Trinh Hoang Trieu



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Education

	Education	
2013 – present	Bachelor of Science Advanced Program in Computer Science	Ho Chi Minh University of Science Vietnam National University
	Research Internships	
May 2016 – July 2016	Misfit Wearables Inc.	Deep Learning for Machine Vision
Work with Tensorflow, Ca	ffe and the integration of Deep Learning on me	obile applications. (detail N/A)
January 2016 – March 2016	Japan Advanced Institute of Science and Technology	Deep Learning for Natural Language Processing
9	code to Tensorflow, experiment new models of Term Memory, Gated Recurrent Unit, CNN - leddings.	

June 2015 – September 2015

Improved vanilla Convolutional baseline for Question Classification on Vietnamese TREC dataset. Ecole Polytechnique de Montreal

Educational Data Mining (EDM)

- Build a computational graph as an open sourced <u>R package</u> to perform educational data synthesizing.
- Automate learning parameters and generating new data under 11 standard models of EDM.

Open-sourced Projects

August 2016 – present (on going)

Darkflow ★112

Python, Tensorflow

- A visual oriented deep learning application, with Tensroflow back-end.
- Allows designing the deep net in text format, training and freezing the graph for production environment.
- Compatible with Darknet framework: load / partial load / extract binary weights.
- Current working models: YOLOv1 and the new **YOLO9000** real time object detection and classification.
- Trained a new YOLO model for object detection and classification in office setting (four classes).
- Featured as a **Awesome Tensorflow repository**.

December 2016 – present (on going)

Essence

C, Cython, Python, Numpy

- A symbolic, Directed Computational Graph constructor, with auto differentiation supported.
- Working optimizers: vanilla Stochastic Gradient Descent, RMSProp and ADAptive Momentum estimator.
- Working demo models: Depth-2 MLP, LeNet with Batch Normalization, Long Short Term Memory on Word2Vec for sentence classification, **Neural Turing Machine** for copying task.
- A selected project on **A Wild Week in A.I. newsletter** #35.

December 2015 – May 2016

Educational Data Synthesizer

R (Statistical Computing Language)

Version 2.0, allow customizing the built-in models and adding new nodes / interactions / models to the graph.

March 2016 – June 2016

Last Layer of DeepNets

Python, Tensorflow

- Modify the last layer of a deep classifier, experiment on SVM and Linear Fisher Discriminant.
- Replace the soft-max with the above linear classifier and perform classification in One-Vs-All scheme.
- Experimented adding a regularizer to encourage feature separability for SVM training.

	Honor, Awards and Scholarships
2016	Wilmar CLV's top 24 students to present at Project presentation round (top 15%)
2016	Japan Student Services Organization (JASSO) Scholarship for Research (top 10%)
2015	America Chamber of Commerce scholarship (top 12%)
2015	Mitacs Globalink Research Full Scholarship (top 7%)
2014	Full Scholarship for First Ranked Student of 2013 - 2014
2013	Full Scholarship, University Entrance Valedictorian
2012	Bronze medal – Southern Vietnam Mathematics Olympiad Third prize – Provincinal Competition