Yookoon Park

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Education

Seoul National University 2017 – present
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 – present
M. Sc. Student and Research Assistant. Vision and Learning Lab.
Advisor: Gunhee Kim

- **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.
  In ICML 2017, oral (co-first author).
- **Conversation Modeling using Variational Autoencoders**
  We propose a hierarchical latent variable model and utterance drop regularization technique to tackle the *vanishing KL divergence* problem in RNN-VAE models for conversation modeling.
  In NAACL 2018, oral (lead author).
- **Vairaiontal Laplace Autoencoders**
  We propose a framework for training deep generative models using the Laplace approximation in order to tackle the challenges in amortized variational inference.
  In ICML 2019, oral (lead author).

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 *ICML, 2019*. Code: http://vision.snu.ac.kr/projects/vlae

Yookoon Park, Jaemin Cho, Gunhee Kim. **A hierarchical latent structure for variational conversation modeling**. In *NAACL, 2018* (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	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	Spring 2018
	SNU 4190.678 Natural Language Processing	Fall 2017
	SNU 4190.101 Discrete Mathematics	Spring 2017
English Proficiency	TOEFL IBT 115/120. (Reading: 30, Listening: 30, Speaking: 26, Writing: 29)	
	GRE Verbal: 165/170, Quantitative: 170/170, Analytical Writing 3.5/6.0	
Programming Proficiency	Python, TensorFlow and Pytorch.	
Military Service	52 Army Division Military Band, South Korea.	2013 – 2014