

Jee Seok Yoon

PhD Student @ Korea University

✉ wltjr1007@korea.ac.kr

☎ +82-10-8411-0579

📍 Seoul, South Korea



INTERESTS	Representation Learning, Medical Image Analysis Current Interests: Image Style Transfer, Few-shot Learning, Disentangled Representation Learning
EDUCATION	<div> Korea University Seoul, South Korea <i>Integrated M.S./Ph.D. student in Dept. of Brain and Cognitive Engineering</i> <i>Advisor: Professor Heung-Il Suk</i> GPA: 4.08 / 4.5 (95.2 / 100) Sep. 2018 – </div> <div> Korea University Seoul, South Korea <i>Undergraduate student in Dept. of Computer Science and Engineering</i> GPA: 3.23 / 4.5 (85.5 / 100) Mar. 2012 – Aug. 2018 </div> <div> American International School Dhaka Dhaka, Bangladesh <i>Middle, High school</i> Mar. 2007 – Mar. 2010 </div>
AWARDS	<div> Student Travel Award Quebec, Canada Medical Image Computing and Computer Assisted Intervention Conference (MICCAI, link) Sep. 2017 </div> <div> Best Paper Award Jeju Island, South Korea Korean Institute of Information Scientists and Engineers (KIISE) Korea Computer Congress (KCC, link) Jun. 2017 </div> <div> Best Undergraduate Student Paper Award Pyeongchang, South Korea Korean Institute of Information Scientists and Engineers (KIISE) Winter Conference (Link, code) Dec. 2016 </div>
SELECTED PUBLICATIONS	<p>Jee Seok Yoon*, Wonjun Ko, and Heung-Il Suk, “Plug-in Factorization for Latent Representation Disentanglement,” <i>arXiv</i>, preprint arXiv:1905.11088 (Link, code)</p> <p>Bum-Chae Kim*, Jee Seok Yoon*, Jun-Sik Choi, and Heung-Il Suk, “Multi-scale Gradual Integration Convolutional Neural Network for False Positive Reduction in Pulmonary Nodule Detection,” <i>Neural Networks</i>, Vol. 115, pp. 1-10, 2019. (IF 7.197, link, code)</p> <p>Wonjun Ko*, Jee Seok Yoon, and Heung-Il Suk, “Towards Reducing Calibration in BCI: Artificial EEGs Generation by Deep Learning,” Proc. of 7th <i>International Brain-Computer Interface Meeting</i>, Pacific Grove, USA, 2018. (Poster, link)</p> <p>Wonjun Ko*, Jee Seok Yoon, Eun-song Kang, Eunji Jun, Jun-Sik Choi, and Heung-Il Suk, “Deep Recurrent Spatio-Temporal Neural Network for Motor Imagery based BCI,” Proc. of 6th <i>IEEE International Winter Conference on Brain-Computer Interface</i>, High1 Resort, Korea, 2018. (Poster, link)</p> <p>Jee Seok Yoon*, Eun-Song Kang, and Heung-Il Suk, “Gated Two-Stage Convolutional Neural Network for Ischemic Stroke Lesion Segmentation,” Proc. of 20th <i>MICCAI Workshop on Ischemic Stroke Lesion Segmentation Challenge (ISLES)</i>, Quebec, Canada, 2017. (<i>Student Travel Award</i>, poster, link)</p>
EXPERIENCE	<div> Kakao Pangyo, Gyeonggi, South Korea <i>Research Intern</i> Jun. 2018 – Aug. 2018 - Mainly focused on meta-learning and few-shot learning (produced 1st paper in Selected Publications) </div> <div> SK Telecom Eulji-ro, Seoul, South Korea <i>Teaching Assistant</i> Sep. 2017 – Jul. 2019 - Taught TensorFlow V1/2 and PyTorch to employees of SK Group ranging from experts to beginners </div> <div> Venture Company Anam, Seoul, South Korea <i>Co-founder, CTO, Backend Developer</i> Mar. 2013 – May. 2014 - Developed the backend for a mobile dating service (currently out of business) </div>
SKILLS	<p>PROGRAMMING Daily usage of TensorFlow (V1, V2), PyTorch, Python 6+ months of experience in Android and Java server programming</p> <p>DATASET FLUENCY Experience with <u>public and private</u>, <u>large and small size</u>, <u>many and few samples</u>, <u>1D/2D/3D/4D</u> datasets E.g. 2D (ImageNet, CelebA-HQ, ...), s/fMRI (BRATS, ISLES, ADNI), EEG (Kaggle), EHR (PhysioNet)</p>

