Zhili Feng

4200 University Ave, Apt 310-B
Madison, Wisconsin 53705
(217) 417-1852
zfeng49@cs.wisc.edu

EDUCATION

Master of Science in Computer Science Sept 2017 - Present
University of Wisconsin-Madison

Bachelor of Science in Computer Science Aug 2013 - May 2017
University of Illinois at Urbana-Champaign
Thesis: *A Combination of Statistical Model and Rule-based Approach to Temporal Extraction and Normalization*

TEACHING EXPERIENCE

Teaching Assistant Sept 2018 - Dec 2018
University of Wisconsin-Madison
- Teaching CS525 Linear Programming Methods

Teaching Assistant Jan 2018 - Jun 2018
University of Wisconsin-Madison
- Teaching CS577 Introduction to Algorithms

Teaching Assistant Sept 2017 - Dec 2017
University of Wisconsin-Madison
- Teaching CS240 Introduction to Discrete Mathematics

Course Staff Aug 2016 - Dec 2016
University of Illinois at Urbana-Champaign
- Grading CS446 Machine Learning

PUBLICATION

1. Qiang Ning, Ben Zhou, Zhili Feng, Haoruo Peng, and Dan Roth. Cogcomptime: A tool for understanding time in natural language. In *EMNLP*, Brussels, Belgium, 11 2018. Association for Computational Linguistics

2. Qiang Ning, Zhili Feng, Hao Wu, and Dan Roth. Joint reasoning for temporal and causal relations. In *ACL*, pages 2278–2288, Melbourne, Australia, 7 2018. Association for Computational Linguistics

3. Zhili Feng and Po-Ling Loh. Online learning with Graph-Structured feedback against adaptive adversaries. In *2018 IEEE International Symposium on Information Theory (ISIT) (ISIT'2018)*, Vail, USA, June 2018

4. Daniel Khashabi, Mark Sammons, Ben Zhou, Tom Redman, Christos Christodoulopoulos, Vivek Srikumar, Nicholas Rizzolo, Lev Ratinov, Guanheng Luo, Quang Do, Chen-Tse Tsai, Subhro Roy, Stephen Mayhew, Zhili Feng, John Wieting, Xiaodong Yu, Yangqiu Song, Shashank Gupta, Shyam Upadhyay, Naveen Arivazhagan, Qiang Ning, Shaoshi Ling, and Dan Roth. Cogcompnlp: Your swiss army knife for nlp. In *11th Language Resources and Evaluation Conference*, 2018

5. Qiang Ning, Zhili Feng, and Dan Roth. A structured learning approach to temporal relation extraction. In *EMNLP*, pages 1038–1048, Copenhagen, Denmark, 9 2017. Association for Computational Linguistics

RESEARCH EXPERIENCE

Graduate Researcher   Aug 2017 - Present
Advised by Professor Po-Ling Loh
University of Wisconsin-Madison

- Study various online learning models with different feedback structures, and against different adversaries
- Study the theoretical analysis of data augmentation

Undergraduate Researcher   Aug 2016 - Aug 2017
Advised by Professor Dan Roth
Cognitive Computation Group
University of Illinois at Urbana-Champaign

- Integrate HeidelTime into Illinois shallow parser to extract and normalize temporal expressions
- Create shallow parser for temporal extraction; create rule-based system for temporal normalization following TIMEX3 standard; combining temporal extractor and normalizer into CogComp pipeline
- Work on temporal reasoning related problems, focus on timeline construction, and exploit graph structures of events and time to reveal temporal relations

Undergraduate Researcher   Mar 2015 - Aug 2016
Advised by Professor Mani Golparvar-Fard
Real-time and Automated Monitoring and Control Lab
University of Illinois at Urbana-Champaign

- Use construction images collections, as-built model visualization, and Building Information Models (BIM) to automatically track construction progress
- Create JavaScript APIs to retrieve IFC (Industry Foundation Classes) files from BIMServer, create data structures, and store geometry information in these data structures
- Create JavaScript APIs to read data including vertices, normals, and colors from specific data structures, apply transformation matrices to the geometry, and use ThreeJS to render objects to the webpage
- Create scheduler for user to check the construction progress up to a certain time, and make queries correspondingly from the server

PROFESSIONAL EXPERIENCE

Software Engineering Intern   May 2017 - Aug 2017
Facebook, Menlo Park, CA

- Design systems that increase end-to-end test coverage for diffs
- Migrate test coverage data from MySQL to other scalable database, while preserving low read latency and data availability

Software Engineering Intern   May 2016 - Aug 2016
Facebook, Menlo Park, CA

- Use TF-IDF and cosine similarity to detect highly similar comments
- Use GBDT and Logistic Regression models to check ads quality
- Create ads under-delivery diagnostic tool using Hack and Scuba table

Software Engineering Intern   May 2015 - Aug 2015
Marketo, San Mateo, CA

- Create Java APIs to check list-importing progress. Use Hibernate ORM to map MySQL database to a Java DAO class and count number of lists being imported
- Create Java REST APIs which make queries through SOAP message senders to check the connection between Marketo and Microsoft Dynamics CRM. Use ExtJS to create the GUI and make AJAX calls to communicate with the back-end
- Use Mockito framework to create unit tests for all the APIs

HONOR & AWARDS

Summer Research Assistantship Award
University of Wisconsin-Madison
- Summer 2018

Dean's List
University of Illinois at Urbana-Champaign
- Fall 2013, Spring 2014, Fall 2014, Spring 2015, Spring 2016

Edmund J James Scholar
University of Illinois at Urbana-Champaign
- Academic Year 2013-2014