

# Seokjun Choi

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## CONTACT

### INFORMATION

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

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E-mail: [seokjun@postech.ac.kr](mailto:seokjun@postech.ac.kr)

## CITIZENSHIP

Republic of Korea

## RESEARCH INTERESTS

Inverse Rendering, Computational Illumination, Optics

## 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 Korean 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

*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.(Now preparing to apply for patent.)

TEACHING

*Teaching Assistant*

- Data Structure, POSTECH, 2023 Fall
- Computational Imaging, POSTECH, 2022 Spring

SKILLS

*Technical Skills*

- C/C++, Java, Python
- Deep Learning(PyTorch)
- Camera Control(PySpin)
- OpenGL/GLSL, Unity Engine, Maya

*Languages*

- Korean(Native)
- English(Advanced)