**Education** **University of Sydney (USYD)** Sydney, Australia

*Doctor of Philosophy, Artificial Intelligence* 02/2019 – current

Research Topic: Pre-training for the Semantic Parsing

**The Australian National University** Canberra, Australia

*Master of Computing (Advanced), Artificial Intelligence* 02/2014 – 12/2015

Master’s Thesis: Representation Learning for Weakly Supervised Relation Extraction

**Wuhan University of Science and Technology** Wuhan, China

*Bachelor of Engineering, Electrical Engineering* 09/2009 – 06/2013

**Experience Microsoft Search Technology Center Asia (STCA)** Suzhou, China

*Software Development Engineer* 06/2017 – 12/2018

* Developed a semantic parsing-based factoid question answering system.
* Built a probabilistic taxonomy for the text understanding.
* Maintaining the language understanding components, including the domain and intent classification models and the slot tagging models, in Cortana question answering system and Bing search engine.
* Working on the new Cortana chat-bot framework design and implementation.

**Hong Kong Applied Science & Technology Research Institute (ASTRI)**

*Engineer (Cloud Computing)* 09/2016 – 06/2017

* Conducted research on machine learning approaches for the time series prediction.
* Designed and implemented machine learning algorithms for the trading strategy generation and portfolio management.

**Wuhan University** Wuhan, China

*Visiting Student* 07/2016 – 08/2016

* Worked on improving the Twitter semantic similarity system using the neural probabilistic language model and unsupervised representation learning approaches.

**National ICT Australia Ltd (NICTA)** Canberra, Australia

*Visiting Student* 03/2015 – 06/2016

* Conducted master’s thesis research.
* Helped develop NICTA's private deep learning toolkit DL-IE which includes common deep learning algorithms for natural language processing tasks.
* Worked on improving the performance of relation extraction systems using various deep neural relation extraction models and unsupervised representation learning approaches.
* Resulted in one article published in the Workshop of The Australasian Language Technology Association.

**Publications** Li, Z., Qu, L., Xu, Q., & Johnson, M. (December 5th, 2016). Unsupervised Pre-training with Sequence Reconstruction Loss for Deep Relation Extraction Models. *Workshop of The Australasian Language Technology Association*.

Liu, H., Chen, K., & Li, Z., etc. (April 24th, 2013). Design and Implementation of Information Processing System based on STM Single Chip Microprocessor. *Information Technology*.

Huang, Q., Liu, B., Li, Z. (December 25th, 2012). Multi-focus Image Fusion Method based on Three Channels Non-separable Symmetrical Wavelets. *Journal of Hubei University*.

**Programming** ***Languages*** ***Skills***

Java Machine Learning Application Development

Python Natural Language Processing Application Development

C/C++ Relational and NoSQL Database

Scala Concurrent and Distributed Computing

Latex Web Development

Html Algorithm and Data Structure

**Awards** IEEE Xtreme Programming Competition 8.0 The Australian National University

Team Rank: Australia – 2nd, World – Top 100 10/2014

**Languages** English (Advanced)

Mandarin (Native Speaker)

**Github Link** https://github.com/zhuang-li