CURRICULUM VITAE

JOO YOUNG KIM

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PERSONAL INFORMATION:

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Citizenship: Republic of Korea

PhD candidate and Technical Research Personnel in the Biomedical Engineering Department at Hanyang University, South Korea.

I work with Professor In Young Kim in the Smart Ubiquitous Healthcare Lab.

I completed my B.S. in Biomedical Engineering at Hanyang University and can handle most bio-signals and medical images. In particular, I can design the whole systems for electrical bio-signals, including hardware design, firmware coding and analysis.

Through the analysis of bio-signals and medical images, I have become interested in computer science and have a need for related research. So, we created an A.I. team in the lab and I am currently working on this team, doing CNN and RNN based research.

EDUCATION AND PROFESSIONAL APPOINTMENTS

EDUCATION:

2016-*Present*	Ph.D. candidate, Biomedical Engineering, Hanyang University, Seoul, Korea Supervisor: Dr. In Young Kim
2012-2016	B.Sc. Biomedical Engineering, Hanyang University, Seoul, Korea

HONORS, AWARDS:

2017	Best Paper Award	The Korean Society of Medical & Biological Engineering

RESEARCH

RESEARCH EXPERIENCE:

2016-*Present*	Graduate Research Assistant, A.I. team, Smart Ubiquitous Healthcare Lab., Biomedical Engineering, Hanyang University, Seoul, Korea
2015-2016	Undergraduate Research Intern, Hearing team, Smart Ubiquitous Healthcare Lab., Biomedical Engineering, Hanyang University, Seoul, Korea
2017-*Present*	Research Assistant, Smart Healthcare & Device Research Center, Samsung Medical Center, Seoul, Korea

MAJOR AREAS OF RESEARCH INTEREST

Machine learning and deep learning in medical image

Biomedical engineering, Computer science, Electrical engineering

PUBLICATIONS:

REFEREED JOURNAL ARTICLES: * lead author; ^ co-author

1. **Kim, J. Y.***, Ro, K., You, S., Nam, B. R., Yook, S., Park, H. S., ... & Kim, I. Y. (2019). Development of an automatic muscle atrophy measuring algorithm to calculate the ratio of supraspinatus in supraspinous fossa using deep learning. ***Computer Methods and Programs in Biomedicine,***, 182, 105063.
2. **Kim, J. Y.***, Nam, K. W., Lee, J. C., Hwang, J. H., Jang, D. P., & Kim, I. Y. (2018). Scalp tapping-based protocol for adjusting the parameters of binaural hearing aids. ***Biomedical Signal Processing and Control***, 45, 91-97.
3. You, S., Cho, B. H., Yook, S. **Kim, J. Y.^**, Shon, Y. -M, Seo, D. -W., Kim, I. Y. (2020). Unsupervised automatic seizure detection for focal-onset seizures recorded with behind-the-ear EEG using an anomaly-detecting generative adversarial network, ***Computer Methods and Programs in Biomedicine***, 193, 105472
4. Kim, D. Y., Kwon, J., **Kim, J. Y.^**, Cha, H. S., Kim, Y. W., Kim, I. Y., & Im, C. H. (2018). New Method for Pure-Tone Audiometry Using Electrooculogram: A Proof-of-Concept Study. ***Sensors***, 18(11), 3651.
5. So, S., You, S. M., **Kim, J. Y.^**, An, H. J., Cho, B. H., Yook, S., & Kim, I. Y. (2018). Development of Age Classification Deep Learning Algorithm Using Korean Speech. ***Journal of Biomedical Engineering Research***, 39(2), 63-68.
6. **Kim, J.***, Lee, S., Kim, K., Cho, K., You, S., So, S., ... & Kim, I. Y. (2017). Development of Bone Metastasis Detection Algorithm on Abdominal Computed Tomography Image using Pixel Wise Fully Convolutional Network. ***Journal of Biomedical Engineering Research***, 38(6), 321-329.