PUBLICATIONS

JOURNAL	<ol style="list-style-type: none"> 1. Jee Seok Yoon*, Wonjun Ko, and Heung-Il Suk, “Plug-in Factorization for Latent Representation Disentanglement,” <i>arXiv</i>, preprint arXiv:1905.11088 (Link, code) 2. Bum-Chae Kim*, Jee Seok Yoon*, Jun-Sik Choi, and Heung-Il Suk, “Multi-scale Gradual Integration Convolutional Neural Network for False Positive Reduction in Pulmonary Nodule Detection,” <i>Neural Networks</i>, Vol. 115, pp. 1-10, 2019. (IF 7.197, link, code)
INTERNATIONAL CONFERENCE	<ol style="list-style-type: none"> 1. Jee Seok Yoon*, Wonjun Ko, and Heung-Il Suk, “A Plug-in Factorizer for Disentangling a Latent Representation,” Proc. of 1st <i>ICCV Workshop on Interpreting and Explaining Visual Artificial Intelligence Models</i>, Seoul, South Korea, 2019 (Link) 2. Wonjun Ko*, Jee Seok Yoon, and Heung-Il Suk, “Towards Reducing Calibration in BCI: Artificial EEGs Generation by Deep Learning,” Proc. of 7th <i>International Brain-Computer Interface Meeting</i>, Pacific Grove, USA, 2018. (Poster, link) 3. Wonjun Ko*, Jee Seok Yoon, Eun-song Kang, Eunji Jun, Jun-Sik Choi, and Heung-Il Suk, “Deep Recurrent Spatio-Temporal Neural Network for Motor Imagery based BCI,” Proc. of 6th <i>IEEE International Winter Conference on Brain-Computer Interface</i>, High1 Resort, Korea, 2018. (Poster, link) 4. Jee Seok Yoon*, Eun-Song Kang, and Heung-Il Suk, “Gated Two-Stage Convolutional Neural Network for Ischemic Stroke Lesion Segmentation,” Proc. of 3rd <i>MICCAI Workshop on Ischemic Stroke Lesion Segmentation Challenge (ISLES)</i>, Quebec, Canada, 2017. (<i>Student Travel Award</i>, poster, link)
DOMESTIC CONFERENCE	<ol style="list-style-type: none"> 1. Jee Seok Yoon* and Heung-Il Suk, “Auto-context Bagging for Brain Tumor Automatic Segmentation,” Proc. of 2017 <i>KIISE Korea Computer Congress (KCC)</i>, 2017 (<i>Best Paper Award</i>, oral, link) 2. Jee Seok Yoon* and Heung-Il Suk, “Deep Learning-based Brain Tumor Segmentation from Multi-modal MRI,” Proc. of 2016 <i>KIISE Winter Conference</i>, 2016 (<i>Best Paper Award</i>, poster, link, code)
DOMESTIC PATENT	<ol style="list-style-type: none"> 1. Jee Seok Yoon and Heung-Il Suk*, “A Method and Device for Explainable Few-shot Image Classification,” Korean Patent, No. 10-2018-0142824, 19 Nov. 2018 (Pending, link)
DOMESTIC ARTICLE	<ol style="list-style-type: none"> 1. Jee Seok Yoon* and Heung-Il Suk, “AI-based Computer Vision Uses in Kakao Corp.,” <i>Communications of the Korean Institute of Information Scientists and Engineers</i>, Vol. 37, No. 2, pp. 52-55, Feb 2019 (Link)

*First Author(s)

Thank you for your interest.

