

Youngchan Kim

ML Engineer @ Beeble

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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

Pohang, Korea

Yonsei University

BS in Mathematics & Electrical and Electronic Engineering

Mar. 2016 – Feb. 2022

Seoul, Korea

💼 Work Experience

Beeble

ML Engineer

Apr. 2024 – Present

Seoul, Korea

- Improve the human portrait relighting model with advanced PBR texture and depth map extraction algorithm
- Develop a human-centric monocular depth estimation model based on the perspective camera assumption
- Build a synthetic clothed human rendering pipeline with control over texture, shape, pose, camera, and light

📄 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

AMPER(Aim-Measure-Predict-Evaluate-Recommend): The Paradigm of Digital Me

- General Digital Me algorithm to manage the individual's state and provide recommendations

GradDISN: Gradient-based Deep Implicit Surface Network for Detailed 3D Reconstruction

- 3D mesh reconstruction by applying occupancy gradient-based weight to the loss function

✍ Teaching Experience

Lecturer, Samsung Electronics DX (Digital Transformation) Training

Apr. 2024

- Deliver lectures on *Python programming and Data Science* for newly hired experienced employees

Teaching Assistant, CSED700G Computational Imaging

Spring 2023

- Supervise the student projects related to *Computational Imaging*

Teaching Assistant, POSCO AI Expert Training

Oct. 2022 / Jul. 2023

- Conduct coding sessions for the *Basic 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*)

Honors & Awards

2021 Startup Internship Scholarships

2019 National Technical Certificate - Craftsman Information Processing

2016 National Scholarship II (*for students who achieved outstanding academic performances*)

2016 Merit-based Award and Scholarship (1st in the department)