

Youngchan Kim

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Youngchan Kim

Education

Pohang University of Science and Technology (POSTECH)

MS in Graduate School of Artificial Intelligence

Mar 2022 – Feb 2024

Yonsei University

BS in Mathematics & Electrical and Electronic Engineering

Mar 2016 – Feb 2022

Work Experience

Beeble AI

ML Engineer

Apr 2024 – Apr 2025

- Build a synthetic human data generation pipeline to render OLAT images, PBR textures, and depth maps
- Optimize the pipeline for AI background removal, PBR map extraction, and monocular depth estimation
- Develop a web and cloud-based interactive tool for 3D virtual set creation and post-capture shot editing

Publications

[Computer Vision & Computer Graphics]

- [1] **Spectral and Polarization Vision: Spectro-polarimetric Real-world Dataset** CVPR 2024
Yujin Jeon*, Eunsue Choi*, Youngchan Kim, Yunseong Moon, Khalid Omer, Felix Heide, Seung-Hwan Baek (highlight)
- [2] **Neural Spectro-polarimetric Fields** SIGGRAPH Asia 2023
Youngchan Kim, Wonjoon Jin, Sunghyun Cho, Seung-Hwan Baek

[Recommendation System]

- [1] **Towards Minimally Domain-Dependent and Privacy-Preserving Architecture and Algorithms for Digital Me Services: EdNet and MIMIC-III Experiments** HICSS 2025
Kyoung Jun Lee, Baek Jeong, Youngchan Kim, Suhyeon Kim
- [2] **AMPER(Aim-Measure-Predict-Evaluate-Recommend): The Pradigm of Digital Me** ICEC 2022
Kyoung Jun Lee, Baek Jeong, Yujeong Hwangbo, Youngchan Kim, Sungwon Bae, Taehoon Baek

Teaching Experience

Tutor - Team Sparta Hanghae99 ML/DL Class

Mar 2025 – Jun 2025

- Deliver ML/DL lectures, create study materials, and conduct interactive Q&A sessions

Lecturer - Samsung Electronics DX (Digital Transformation) Training

Apr 2024

- Deliver lectures on Python programming and Data Science with hands-on coding sessions

Teaching Assistant - POSCO AI Expert Training

Oct 2022 / Jul 2023

- Conduct hands-on coding sessions on the Basics of Deep Learning and Computer Vision

Teaching Assistant - CSED700G Computational Imaging

Spring 2023

- Supervise and organize the online project presentations on Computational Imaging

Skills

Language Korean (Native), English (Conversational)

Programming Python, Pytorch, Tensorflow, C/C++, MATLAB, Mitsuba 2/3, Linux, Docker

Experiments with Hardware Machine Vision Camera (*LUCID Vision Labs TRIO51S-MC*), Hyperspectral Camera (*Cubert ULTRIS X20*), Liquid Crystal Tunable Filter (*Thorlabs KURIOS-XL1/M*)