

Seokjun Choi

CONTACT

INFORMATION

LinkedIn: <https://www.linkedin.com/in/seokjun-choi-734587190>

Github: <https://github.com/MichaelCSJ>

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CITIZENSHIP

Republic of Korea

RESEARCH

INTERESTS

Computational Illumination, Optics, Inverse Rendering

EDUCATION

POSTECH, Pohang University of Science and Technology, Pohang, Korea.

Ph.D. Student. Advisor **Seung-Hwan Baek**

The Department of Computer Science and Engineering,

Feb. 2022 - Now

Chung-Ang University, Seoul, Korea. The Degree of Bachelor of Engineering in

School of Integrative Engineering,

School of Software,

Feb. 2015 - Aug. 2021

- GPA: 4.11/4.5 (MAGNA CUM LAUDE)

PUBLICATIONS

Seokjun Choi, Hoon-Gyu Chung, Yujin Jeon, Giljoo Nam and Seung-Hwan Baek
“A Real-world Display Inverse Rendering Dataset”, *The IEEE/CVF International Conference on Computer Vision 2025 (ICCV 2025)*.

Hoon-Gyu Chung, **Seokjun Choi**, and Seung-Hwan Baek “Differentiable Inverse Rendering with Interpretable Basis BRDFs”, *The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2025 (CVPR 2025)*.

Juhyung Choi, Jinnyeong Kim, **Seokjun Choi**, Jinwoo Lee, Samuel Brucker, Mario Bijelic, Felix Heide, Seung-Hwan Baek “Dual Exposure Stereo for Extended Dynamic Range 3D Imaging”, *The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2025 (CVPR 2025)*.

Seokjun Choi, Seungwoo Yoon, Giljoo Nam, Seungyong Lee and Seung-Hwan Baek
“Differentiable Display Photometric Stereo”, *The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024 (CVPR 2024)*.

Hoon-Gyu Chung, **Seokjun Choi**, and Seung-Hwan Baek “Differentiable Point-based Inverse Rendering”, *The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024 (CVPR 2024)*.

Suhyun Shin, **Seokjun Choi**, Felix Heide, and Seung-Hwan Baek “Dispersed Structured Light for Hyperspectral 3D Imaging”, *The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024 (CVPR 2024)*.

EXPERIENCE	Military services in Republic of Korea Air Force , Jul. 2016 - Jul. 2018 15th Special Activity Wing, Republic of Korea. Sergeant in charge of Administration, 256th Tactical Airlift Squadron, 15th Combat Group.	
AWARDS AND HONORS	<ul style="list-style-type: none"> da Vinci Scholarship V, Awarded from Chung-Ang University, 2015 - 2020 MACH Extreme-Short Film Festival, Awarded from 2018 CAU College ICT Engineering Academic festival, 2018 MACH Game-Art Contest, Awarded from 2018 CAU College ICT Engineering Academic festival, 2018 	
RESEARCH PROJECT EXPERIENCE	<i>Neural Rendering for Acquisition of Realistic 3D Assets</i> Mar. 2023 - Dec. 2023 <ul style="list-style-type: none"> Sponsored by SAIT. 	
	<i>Performance Analysis of 2D Image-Based Semantic Segmentation Algorithm</i> Jun. 2022 - Nov. 2022 <ul style="list-style-type: none"> Sponsored by ETRI. 	
	<i>Visual Memory Network-based Cognitive Imitation</i> Apr. 2020 - Nov. 2020 <ul style="list-style-type: none"> Sponsored by ETRI. The goal of the project is developing the network compression algorithm for surveillance cameras. 	
TEACHING	<i>Teaching Assistant</i> <ul style="list-style-type: none"> POSCO AI Expert, 2022/2023/2024 Data Structure, POSTECH, 2023 Fall Computational Imaging, POSTECH, 2022 Spring 	
SKILLS	<i>Technical Skills</i> <ul style="list-style-type: none"> Optimization (PyTorch) Camera Control (PySpin) Image Signal Processing Rendering (OpenGL/GLSL) <i>Languages</i> <ul style="list-style-type: none"> Korean(Native) English(Conversational) 	