

Youngchan Kim

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in youngchan-k
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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

Yonsei University

BS in Mathematics & Electrical and Electronic Engineering

Mar 2016 – Feb 2022

Work Experience

Beeble AI

ML Engineer

Apr 2024 – Apr 2025

Develop and optimize end-to-end AI/ML pipeline for visual scene data extraction from footages

[Research]

- > Research and develop AI vision models for matting, segmentation, depth and camera pose estimation
- > Build a synthetic human data generation pipeline to render OLAT images, PBR textures, and depth maps

[Product]

- > Implement shot editing and post-processing features for 3D web editor using Three.js and TypeScript
- > Develop a cloud-based Blender plugin that supports 3D virtual environment creation and post-shot editing

Publications

[Computer Vision & Computer Graphics]

Spectral and Polarization Vision: Spectro-polarimetric Real-world Dataset

CVPR 2024

- [1] Yujin Jeon*, Eunsue Choi*, Youngchan Kim, Yunseong Moon, Khalid Omer, Felix Heide, Seung-Hwan Baek

(highlight)

Neural Spectro-polarimetric Fields

SIGGRAPH Asia 2023

- [2] Youngchan Kim, Wonjoon Jin, Sunghyun Cho, Seung-Hwan Baek

[Recommendation System]

Towards Minimally Domain-Dependent and Privacy-Preserving Architecture and

HICSS 2025

- [1] Algorithms for Digital Me Services: EdNet and MIMIC-III Experiments

Kyoung Jun Lee, Baek Jeong, Youngchan Kim, Suhyeon Kim

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

ICEC 2022

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

Honors & Awards

2023 Reviewer for *Pacific Graphics 2023*

2021 Yonsei Startup Internship Scholarship

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)