

# Trinh Hoang Trieu

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## Education

2013 – present,  
GPA: 3.90 (May 2016)

Bachelor of Science,  
Advanced Program in Computer Science

Ho Chi Minh University of Science,  
Vietnam National University (VNU)

## Research Internships

May 2016 – July 2016

Misfit Wearables Inc.

Deep Learning for **Computer Vision**

- Work with **Tensorflow**, **Caffe**; bring **Deep Learning models onto mobile devices**.
- Developed two vision applications on iDevices (Objective C++)

January 2016 – March 2016

Japan Advanced Institute of  
Science and Technology

Deep Learning for  
**Natural Language Processing**

- Translate **Theano code to Tensorflow**.
- Experimented: *LSTM*, *GRU*, *CNN - LSTM* on Mikolov's Word2vec embeddings.
- **Improved** Convolutional baseline for Question Classification on TRECvn dataset (91.8% to 94.2% accuracy).

June 2015 – September 2015

Ecole Polytechnique de Montreal

**Educational Data Mining (EDM)**

- **Build computational graph** as an open sourced R package for educational data synthesis.
- Automate learning parameters and generating new data under 11 *standard models of EDM*.

## Open-sourced Projects

December 2015 – May 2016

Educational Data Synthesizer

**R (Statistical Computing Language)**

- **Extended** package: allow customize built-in models, add new nodes/ interactions/ models to the graph.

August 2016 – present (on going)

Darkflow

★ 161

🔗 49

**Python, Tensorflow**

- Designing deep nets in text format, train and *freeze the graph* for production.
- Compatible with Darknet framework: load / partial load / selectively extract binary weights.
- Freezed graph used to produce **Tensorflow's Android demo** with *YOLO9000* detections.
- Selected as an **Awesome Tensorflow** repository.

January 2017 – present (on going)

Essence

★ 26

🔗 5

**C, Numpy**

- Directed Acyclic computational Graph constructor **built from scratch**, with **auto differentiation**.
- Notable demos: LeNet with BatchNorm, **Deep Q-Learning** for inverted pendulum control, **Visual Question Answering** with VGG16 and stack-3 LSTMs on GLOVE features, **Neural Turing Machine** for copying task.
- Working optimizers: SGD, RMSProp and ADAptive Momentum estimator.
- A selected coding project on **A Wild Week in A.I.** newsletter (issue 35).

## Honor and Awards

2016

Wilmar CLV's top 24 students to present at Project presentation round (top 15%)

2016

Asian Undergraduate Summit on Smart City (Singapore) – **10 selected students** from Vietnam National University System of *7 member universities*.

2016

Japan Student Services Organization (JASSO) Scholarship for Research student.

2015

America Chamber of Commerce (AmCham Vietnam) scholarship (top 12%)

2015

Mitacs Globalink Research Full Scholarship (**top 7%**)

2015

International Student Festival in Trondheim – Vietnamese Delegate  
International Student Week in Ilmenau – Vietnamese Delegate

2014

Full Scholarship for **First Ranked Student with Highest GPA of 2013 - 2014**

2014

*Your Online Learning Assistant (YOLA)*'s Full Scholarship (**top 1%**)

2013

Full Scholarship, University Entrance **Valedictorian**

2012

Southern Vietnam **Mathematics Olympiad Medalist**