

Donggeon Bae Undergraduate Student

School of Electrical and Electronic Engineering Yonsei University, Seoul, Republic of Korea

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Nationality & Languages

Republic of Korea Korean & English

▶ English Proficiency

OPIc: IH (Intermediate High)

Education

2018.03 - Present

B.S. in Electrical and Electronic Engineering Yonsei University

Research Interests

Computer Vision / Computational Imaging / Biophotonics

Experiences

(2020.01 – Present) Undergraduate Researcher, Optical Imaging Systems Laboratory (OISL) in Yonsei University (Advisor: Prof. Seung Ah Lee) Detailed Achievements:

- Lensless Imaging
 - Deep Learning for Image Reconstruction
 - Deep Learning for Comprehensive Lensless Forward Modeling
- Laser Speckle Imaging

(2022.07 – 2023.01) Researcher, Yonsei Artificial Intelligence, On/Offline (2021.07 – 2021.12) Researcher, Yonsei Artificial Intelligence, Online Detailed Achievements:

- Demanding Dataset Generation
- Cell Segmentation
- Deep Learning Methods for Medical Diagnosis

(2020.11 - 2022.05) Military Service in Korea Following Obligation

Publications

1. "Lensless Imaging with an End-to-End Deep Neural Network"

Donggeon Bae, Jaewoo Jung, Nakkyu Baek and Seung Ah Lee

Conference (selected)

2020, Oral, IEEE/IEIE ICCE-ASIA

Donggeon Bae, Jaewoo Jung, Nakkyu Baek and Seung Ah Lee, "Lensless Imaging with an End-to-End Deep Neural Network"

2021, Poster, Optics and Photonics Congress

Jaewoo Jung, Tae Young Kim, **Donggeon Bae**, Ernest K. Ryu and Seung Ah Lee, "**Unrolled ADMM for Image Reconstruction in Lensless Cameras**"

2021, Oral, IEEE/IEIE ICCE-ASIA

Jaewoo Jung, Tae Young Kim, **Donggeon Bae**, Ernest K. Ryu and Seung Ah Lee, "Image Reconstruction in Lensless Cameras with Unrolled Optimization Algorithms"

2022, Poster, Gorden Research Conference Image Science

Jaewoo Jung, **Donggeon Bae**, Kyungchul Lee, Nakkyu Baek, Ernest K. Ryu and Seung Ah Lee, "**Deep Learning Approaches for Image Reconstrucion in Lesnelss Cameras**"

2022, Oral, IEEE Region 10 Conference

Jaewoo Jung, Tae Young Kim, **Donggeon Bae**, Ernest K. Ryu and Seung Ah Lee, "Image Reconstruction in Lensless Cameras with Unrolled Optimization Algorithms"

Research Techniques

▶ Computer Skills

Python, C/C++, MATLAB, Linux, Raspberry Pi

► Machine Learning

Pytorch, Keras, Tensorflow

Personal Interests

Poetry, billiard