Jiangming Liu

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EDUCATION & HONORS

09/2012 – 03/2015 Master, Computer Science School of CIT, Beijing Jiaotong University
09/2008 – 07/2012 Bachelor, Computer Science School of CIT, Beijing Jiaotong University, GPA 3.5, Rank: 13/180

The Graduate National Scholarship (6/230)
The Scholarship in Beijing Jiaotong University (6 times)
The Honorable Mention of the 35th ACM International Collegiate Programming Asia Regional Context
The Third prize of Works of science and technology of School of Computer and Information Technology
The Third prize of CIT Undergraduate Mathematical Contest in Modeling

SKILLS

Programming language: Experienced: C++; Prior experience: C, JAVA, Python, JavaScript, Html
Familiar with: Moses, Stanford-parser, GIZA++ and most of other toolkits on natural language processing

WORK

***Intern*, Institute of Computing Technology, Chinese Academy of Science** Beijing 02/2012-08/2012

- Utilized Pattern Matching and Effective Dictionary to develop the speed of Statistic Machine Translation
- Designed Translation Memory to assist Statistic Machine Translation on line

RESEARCH & PROJECT

***Visiting student*, Institute of Computing Technology, Chinese Academy of Sciences** 11/2013-present
Project: Japanese Morphology Analysis and dependency analysis (11/2013-05/2014)

- Wrote all codes in Japanese morphology analysis tool
- Wrote all codes in Japanese dependency analysis tool associated with case grammar

***Research Assistant*, Natural Language Process Group, Beijing Jiaotong University** 06/2012-present
Research: Multi-Document Summarization (07/2012 - present)

- Designed two-stage framework to summarization
- Designed hybrid topic model to summarization: topic model, surface model and topic transition model

Project: Semantic-based Statistical Machine Translation (supported by Nation Foundation)(07/2012 – present)

- Designed semantic constraints on traditional statistical machine translation model: rule extraction.
- Designed a new semantic tree structure suitable for SMT model

Project: The Automatic Acquisition of Lexical Semantic Relationship (07/2012 – 11/2012)

- Designed Chinese *is-a* pattern referred to English *is-a* pattern
- Considered characteristics of Chinese words (word formation), which comes from large numbers of web resources.

Research: The Semantic Computation (06/2012-07/2013)

- Proposed a method considering sememe relationships and concept hierarchical structure or sub-structure.

***Team leader*, College Innovative Project, Beijing Jiaotong University** 05/2011-06/2012
Project: The main Technology of Public Opinion Analysis in web (supported by Nation) (05/2011-06/2012)

- Utilized probability model, sentiment corpus and knowledge base (HowNet) for Sentiment Analysis.
- Designed crawlers in web to get vast of comments on news, production and so on.

Research: The Analysis of Sentiment in sentence level (10/2011-06/2012)

- Measured sentiment in sentence by three parts (positive, negative, neuter) and by eight parts (expect, joy, love, surprise, anxiety, sorrow, angry and hate) referred to Ren-CECps.

PUBLICATION & PAPER

- **Jiangming Liu**, Jian Xu, Yujie Zhang. An Approach of Hybrid Hierarchical Structure for Word Similarity Computing by HowNet. *The 6th International Joint Conference on Natural Language Processing (IJCNLP)*, 2013.
- **Jiangming Liu**, Jian Xu, Yujie Zhang. Summarization Based on Hidden Topic Markov Model with Multi-Feature. *the 2st CCF Conference on Natural Language Processing & Chinese Computing (NLP&CC)*. 2013. Publiced in Acta Scientiarum Naturalium Universitatis Pekinensis (ASNUP).
- Ziyu Zhao, Jian Xu, Yujie Zhang, **Jiangming Liu**. Japanese Time Expression Recognition by Combining Rules with Statistics. *The Twelfth China National Conference on Computational Linguistics (CCL 2013)*, 2013. Publiced in Journal of Chinese Information Processing.
- **Jiangming Liu**, Jian Xu, Yujie Zhang. A Word Similarity Computing Method Based on Concepts Multi-Layer Structure and Sememe Multi-Modify Relationship of HowNet. *The 6th Youth Conference of Computational Linguisties(YCCL)*, 2012, page: 60-68.
- **Jiangming Liu,** Jian Xu, Peihao Wu, Yujie Zhang. Automatic Acquisition of Lexical Semantic Relationship based on Web Resource. *Evaluation Task in the 1st CCF Conference on Natural Language Processing & Chinese Computing (NLP&CC)*, 2012.