## Jee Seok Yoon

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Interests	Representation Learning, Meta Learning, Medical Image Analysis		
	Current Interests: Disentangled Representation Learning, Image Style Transfer, Few	-shot Learning	
EDUCATION	Korea University (Coursework: 5 <sup>th</sup> Semester, one more to go)  Integrated M.S./Ph.D. student in Dept. of Brain and Cognitive Engineering  Advisor: Professor Heung-Il Suk  GPA: 4.27 / 4.5 (97.4 / 100)	Seoul, South Korea Sep. 2018 –	
	<b>Korea University</b> <i>Undergraduate student in Dept. of Computer Science and Engineering</i> GPA: 3.23 / 4.5 (85.5 / 100)	Seoul, South Korea Mar. 2012 – Aug. 2018	
	American International School Dhaka Middle, High school	Dhaka, Bangladesh Mar. 2007 – Mar. 2010	
	+8 years in Australia, Bangladesh, Indonesia, Thailand		
AWARDS	Student Travel Award  Medical Image Computing and Computer Assisted Intervention Conference (MICCAI, link)	Quebec, Canada Sep. 2017	
	Best Paper Award Korean Institute of Information Scientists and Engineers (KIISE) Korea Computer Congress (K	Jeju Island, South Korea CC, <u>link</u> ) Jun. 2017	
	Best Undergraduate Student Paper Award  Korean Institute of Information Scientists and Engineers (KIISE) Winter Conference (Link, cod	Pyeongchang, South Korea <u>e</u> ) Dec. 2016	
SELECTED PUBLICATIONS	<b>Jee Seok Yoon*</b> , Wonjun Ko, and Heung-Il Suk, "Plug-in Factorization for Latent Representation Disentanglement," <i>arXiv</i> , preprint arXiv:1905.11088 (Paper, code, submitted to IEEE TNNLS ( <b>IF 8.793</b> ))		
*First Author(s)	Y. Ahn*, <b>Jee Seok Yoon</b> *, S. Lee, HI. Suk* J. Son, Y. Sung, Y. Lee, BK Kang, and H. Kim, "Deep Learning Algorithm for Automated Segmentation and Volume Measurement of the Liver and Spleen Using Portal Venous Phase Computed Tomography Images," <i>Korean Journal of Radiology</i> , Vol. 21, No. 8, pp. 987-997, 2020 (IF 3.179, paper)		
	Bum-Chae Kim*, <b>Jee Seok Yoon</b> *, 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. ( <i>IF 7.197</i> , paper, code)		
	<b>Jee Seok Yoon*</b> , Wonjun Ko, and Heung-Il Suk, "A Plug-in Factorizer for Disentangling a Latent Representation," Proc. of 1 <sup>st</sup> <i>ICCV Workshop on Interpreting and Explaining Visual Artificial Intelligence Models</i> , Seoul, South Korea, 2019 (Poster <b>Spotlight</b> , link)		
	<b>Jee Seok Yoon*</b> , Eun-Song Kang, and Heung-Il Suk, "Gated Two-Stage Convolution Ischemic Stroke Lesion Segmentation," Proc. of 3 <sup>rd</sup> MICCAI Workshop on Ischemic Segmentation Challenge (ISLES), Quebec, Canada, 2017. (Student Travel Award, po	Stroke Lesion	
EXPERIENCE	SK Telecom  Teaching Assistant  - Taught TensorFlow V1/2 and PyTorch to employees of SK Group ranging from	ulji-ro, Seoul, South Korea Sep. 2017 – experts to beginners	
	Kakao Pangg	yo, Gyeonggi, South Korea	
	Research Intern	Jun. 2018 – Aug. 2018	
	- Mainly focused on meta-learning and few-shot learning (produced 1st paper in S	elected Publications)	
	<ul> <li>Venture Company</li> <li>Co-founder, CTO, Backend Developer</li> <li>Developed the backend for a mobile dating service (currently out of business)</li> </ul>	Anam, Seoul, South Korea Mar. 2013 – May. 2014	
SKILLS	PROGRAMMING Daily usage of <b>TensorFlow</b> (V1, <b>V2</b> ), <b>PyTorch</b> , Python 6+ months of experience in Android and Java server programming		
	DATASET FLUENCY Experience with <u>public and private</u> , <u>large and small size</u> , <u>many and few samples</u> , <u>1D/</u> E.g. <b>2D</b> (ImageNet, CelebA-HQ,), <b>s/fMRI</b> (BRATS, ISLES, ADNI), <b>EEG</b> (Kagg		

