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 ML engineering. 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 Otoscope 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)