# Duy Tin Vo, Ph.D.

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| Google Scholar | Gender: Male |
| Email: duytinvo@gmail.com | Nationality: Vietnamese |
| URL: https://duytinvo.github.io | Date of Birth: 07/04/1989 |
| Address: Calgary, Alberta, Canada | Phone: +1 418-573-4714 |

**Research**

Sentiment Analysis, Text Classification, Sequence Labeling
Multilingual: E-community Toxicity, Language Identification
Machine Learning, Neural Network, Deep Learning
Natural Language Processing, Artificial Intelligence

**Education**

**Ph.D., Computer Science - Language Technologies**
Singapore University of Technology and Design, Singapore, 09/2013-09/2017
Thesis title: Sentiment Analysis for Short Texts Based on Neural Networks
Advisor: Yue Zhang
GPA: 4.11/5.0 (Research Merit Award Winner)
**B.Eng., Electronics and Telecommunication**
Cantho University, Vietnam, 2007-2011
GPA: 3.65/4.0 (First-class honor)

**Experience**

**Data Scientist**
at Chata.ai, Canada, 07/2018 - *now*
Join in the R&D team to develop an aspect-based sentiment analysis system
and deploy into production.
**Postdoctoral Fellow (MITACS program)**
at Université Laval, Canada, 12/2017 - 06/2018
Manage a research team in the project of E-Community Health and Toxicity
**Research Intern (MITACS program)**
at Twohat Security, Canada, 04/2018 - 06/2018
Build several neural network modules in language and subversive detection.
**Research Intern**
at University of Ottawa, Canada, 01/2017-06/2017
Build a very deep neural network for text classification under the supervision of
Prof. Diana Inkpen and Dr. Xiaodan Zhu
**Teaching Assistant**
at Singapore University of Technology and Design, Singapore, 09/2014-09/2016
Assist in teaching two courses: computational structures and database
**Lecturer**
at Cantho University, Vietnam, 06/2011-09/2013
Work as a lecturer to teach fundamental courses: programming languages,
engineering mathematics, digital signal processing, etc.

|         |                                                             |
|---------|-------------------------------------------------------------|
| Skill   | Python, NLP packages (sklearn, gensim, NLTK, CoreNLP, ...)   |
|         | Deep Learning libraries (keras, theano, tensorflow, pytorch) |
|         | Cloud Computing services (AWS: S3, SageMaker, EC2, AMI; Valohai) |
|         | Docker, Github, Basecamp, LaTeX, Markdown                   |
|         | Cython, C++, Matlab, SQL, Java                              |
|         | Linux, Windows, macOS                                       |

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|-------------|-------------------------------------------------------------|
| Certificate | **Cadence - HEEAP Training** |
|             | at HCMC University of Technology and Education, Vietnam, 2011 |
|             | The Higher Engineering Education Alliance Program, Arizona State University |
|             | **Teaching Methodology** |
|             | at Can Tho University, Vietnam, 2011 |

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| Language | Vietnamese (native), English (fluent)      |

## Publication

1. **Duy Tin Vo**, Yue Zhang and Xiaodan Zhu. Shallow Network with Rich Features for Text Classification. In CICLing 2018, Hanoi, Vietnam.

2. Zhiyang Teng, **Duy Tin Vo** and Yue Zhang. Context - Sensitive Lexicon Features for Neural Sentiment Analysis. In Proceedings of EMNLP 2016, Texas, USA, November.

3. **Duy Tin Vo** and Yue Zhang. Don't Count, Predict! An Automatic Approach to Learning Sentiment Lexicons for Short Text. In Proceedings of ACL 2016, Berlin, Germany, August.

4. Meishan Zhang, Yue Zhang and **Duy Tin Vo**. Gated Neural Networks for Targeted Sentiment Analysis. In Proceedings of AAAI 2016, Phoenix, Arizona, USA, February.

5. Meishan Zhang, Yue Zhang and **Duy Tin Vo**. Neural Networks for Open Domain Targeted Sentiment. In proceedings of EMNLP 2015, Lisboa, Portugal, September.

6. **Duy Tin Vo** and Yue Zhang. Target-dependent Twitter Sentiment Classification with Rich Automatic Features. In Proceedings of IJCAI 2015, Buenos Aires, Argentina, July.

## Talk

- **Duy Tin Vo**. Neural Network Methods for Targeted Sentiment Extraction. An invited talk to Deep Learning Summit Asia 2016, Singapore, October.

- Yue Zhang and **Duy Tin Vo**. Neural Networks for Sentiment Analysis. Tutorial at EMNLP 2016, Texas, USA, November.

## Service

- PC member: Conference on Natural Language Proocessing & Chinese Computing (2016); Joint Conference on Chinese Language Processing (2016); International Conference on Computational Linguistics (2018).

- Sub-Reviewer: Association for the Advancement of Artificial Intelligence Conference (2017); European Chapter of the Association for Computational Linguistics (2017); Conference of the

International Speech Communication Association (2017); Conference on Neural Information Processing Systems (2017); Annual Meeting of the Association for Computational Linguistics (2018).

## Achievement

- City Honours in mathematics (2007).
- Regional Honours in solving mathematics by calculator (2007).
- Top 5 of the entrance examination of Cantho University (2007).
- Certificate of Ho Chi Minh Communist Youth Union for good achievements (2009).
- Certificate of Can Tho University for excellent students (2010).
- Certificate of College of Engineering Technology for the high distinction degree (2011).
- 1st Class Honours of Can Tho University (2011).

## Award

- **Boeing Scholarship** (2007)
  for excellent engineering students.
- **Sunflower Mission Engineering & Technology Scholarship** (2008, 2009, 2010, 2011)
  for academic achievement, leadership excellence and community service.
- **Talent Holcim Scholarship** (2009)
  for excellent engineering students.
- **Korean & Vietnamese Foundation Scholarship** (2009, 2010)
  for excellent engineering students.
- **Biti's Scholarship** (2009, 2010)
  for the poor students with good academic results.
- **LienViet Bank's Scholarship** (2011)
  for excellent students.
- **Huawei & Ministry of Information and Communications Scholarship** (2011)
  for outstanding achievements.
- **SUTD President's Graduate Fellowship** (2013).
- **Merit Award Winner** (2017)
  for graduate research presentation at SUTD FIRST industry workshop.

## Reference

- **Yue Zhang**, Westlake University, China
  Associate Professor in NLP
  yue.zhang@wias.org.cn
- **Xiaodan Zhu**, Queen's University, Canada
  Assistant Professor in NLP
  Xiaodan.Zhu@Queensu.ca

- **Richard Khoury**, Université Laval, Canada
  Associate Professor in NLP
  richard.khoury@ift.ulaval.ca

- **Luong Vinh Quoc Danh**, Cantho University
  Senior Lecturer, Head of the Department of Electronics and Telecommunication Engineering
  lvqd@ctu.edu.vn

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