

Eunsue Choi

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Research interests

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

Education

POSTECH

MS-PhD in Computer Science and Engineering

Advisor: [Prof. Seung-Hwan Baek](#)

Pohang, S.Korea

Sep.2022 – Present

POSTECH

BS in Computer Science and Engineering

Graduated with Magna Cum Laude

Pohang, S.Korea

Mar.2018 – Aug.2022

Chungnam Science High School

Early Graduation

Gongju, S.Korea

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

Teaching assistant, Data Structure, POSTECH

Spring 2024

Fall 2023