Jiangming Liu

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EDUCATION

Beijing Jiaotong University, Beijing, China

Master of Computer Science (M.S) in Computer Science and Technology   Sep 2012 – Apr 2015
- Thesis: Japanese Case Grammar Constraints on Hierarchical Phrase-based Statistical Machine Translation
- Adviser: Professor JinAn Xu
- Major GPA: 3.78/4

Bachelor of Computer Science (B.S) in Computer Science and Technology   Sep 2008 – Jul 2012
- Gradutaed with merit honors
- Cumulative GPA: 3.77/4

Verified Certificate of "Introduction to Finance" authorized by University of Michigan on Coursera.

RESEARCH EXPERIENCE

Singapore University of Technology Design, Singapore

Research Assistant , Natural Language Processing Group   May 2015 – present
Advisor: Prof. Yue Zhang
  Project: *China Capital Market and Unstructured Data*
- Event detection and extraction.
  Project: *Cross-Functional Information Systems for Decision Making*
- Target-dependent sentiment analysis.
  Project: *Statistical Machine Translation by Syntactic Transfer*
- Neural syntactic parsing

Northeastern University, China

Visiting student, Natural Language Processing Group   Jan 2015 – Feb 2015
Advisors: Prof. Tong Xiao and Prof. Jinbo Zhu
  Research: *Japanese-Chinese Statistical Machine Translation*
- Japanese case grammar (linguistics) constrains on conventional hierarchical phrase-based model (statistics).

Chinese Academy of Sciences, Institute of Computing Technology, China

Visiting student, Natural Language Processing Group   Nov 2013 – Dec 2014
- Advisors: Prof. Wenbin Jiang and Prof. Qun Liu
  Project: *Japanese Morphology Analysis and Dependency Analysis*
- Japanese morphology analysis and Japanese dependency analysis

Beijing JiaoTong University, the school of computer and information technology, China

Graduate student, Natural Language Processing Group   Jul 2012 – Apr 2015
- Advisor: Prof.JinAn Xu
  Project: *Case Dependency-String based Japanese-Chinese Machine Translation*
- Analysis on the case grammar and the case dependency tree structure
  Project: *The Automatic Acquisition of Lexical Semantic Relationship*
- Extraction of Chinese hyponymy relation between words from fruitful web resource, achieving best results in the task of extraction of semantic relationship in NLP&CC2012.
  Research: *The Chinese Word Similarity Computation*
- Analysis on the sememe similarity and the hierarchical structure similarity in Chinese.
  Research: *Text Summarization*
- Designed rich sentence-level features and document-level features, which are fed to text summarization.

Undergraduate student, Natural Language Processing Group   May 2011 – Jun 2012
- Advisors: Prof. Wei Xu and Prof. JinAn Xu
  Project: *Public Opinion Analysis on the Web*
- Team leader
- Designed web crawlers to obtain comments on news and products.
- Designed the system to automatically analyze sentential sentiments in coarse-level (positive, negative and neutral), or in fine-level (expect, joy, love, surprise, anxiety, sorrow, angry and hate).

PUBLICATIONS

9) **Jiangming Liu** and Yue Zhang, In-Order Transition-based Constituent Parsing System. Accepted by *TACL* . 2017

8) **Jiangming Liu** and Yue Zhang, Encoder-Decoder Shift-Reduce Syntactic Parsing.   In *arXiv:1706.07905*. Jun 2017.

7) **Jiangming Liu** and Yue Zhang, Attention Modeling for Targeted Sentiment. In *Proceedings of the European Chapter of the Association for Computational Linguistics (EACL)*. Valencia, Spain, Apr 2017.

6) **Jiangming Liu** and Yue Zhang, Shift-Reduce Constituent Parsing with Neural Lookahead Features. In *Transactions of the Association of Computational Linguistics (TACL)*. Jan 2017.

5) **Jiangming Liu** and Yue Zhang, An Empirical Comparison Between N-gram and Syntactic Language Model for Word Ordering. In *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Lisboa, Portugal, Sep 2015.

4) JinAn Xu, **Jiangming Liu**, Yufeng Chen, Yujie Zhang, Fang Ming and Shaotong Li, Integrating Case Frame into Japanese to Chinese Hierarchical Phrase-based Translation Model. In *workshop of Semantics-Driven Statistical Machine Translation (S2MT) in ACL*. Beijing, China, Jul 2015.

3) **Jiangming Liu**, JinAn Xu, Jun Xie and Yujie Zhang, Case Frame Constraints For Hierarchical Phrase-based Translation: Japanese-Chinese as an Example. In *Proceedings of the conference on Natural Language Processing & Chinese Computing (NLP&CC)*. Shenzhen, China, Dec 2014. Published in Lecture Note in Computer Science, Springer.

2) **Jiangming Liu**, JinAn Xu and Yujie Zhang, An Approach of Hybrid Hierarchical Structure for Word Similarity Computing by HowNet. In *Proceedings of the International Joint Conference of Natural Language Processing (IJCNLP)*. Nagoya, Japan, Oct 2013.

1) **Jiangming Liu**, JinAn Xu and Yujie Zhang, Summarization Based on Hidden Topic Markov Model with Multi-Feature. In *Proceedings of the conference on Natural Language Processing & Chinese Computing (NLP&CC)*. Chongqing, China, Oct 2013. Publiced on the journal of Acta Scientiarum Naturalium Universitatis Pekinensis.

ACADEMIC HONORS & AWARDS	Beijing Jiaotong University scholarship For outstanding students.	2008 – 2015
	National scholarship For outstanding scientific contributions.	Oct 2013

PROFESSIONAL SERVICE PC for conference: ACL (2017, 16 [second reviewer]), EMNLP (2017, 16 [second reviewer]), IJCNLP (2017), NLPCC (2016), CLP (2016)

INDUSTRIAL WORK EXPERIENCE

TorangeTek, Chinese Academy of Science Beijing, China
Intern, machine translation project   Feb 2012 – Aug 2012
  • Investigation on translation memory system.

PROGRAMMING & CODES
C++, Python
Code Share: https://github.com/LeonCrashCode
Group Code Share: https://github.com/SUTDNLP

[CV compiled on 2017-07-11]