

Seokjun Choi

CONTACT

INFORMATION

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

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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, 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

- 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

Neural Rendering for Acquisition of Realistic 3D Assets

Mar. 2023 - Dec. 2023

- Sponsored by SAIT.

Performance Analysis of 2D Image-Based Semantic Segmentation Algorithm

Jun. 2022 - Nov. 2022

- Sponsored by ETRI.

Visual Memory Network-based Cognitive Imitation

Apr. 2020 - Nov. 2020

- Sponsored by ETRI. The goal of the project is developing the network compression algorithm for surveillance cameras.

TEACHING

Teaching Assistant

- POSCO AI Expert, 2022/2023/2024
- Data Structure, POSTECH, 2023 Fall
- Computational Imaging, POSTECH, 2022 Spring

SKILLS

Technical Skills

- Optimization (PyTorch)
- Camera Control (PySpin)
- Image Signal Processing
- Rendering (OpenGL/GLSL)

Languages

- Korean(Native)
- English(Conversational)