

Hah Min Lew

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CAREER OBJECTIVE

My interest is to solve data-driven valuable real-world problems through AI / ML systems, currently based on computer vision and machine learning. I'm a curious and challenging spirit, and proactively seeking opportunities to grow and share my knowledge. For more details, [click here](#).

EXPERIENCE

Klleon Aug. 2022 - present

AI Researcher, ML model engineering for image and video synthesis through generative modeling using implicit, score-based, and 3D-aware methods. Worked on [Chroma-HS](#) by employing Vision Transformer (ViT).

MBIS Lab, Advisor: Jae Youn Hwang Mar. 2019 - Aug. 2022

Graduate Researcher, [6 SCIE publications](#), 7 international conferences, 9 projects, 6 patents, and [2 awards](#). Teaching coding and medical image analysis using CNN to high school students for 10 months.

LANTERN Nov. 2016 - July 2017

Co-founder, Founded a data-driven customized tutor matching service company. Co-working with **Class101**.

SELECTED PROJECTS

Construction of a 3D Facial Action Coding System (3D FACS) June 2023 - present

Data-centric research and 3D parameterized model engineering. | Used skills: Python, PyTorch, Docker

Development of a state-of-the-art ML-based head swapping pipeline Dec.2022 - June 2023

Full cycle experience from the problem statement, data preprocessing and construction, ML model design, training and evaluation, result serving and improvement. | Used skills: Python, PyTorch

Building a core production-level head swapping framework Oct.2022 - Dec.2022

Implementing and reproducing baseline from scratch that has no code. Design optimal solutions to achieve performance at product-applicable levels. | Used skills: Python, PyTorch

EDUCATION

Mar. 2019 - Aug. 2021 M.S. in Electrical Engineering & Computer Science at **DGIST** (GPA: 4.06/4.3)

Mar. 2014 - Feb. 2019 Bachelor of Engineering at **DGIST** ([Best Project Award](#))

SELECTED PUBLICATIONS

K. Lee, **Hah Min Lew**, et al., "CSS-Net: Classification and Substitution for Segmentation of Rotator Cuff Tear", In **ACCV 2022**.

M. H. Lee, **Hah Min Lew**, et al., "Deep learning-based framework for fast and accurate acoustic hologram generation", **IEEE TUFFC** (IF: 3.267, **Frontal Cover Paper**), 2022.

T. C. Cavalcanti, **Hah Min Lew**, et al., "Intelligent Smartphone-based Multimode Imaging Oscope for the Mobile Diagnosis of Otitis Media", **Biomedical Optics Express** (IF: 3.562, **Spotlight on Optics**), 2021.

Hah Min Lew, et al., "Ultrasonic Blood Flowmeter with a Novel Xero Algorithm for a Mechanical Circulatory Support System", **Ultrasonics** (IF: 4.062), 2021.

J. Kim, **Hah Min Lew**, et al., "Forward-looking Multimodal Endoscopic System based on Optical Multispectral and High-frequency Ultrasound Imaging techniques for Tumor Detection", **IEEE TMI** (IF: 11.037), 2020.

SKILLS

Programming [Python](#), [PyTorch](#), [TensorFlow](#) | [Docker](#), [Git](#)
Languages Korean (native), English (professional working proficiency)