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Qingqing Cai

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EDUCATION

Temple University *2011.9 - present*
Master Candidate in Computer & Information Science
GPA: 3.93/4.0; Admitted as **Presidential Fellowship**

Soochow University *2007.9 - 2011.6*
Bachelor Degree in Software Engineering
GPA: 90/100; Ranking: 1/37

RESEARCH EXPERIENCE

Research on Semantic Parsing 2011.9 - Present
Temple University *Advisor: Dr. Alexander Yates*

- Build a new dataset as testbed for semantic parsing across multiple domains. The dataset contains 917 natural language questions and corresponding meaning representations;
- Implemented a matching system (with recall of 0.8) to identify natural language words that correspond with each relation in a fixed schema for a relational database;
- Implemented a cross-domain semantic parser system which is capable of parsing questions on a large variety of domains with an F1 of 0.63;

Research on Information Retrieval 2009.10 - 2010.12
Soochow University *Advisor: Dr. Yu Hong*

- Proposed a re-ranking model to improve information retrieval performance using Boolean model, VSM consine and Kullback-Linear divergence;
- Implemented an information retrieval system on TDT4 corpus, with MAP of 0.74;

PUBLICATION

Qingqing Cai and Alexander Yates. Large-scale Semantic Parsing via Schema Matching and Lexicon Extension. *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL), 2013.* (**Nominated as the Best Paper**)

Qingqing Cai and Alexander Yates. Semantic Parsing Freebase: Towards Open-domain Semantic Parsing. *Proceedings of the Second Joint Conference on Lexical and Computational Semantics (*SEM), 2013.*

Yu Hong, Qingqing Cai, Song Hua, Jianmin Yao and Qiaoming Zhu. Negative Feedback: The Forsaken Nature Available for Re-ranking. *Proceedings of the 23rd International Conference on Computational Linguistics:Posters (COLING), 2010.*

STRENGTHS

Languages	Java(expert), C++(prior experience), Python(familiar)
ML Algorithm	Language Model, Maximum Entropy, HMM, etc.
NLP Software	NLP pre-processing tools such as taggers, parser, etc.
	Eclipse, Lucene, Weka, Linux, Visual Studio, Matlab