Areas of Interest

- Natural Language Processing and Machine Learning
- Algorithmic Game Theory

Education

Shanghai Jiao Tong University

Shanghai, China

School of Electronic Information and Electrical Engineering Sep. 2013 – Jul. 2016 (expected)

- o B.S., Computer Science
- o Overall GPA(141 credits): 94.50/100, Rank: 1/122
- o Good mathematics training: All 11 math courses are above A and 10 of them are over A+.

Shanghai Jiao Tong University

Shanghai, China

SJTU-ParisTech Elite Institute of Technology (SPEIT)

Sep. 2012 - Jul. 2013

o Overall GPA(77.5 credits): 92.85/100, Rank: 1/62

Research Experience

Neural Networks Approach for Fine-grained Opinion Extraction Ithaca, NY, USA NLP group, Cornell University

Aug. 2015 – Dec. 2015

- o Advisor: Claire Cardie
- Designed heuristic rules using dependency parse tree to eliminate inappropriate opinion candidates during inference. Empirical results showed higher precision and higher F-measure.
- \circ Proposed to use deep recurrent neural networks to produce the *n-best* labeling sequences, which can be fed into integer linear programming (ILP) system for joint inference.
- Proposed to evaluate labeling sequences using **Sentence-Level Log-Likelihood (SLL)** at the output layer of deep recurrent neural networks. Empirical results showed over **5**% improvement on F-measure of opinion target extraction and accurate ranking for *n-best* labeling sequences.
- Building an ensemble system using the above algorithm to participate in Belief and Sentiment Evaluation 2015 (**BeSt2015**).

Online Auction Mechanism Design with Time-varying Value Shanghai, China Shanghai Key Laboratory of Scalable Computing and Systems Jun. 2014 – Jun. 2015

- o Advisor: Fan Wu
- Proposed the new scenario in online auction mechanism design where bidder's value may vary over time.
- Extended the classic payment determination algorithm (Myerson) to fit the new model. Proposed mechanism ensured strategy-proofness and achieved constant competitive ratio.
- Technical Paper: http://sjtudxy.github.io/papers/techPaper.pdf

User Demographics Mining from Massive SMS Dataset

Shanghai, China

IIOT research center, Shanghai Jiao Tong University

Jun. 2015 - Sep. 2015

- o Advisor: Xinbing Wang
- Processed a massive and noisy SMS dataset, designed a filter to reduce noise and finally created a gold-standard dataset regarding user demographics with clustering method.
- Built a system to do classification on the demographics information of users for whom we can provide targeted advertisements.

Awards & Honors

- National Scholarship 2013 Highest honor for undergraduates in China, awarded to top 1% students
- Shanghai Undergraduate Mathematical Contest in Modeling 2014 The Second Prize
- Shanghai Jiao Tong University Excellent Student Scholarship 2014
- National Olympiad in Mathematics in Provinces 2011 The First Prize
- National Olympiad in Chemistry in Provinces 2011 The First Prize
- National Olympiad in Informatics in Provinces 2010 The First Prize

Selected Course Projects

https://github.com/sjtudxy

SmallC Compiler

Shanghai, China

Shanghai Jiao Tong Univeristy

Oct. 2014 - Dec. 2014

- Built a compiler translating the basic C source code to MIPS assembly code with Lex and Yacc.
- Top performance in testing, Score: 100/100

Design and Implementation of File System

Shanghai, China

Shanghai Jiao Tong Univeristy

May. 2014 - Jun. 2014

- Designed and implemented a basic disk-like secondary storage server as well as a basic file system to act as a client, which uses the disk services provided by the server.
- Top performance in testing, Score: 100/100

Skills

- Natural Languages: Chinese (mother tongue), English (fluent), French (basic)
- Programming Languages: C/C++, Python, Java, LATEX, Matlab, Mathematica
- Operating Systems: Linux, Mac OS X, Windows
- Software: Stanford CoreNLP, Eclipse, VisualStudio SDK, Lex, Yacc

Volunteering Activities

• Volunteer of Shanghai Library

Aug. 2014

• Secretary of Team of Youth Volunteers, SJTU

Sep. 2012 - Jul. 2013

• Volunteer of Asia Student Supercomputer Challenge (ASC)

May. 2013

• Voluntary blood donation

Apr. 2013