

Youngchan Kim

ML Engineer @ Beeble

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Education

Pohang University of Science and Technology (POSTECH)

MS in Graduate School of Artificial Intelligence

Mar. 2022 – Feb. 2024

Pohang, Korea

Yonsei University

BS in Mathematics & Electrical and Electronic Engineering

Mar. 2016 – Feb. 2022

Seoul, Korea

Work Experience

Beeble

ML Engineer

Apr. 2024 – Jan. 2025

Seoul, Korea

- Build a virtual light stage-based pipeline to render PBR textures and depth maps of synthetic human models
- Optimize the portrait relighting model with perspective monocular depth estimation using synthetic dataset
- Create a virtual LED wall that enables customizable backgrounds for video production without physical setup

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

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

- 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 TR1051S-MC*), Hyperspectral Camera (*Cubert ULTRIS X20*), Liquid Crystal Tunable Filter (*Thorlabs KURIOS-XL1/M*)