Youngchan Kim

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🏛 Education

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

Yonsei University   Mar 2016 – Feb 2022
BS in Mathematics & Electrical and Electronic Engineering

💼 Work Experience

Beeble AI   Apr 2024 – Apr 2025
ML Engineer
> Build a synthetic data generation pipeline to render images, PBR textures, and depth maps of 3D assets
> Optimize the pipeline for AI video matting, camera tracking, PBR map extraction, and depth estimation
> Develop cloud-based tool that supports virtual 3D environment creation and editing in web and Blender

📔 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, *TeamSparta 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*)