Myeongjang Pyeon

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INTERESTS

I am broadly interested in the fundamentals of deep learning – neural architectures, learning algorithms, and meta learning. The vision is to advance deep learning by being inspired by human brain and cognition. I currently focus on understanding and optimizing greedy learning for neural networks.

EDUCATION

Seoul National University, Seoul, Korea   Sep. 2019 - Current
Master of Science, Computer Science and Engineering (Expected)
Advisor: Prof. Gunhee Kim

Yonsei University, Seoul, Korea   Feb. 2019
Bachelor of Science, Computer Science
GPA: 3.94/4.30 (class rank: 5/51)
Graduation Projects:

- Computational Evaluation of LP-Based Approximation Algorithms (Advisor: Prof. Hyung-Chan An)

- Locally Most Probable String with Probabilistic Finite State Machines (Advisor: Prof. Yo-Sub Han)

PUBLICATIONS

Myeongjang Pyeon, Jihwan Moon, Taeyoung Hahn and Gunhee Kim.   *SEDONA: Search for Decoupled Neural Networks toward Greedy Block-wise Learning* International Conference on Learning Representations (**ICLR 2021**).   Online, 2021.

Insu Jeon, Wonkwang Lee, **Myeongjang Pyeon** and Gunhee Kim.   *IB-GAN: Disengangled Representation Learning With Information Bottleneck Generative Adversarial Networks* AAAI Conference on Artificial Intelligence (**AAAI 2021**).   Online, 2021.

Taeyoung Hahn, **Myeongjang Pyeon** and Gunhee Kim.   *Self-Routing Capsule Networks* Advances in Neural Information Processing Systems (**NeurIPS 2019**). Vancouver, Canada, 2020.

RESEARCH EXPERIENCES

Vision and Learning Lab., Seoul National University   Sep. 2019 - Current
Graduate Research Assistant (Advisor: Prof. Gunhee Kim)   Seoul, Korea

- Worked on deep learning optimization, AutoML, and representation learning.

- 1 ICLR, 1 AAAI papers

Vision and Learning Lab., Seoul National University   Jul. 2018 - Aug. 2019
Research Intern (Advisor: Prof. Gunhee Kim)   Seoul, Korea

- Worked on capsule networks.

- 1 NeurIPS paper

MoNET Lab., Yonsei University College of Medicine   Dec. 2017 - Jun. 2018
Part-Time Developer (Advisor: Prof. Hae-Jeong Park)   Seoul, Korea

- Implemented web framework for psychological experiments (AI engine for emotion recognition & front-end engineering).

- Analyzed medical images with CNNs for classification and diagnosis of ear diseases.

PROFESSIONAL ACTIVITIES

Reviewer of ICCV 2021, NeurIPS 2021, ICLR 2022, and CVPR 2022.

TEACHING EXPERIENCES	TA of Computer Vision (M1522.001000), Fall 2020.
	TA and Guest Lecturer of SNU ML Engineer Course, Fall 2020.
TECHNICAL SKILLS	**Advanced:** Python, PyTorch, Tensorflow, Numpy, LaTeX.
	Moderate: C, C++, SQL, Django, Node.js, JavaScript.
LANGUAGE PROFICIENCY	**English:** Advanced
	Korean: Native