Zhuang Li

Sydney, Australia
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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*.

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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