## **PUBLICATIONS**

Journal	1.	Y. Ahn*, <b>Jee Seok Yoon</b> *, S. Lee, HI. Suk* J. Son, Y. Sung, Y. Lee, BK Kang, and H. Kim, "Deep Learning Algorithm for Automated Segmentation and Volume Measurement of the Liver and Spleen Using Portal Venous Phase Computed Tomography Images," <i>Korean Journal of Radiology</i> , Vol. 21, No. 8, pp. 987-997, 2020 (IF 3.179, paper)
	2.	<b>Jee Seok Yoon*</b> , Wonjun Ko, and Heung-Il Suk, "Plug-in Factorization for Latent Representation Disentanglement," <i>arXiv</i> , preprint arXiv:1905.11088 ( <u>Paper</u> , <u>code</u> , submitted to IEEE TNNLS ( <b>IF 8.793</b> ))
	3.	Bum-Chae Kim*, <b>Jee Seok Yoon</b> *, 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. ( <i>IF 7.197</i> , paper, code)
INTERNATIONAL CONFERENCE	1.	<b>Jee Seok Yoon*</b> , 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 (Poster <b>Spotlight</b> , link)
	2.	Wonjun Ko*, <b>Jee Seok Yoon</b> , and Heung-II Suk, "Towards Reducing Calibration in BCI: Artificial EEGs Generation by Deep Learning," Proc. of 7 <sup>th</sup> <i>International Brain-Computer Interface Meeting</i> , Pacific Grove, USA, 2018. ( <u>Student Award</u> , Poster, <u>link</u> , <u>paper</u> )
	3.	Wonjun Ko*, <b>Jee Seok Yoon</b> , 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 6 <sup>th</sup> <i>IEEE International Winter Conference on Brain-Computer Interface</i> , High1 Resort, Korea, 2018. (Poster, paper)
	4.	<b>Jee Seok Yoon*,</b> Eun-Song Kang, and Heung-Il Suk, "Gated Two-Stage Convolutional Neural Network for Ischemic Stroke Lesion Segmentation," Proc. of 3 <sup>rd</sup> <i>MICCAI Workshop on Ischemic Stroke Lesion Segmentation Challenge (ISLES)</i> , Quebec, Canada, 2017. ( <i>Student Travel Award</i> , poster, paper)
Domestic Conference	1.	Jee Seok Yoon* and Heung-Il Suk, "Auto-context Bagging for Brain Tumor Automatic Segmentation," Proc. of 2017 KIISE Korea Computer Congress (KCC), 2017 ( <u>Best Paper Award</u> , oral, <u>link</u> , <u>paper</u> )
	2.	Jee Seok Yoon* and Heung-Il Suk, "Deep Learning-based Brain Tumor Segmentation from Multi-modal MRI," Proc. of 2016 KIISE Winter Conference, 2016 ( <u>Best Paper Award</u> , poster, <u>link</u> , <u>paper</u> , <u>code</u> )
DOMESTIC PATENT	1.	<b>Jee Seok Yoon</b> and Heung-Il Suk*, "A Method and Device for Explainable Few-shot Image Classification," Korean Patent, No. 10-2018-0142824, 19 Nov. 2018 (Pending, <u>link</u> )
Domestic Article	1.	<b>Jee Seok Yoon*</b> and Heung-Il Suk, "AI-based Computer Vision Uses in Kakao Corp.," Communications of the Korean Institute of Information Scientists and Engineers, Vol. 37, No. 2, pp. 52-55, Feb 2019 (Link)

\*First Author(s)

Thank you for your interest.