

Yookoon Park

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Education	Columbia University 2019 – present Ph.D. Student. Computer Science. Advisor: David Blei
	Seoul National University 2017 – 2019 M. Sc. Student. Computer Science and Engineering. Advisor: Gunhee Kim GPA: 4.24 / 4.3
	Seoul National University 2010 – 2016 B. Sc. Computer Science and Engineering & Statistics (Double Major). GPA: 4.0 / 4.3. Summa Cum Laude.
Research	Seoul National University 2017 – 2019 M. Sc. Student and Research Assistant. Vision and Learning Lab. Advisor: Gunhee Kim <ul style="list-style-type: none">• Vairaintal Laplace Autoencoders We propose a novel framework for training deep generative models using the Laplace approximation in order to tackle the challenges in amortized variational inference. <i>In ICML 2019 (lead author).</i>• Conversation Modeling using Variational Autoencoders We propose a hierarchical latent variable model and utterance drop regularization technique to tackle the <i>vanishing KL divergence</i> problem in RNN-VAE models for conversation modeling. <i>In NAACL 2018, oral (lead author).</i>• SplitNet: Learning Tree-like Neural Network Structures We develop a novel group sparse weight regularization to split deep neural networks into tree-like layer structure for parameter reduction and model parallelization. <i>In ICML 2017 (co-first author).</i>
	Seoul National University 2015 – 2016 Undergraduate Research Intern. Vision and Learning Lab. Advisor: Gunhee Kim
Publications	Yookoon Park , Chris Dongjoo Kim, Gunhee Kim. Variational Laplace autoencoders . In <i>ICML, 2019</i> . Paper : http://proceedings.mlr.press/v97/park19a/park19a.pdf Code: http://vision.snu.ac.kr/projects/vlae
	Yookoon Park , Jaemin Cho, Gunhee Kim. A hierarchical latent structure for variational conversation modeling . In <i>NAACL, 2018</i> (Oral). Paper: http://aclweb.org/anthology/N18-1162 Code: http://vision.snu.ac.kr/projects/vhcr

Yookoon Park*, Juyong Kim*, Gunhee Kim, Sung Ju Hwang. **SplitNet: Learning to semantically split deep networks for parameter reduction and model parallelization**. In *ICML, 2017* (Oral and poster). (* equal contribution)
 Paper: <http://proceedings.mlr.press/v70/kim17b/kim17b.pdf>
 Code: <http://vision.snu.ac.kr/projects/splitnet>

Research Interests	Unsupervised Learning, Hierarchical Models and Variational Inference. Machine Learning Applications in Computer Vision and Natural Language.	
Honors	Kwanjeong Educational Foundation Abroad Graduate Student Scholarship.	2019 – present
	Korea Foundation for Advanced Studies (KFAS) Graduate Student Scholarship. Full-tuition and fees.	2017 – 2018
	National Science and Engineering Scholarship. Full-tuition and fees.	2010 – 2016
Teaching Assistant	SNU M1522.001000 Computer Vision SNU 4190.678 Natural Language Processing SNU 4190.101 Discrete Mathematics	Spring 2018 Fall 2017 Spring 2017
Programming Proficiency	Python, TensorFlow and Pytorch.	
Military Service	52 Army Division Military Band, South Korea.	2013 – 2014