**Education** **Monash University** Melbourne, Australia

*Doctor of Philosophy, Artificial Intelligence* 08/2019 – current

Research Topic: Semantic Parsing for Dialogue

Supervisors: Dr. Lizhen Qu, A/Prof. Gholamreza Haffari, Prof. Philip Cohen

**University of Sydney (transfer)** Sydney, Australia

*Doctor of Philosophy, Artificial Intelligence* 02/2019 – 07/2019

Research Topic: Semantic Parsing for Dialogue

Supervisor: Prof. Dacheng Tao

**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

Supervisor: Dr. Lizhen Qu

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

*Bachelor of Engineering, Electronic Information Engineering* 09/2009 – 06/2013

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

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

STCA NLP group, Supervisors: Dr. Yang Yang, Dr. Daxin Jiang

* Developed a semantic parsing-based factoid question answering system.
* Built a probabilistic taxonomy for the text understanding.
* Maintained 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.
* Worked 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.

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

*Visiting Student* 03/2015 – 06/2016

Supervisor: Dr. Lizhen Qu

* 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., Huang, S., & Haffari, G. Few-shot Learning for Semantic Parsing. *16th conference of the European Chapter of the Association for Computational Linguistics*

Huang, S., Li, Z., Qu, L. On the Robustness to Semantic Parsing. *16th conference of the European Chapter of the Association for Computational Linguistics*

Li, Z., Qu, L., & Haffari, G. (December 8th, 2020). Context Dependent Semantic Parsing: A Survey. *The 28th International Conference on Computational Linguistics*

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*.

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

Python Machine Learning Application Development

Java Natural Language Processing Application Development

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