electrical and Computer Engineering
GPA 4.3/4.5 (ranked 2/64)

AWARDS & HONORS

- **Outstanding Reviewer,** CVPR 2025   Spring 2025
- **LG Electronics Fellowship**, LGE Vehicle Component Solutions   Spring 2023
- **BrainKorea21**, National Research Foundation   Fall 2021
- **ISEP Exchange**, ISEP   Spring 2020
- **Scholarship for Excellent Achievement**, University of Seoul   Fall 2019
- *Merit-based* **Seongnam Scholarship**, Seongnam Scholarship Foundation   Spring 2016

TEACHING EXPERIENCE

- **Teaching Assistant**, AI Expert course (Samsung Electronics)   Summer 2023
- **Graduate Teaching Assistant**, Computer Vision (HYU AAI0013)   Spring 2022, Spring 2023
- **Undergraduate Teaching Assistant**, Calculus-2 (UOS 01584)   Fall 2019

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