

DUONG H. LE

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EDUCATION

Ho Chi Minh City University of Technology
Department of Computer Science and Engineering
Bachelor of Science (Honors Program)

August 2016 - November 2020

- Cumulative GPA: 8.49/10
- Thesis topics: Toward real-world High-Performance Computing Cluster Job Scheduling with Reinforcement Learning

RESEARCH INTERESTS

3D Scene Understanding, Efficient Deep Learning, Neuro-Symbolic Visual Reasoning

RESEARCH EXPERIENCE

AI Resident

July 2020 - Present

VinAI Research

Mentor: Dr. Binh-Son Hua

- *Network Pruning that Matters*: propose, conduct experiments to demonstrate a counter-intuitive phenomenon in network pruning. The work is later published at ICLR 2021.

Research Assistant

February 2018 - July 2020

High-Performance Computing Lab, Ho Chi Minh City University of Technology

Supervisor: Prof. Thoai Nam

- *Optimizing color-based cooperative caching algorithm for Telco-CDNs*: discuss, clarify the idea of using the Transformer to combine the self-attention and dual-attention model to predict popularity of online contents for caching and write article.
- *Job Scheduling with Reinforcement Learning for High-Performance Computing Cluster*: Propose, implement the hindsight credit assignment methods for input-driven MDP deal with exogenous input processes of jobs arrival.

Research Intern

June 2019 - September 2019

Adaptive Computing Lab, School of Computing, National University of Singapore

Supervisor: Prof. David Hsu

- *GoAnywhere@NUS*: Learn about Imitation Learning, Path Planning and Robotic Operation System (ROS). Configuring the robot, trying different models that leverage the new sensors for car controller, collecting data.

Research Intern

June 2018 - August 2018

Nakagawa Lab, Tokyo University of Agriculture and Technology

Supervisor: Prof. Masaki Nakagawa

- *Apply GAN to improve old Japanese characters recognition*: Implement the GAN network for augment the dataset of old Japanese characters images and conduct experiments.

PUBLICATION

- **Duong H. Le**, Binh-Son Hua. “Network Pruning that Matters: A Case Study with Retraining Variants”. The 9th International Conference on Learning Representations (ICLR) 2021.
- **Duong H. Le**, Nhan Vo Trung, Nam Thoai. “Paying more Attention to Snapshots of Iterative Pruning: Improving Model Compression via Ensemble Distillation”. The 31st British Machine Vision Conference (BMVC) 2020.
- Nguyen, Minh-Tri, **Duong H. Le**, M. Yoshimi T. Nakajima, Masato Yoshimi, and Nam Thoai. ”Attention-based Neural Network: A Novel Approach for Predicting the Popularity of Online Content.” In The IEEE 21th International Conferences on High Performance Computing and Communications. IEEE. 2019. Zhangjiajie, China, 2019 pp. 329-336.

REFERENCE

Nam Thoai, Faculty of Computer Science and Engineering, Ho Chi Minh City University of Technology (HCMUT), Vietnam National University - Ho Chi Minh City (VNUHCM), namthoai@hcmut.edu.vn