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, 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*

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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