Zhuang Li

Melbourne, Australia
Zhuang.Li@monash.edu.au

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, Dr. 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

Adobe Research San Jose, U.S.
Virtual Research Intern 09/2021 – current
Supervisor: Dr. Quan Hung Tran
- Multimodal scene graph parsing.

Openstream.ai Seattle, U.S.
Virtual Research Intern 06/2021 – 09/2021
Supervisor: Dr. Philip Cohen
- Automatic data curation for semantic parsing
- Multi-task semantic parsing.

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
- Development of the semantic parsing-based factoid question answering system.
- Maintenance of 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.
- Design and implementation of Cortana chat-bot framework.

Hong Kong Applied Science & Technology Research Institute (ASTRI)
Engineer (Cloud Computing) 09/2016 – 06/2017
- Research on time series prediction.
- Implementation of 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
- Mater thesis research.
- Development of the deep learning toolkit.
- Unsupervised learning and neural relation extraction models.

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<u>Publications</u> Li, Z., Qu, L., & Haffari, G. Total Recall: a Customized Continual Learning Method for Neural Semantic Parsers. *The 2021 Conference on Empirical Methods in Natural Language Processing*

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*.

<u>Programming</u> *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

<u>Awards</u> IEEE Xtreme Programming Competition 8.0　　The Australian National University
Team Rank: Australia – 2nd, World – Top 100　　　　　　　　　　　　　10/2014

<u>Languages</u> English (Advanced)
Mandarin (Native Speaker)

<u>Github Link</u> https://github.com/zhuang-li