Tae-hyoung Kim

ML / DL Engineer iMediSync, Inc 175, Yeoksam-ro, Gangnam-gu, Seoul, Republic of Korea kthwork9934@gmail.com kthworks.github.io

EDUCATION

Mar. 2019 ~ Feb. 2021	Ulsan National Institute of Science and Technology Department of Biomedical Engineering	Ulsan, Korea
	Thesis: Decoding Single Pitch Imagery from the Human EEG Advisor: Sung-Phil Kim	
	M.S. in Biomedical Engineering	
Mar. 2015 ~ Feb. 2019	Ulsan National Institute of Science and Technology School of Electrical Engineering	Ulsan, Korea
	Advisor: Sung-Phil Kim	
	B.S. in Electrical and Computer Engineering	

RESEARCH INTERESTS

- Brain signal processing
- Machine learning
- Deep learning
- Heart rate variability
- Automatic Speech Recognition (ASR)

RESEARCH EXPERIENCES

- Research Intern at Music and Audio Research Group (MARG), Seoul National University (SNU),
 Korea (Dec. 2017 ~ Feb. 2018) / ML & DL researcher
- Researcher at Research Team, iMediSync. Inc, Korea (Feb. 2021 ~ Present) / Researcher (EEG & HRV Modeling)

PROJECTS

- Development of Neural Information Processing Systems for Real-time Movement Control Integrated with Somatosensory Feedback, National Research Foundation of Korea (NRF), Korea (Apr. 2018 ~ Jan. 2019)
- Active and Adaptive Intelligence in Natural Brain and its Application to AI, National Research Foundation of Korea (NRF), Korea (Jan. 2019 ~ Dec. 2019)

- Art Neuveau, Decoding Inner Music Using Electrocorticography, Samsung, Korea (Dec. 2019 ~ Feb. 2021)
- Early screening model for depression using EEG, iMediSync, Korea (Feb. 2021 ~ Present)
- Stress modeling using PPG signal, iMediSync, Korea (Sep. 2021 ~ Present)

SKILLS AND TECHNIQUES

- Neural data analysis (Spike, ECoG, EEG, Calcium imaging) / Modeling
- Heart Rate Variability(HRV) & PPG data analysis / Modeling
- Statistical data analysis
- ML / DL
- MATALB, Python, C++, R, Arduino, Pytorch
- Natural Language processing

CERTIFICATE

• 국가공인 데이터 분석 준전문가 (ADsP), 한국데이터산업진흥원 (K-data), Korea (Jun. 2020)

INTERNATIONAL CONFERENCE

- Society for Neuroscience (SfN) 2019, Chicago
- CES Show 2022, Las vegas