Youngchan Kim

ML Engineer @ Beeble AI

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🏛 Education

Pohang University of Science and Technology (POSTECH) Mar. 2022 – Feb. 2024
MS in Graduate School of Artificial Intelligence *Pohang, Korea*

Yonsei University Mar. 2016 – Feb. 2022
BS in Mathematics & Electrical and Electronic Engineering *Seoul, Korea*

💼 Work Experience

Beeble AI Apr. 2024 – Present
ML Engineer *Seoul, Korea*
> Build a virtual light stage to render OLAT images, PBR textures, and depth maps of synthetic clothed humans
> Optimize the portrait relighting model with perspective monocular depth estimation using synthetic dataset
> Develop cloud-based workflow to create immersive 3D digital sets with HDRI in Blender for video production

📖 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

[Misc]

[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 Paradigm of Digital Me** ICEC 2022
Kyoung Jun Lee, Baek Jeong, Yujeong Hwangbo, Youngchan Kim, Sungwon Bae, Taehoon Baek

✍ Teaching Experience

Lecturer, *Samsung Electronics DX (Digital Transformation) Training* Apr. 2024
> Deliver lectures on *Python programming and Data Science* for experienced employees

Teaching Assistant, *CSED700G Computational Imaging* Spring 2023
> Supervise and manage the online term project presentations on *Computational Imaging*

Teaching Assistant, *POSCO AI Expert Training* Oct. 2022 / Jul. 2023

> Conduct practical coding sessions on the *Basics of Deep Learning and Computer Vision*

⚙ 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*)