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

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 for OLAT images, PBR textures, and depth maps from 3D assets
- Research and evaluate AI models like 2D/3D generation, motion capture, and depth estimation for product
- Develop a Blender plugin to support 3D set creation, cloud upload, shot import, and post-capture editing

📔 Publications

[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

📑 Projects

Minimally Domain-Dependent Privacy-Preserving Digital Me Algorithms
- General Digital Me algorithm to manage the individual's state and provide recommendations

GradDISN: Gradient-based Deep Implicit Surface Network for Detailed 3D Reconstruction
- Detailed 3D mesh reconstruction using an occupancy gradient-weighted loss function

✏ Teaching Experience

Lecturer, *Samsung Electronics DX (Digital Transformation) Training* Apr 2024 / Jan, Feb 2025
- Deliver lectures on *Python programming and Data Science* for experienced employees

Teaching Assistant, *CSED700G Computational Imaging* Spring 2023
- Supervise and organize the online 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 TRI051S-MC*), Hyperspectral Camera (*Cubert ULTRIS X20*), Liquid Crystal Tunable Filter (*Thorlabs KURIOS-XL1/M*)