

Eunsue Choi

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Research interests Computational Imaging, Wave Optics, Metasurfaces, End-to-end optimization, Computer Vision, Computer Graphics, Cameras, Displays, lenses and Sensing, VR/AR

Education **POSTECH** Pohang, S.Korea
MS-PhD in Computer Science and Engineering Sep.2022 – Present
Advisor: [Dr. Seung-Hwan Baek](#)

POSTECH Pohang, S.Korea
BS in Computer Science and Engineering Mar.2018 – Aug.2022
Graduated with Magna Cum Laude

Chungnam Science High School Gongju, S.Korea
Early Graduation Mar.2016 – Feb.2018

Honors and Awards **Outstanding M.S. Thesis Award**, Korea Computer Graphics Society 2024
Alchemist R&D Fellowship, POSTECH 2024
Outstanding Interdisciplinary Research Award, POSTECH 2024
Finalist, DEFCON 27th CTF Hacking Competition World Final 2019

Publications [1] **360° Structured Light with Learned Metasurfaces** [[Link](#)]
Eunsue Choi*, Gyeongtae Kim*, JooyeongYun, Yujin Jeon, Junsuk Rho+,
Seung-Hwan Baek+
Nature Photonics, 2024.

* Featured in [Nature Computational Science's special issue](#), highlighted in [editorial](#) and [research highlights](#)

[2] **Spectral and Polarization Vision: Spectro-polarimetric Real-world Dataset** [[Link](#)]

Yujin Jeon*, Eunsue Choi*, Youngchan Kim, Yunseong Moon, Khalid Omer,
Felix Heide, Seung-Hwan Baek, (* equal contributions)
CVPR 2024, highlight

[3] **Limitations of Hyperspectral Imaging from RGB Images: A Data Perspective** [[Link](#)]

Qiang Fu, Matheus Souza, Eunsue Choi, Suhyun Shin, Seung-Hwan Baek,
Wolfgang Heidrich
Computational Optical Sensing and Imaging, Optica, 2024

Talks

Seeing beyond conventional light with wave optics

Korea Computer Graphics Society, Award Talk

July.2024

Teaching experience

Teaching assistant, Data Structure, POSTECH

Spring 2024

Teaching assistant, Data Structure, POSTECH

Fall 2023