

# Yong Zhang, Ph.D.

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## —Education—

**2013-2017 (expected) PhD**, School of ELectrical and Electronic, Nanyang Technological Univeristy, Singapore; GPA – 4.92/5.0

Thesis title: *Semantic Representation Learning for Natural Language Understanding*

**2009-2013 B.Eng**, School of Electrical Engineering and Automation, Zhejiang University, China; GPA – 3.88/4.0

*First-class Honer graduate*

## —Experience—

### PhD researcher (Nanyang Technological University)

Designed and developed several innovative machine learning algorithms for regression and classification with specific applications in natural language understanding applications.

- Developed an algorithm named Multi-view Convolutional Neural Network and applied to multi-document summarization. The work is published in *IEEE Trans. on Cybernetics*.
- Proposed an innovative pooling strategy for Convolutional Neural Network based on attention mechanism and applied to sentence classification. The work is published in *Information Sciences*.
- Designed an active learning model based on extreme learning machine and meta-cognitive learning. The work is published in *Neurocomputing*.
- Hands on experience with keras, theano, tensorflow.

### Intern (GroupM: Largest Media Investment Company across the world)

Participated in the Audience Demography Estimation project which uses machine learning models to predict audience demography based on users' browsing logs for targeted advertising.

- Built web crawler to parse webpages and scrape information.
- Designed feature representation models.
- Employed various advanced estimation models to predict audience demography attributes, (i.e., gender, age, house income).
- Performed ETL for large volumes of online event-level (user-level) data for data cleansing and preparation.

### Teaching Assistant (Nanyang Technological Univeristy)

Performed grading, supervised lab sessions, evaluated final presentations for courses in EEE undergraduate programs in Electric Field, Magnetic Field, Transformer, and Electrical Motor.

## —Programming—

Adept: Python, R

Basic: C, C++, HTML, SQL, Hive