Fei Liu | Resumé

Education

The University of Melbourne

Doctor of Philosophy

Natural Language Processing, Deep Learning, Information Retrieval

The University of Melbourne

Master of Software Systems Engineering, First Class Honours

Beijing University of Technology

Bachelor of Computer Science and Technology

Melbourne, Australia Feb. 2015-Present

Melbourne, Australia

July, 2012-July, 2013

Beijing, China

Sept, 2004-July, 2008

Publications

Fei Liu, Trevor Cohn, and Timothy Baldwin. (to appear) Recurrent Entity Networks with Delayed Memory Update for Targeted Aspect-based Sentiment Analysis. In *Proceedings of the 2018 Conference of the North American Chapter of the Association for Computational Linguistics – Human Language Technologies (NAACL HLT 2018), New Orleans, USA, 2018.*

Fei Liu, Trevor Cohn, and Timothy Baldwin. Improving End-to-End Memory Networks with Unified Weight Tying. In *Proceedings of the 15th Annual Workshop of The Australasian Language Technology Association (ALTW 2017*), pages 16–24, Brisbane, Australia, 2017. **Best Post Award**

Fei Liu, Timothy Baldwin, and Trevor Cohn. Capturing Long-range Contextual Dependencies with Memory-enhanced Conditional Random Fields. In *Proceedings of the 8th International Joint Conference on Natural Language Processing (IJCNLP 2017)*, pages 555–565, Taipei, Taiwan, 2017.

Fei Liu and Julien Perez. Gated End-to-End Memory Networks. In *Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2017, also presented at NIPS 2016 Let's Discuss: Learning Methods for Dialogue workshop), pages 1–10, Valencia, Spain, 2017.*

Fei Liu, Julien Perez, and Scott Nowson. A Language-independent and Compositional Model for Personality Trait Recognition from Short Texts. In *Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2017)*, pages 754–764, Valencia, Spain, 2017.

Julien Perez and **Fei Liu**. Dialog State Tracking, A Machine Reading Approach using Memory Network. In *Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2017*), pages 305–314, Valencia, Spain, 2017.

Fei Liu, Julien Perez, and Scott Nowson. A Recurrent and Compositional Model for Personality Trait Recognition from Short Texts. In *Proceedings of the Workshop on Computational Modeling*

of People's Opinions, Personality, and Emotions in Social Media (PEOPLES), pages 20–29, Osaka, Japan, 2016.

Fei Liu, Alistair Moffat, Timothy Baldwin, and Xiuzhen Zhang. Quit While Ahead: Evaluating Truncated Rankings. In *Proceedings of 39th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2016*), pages 953–956, Pisa, Italy, 2016.

Andrei Shcherbakov, Ekaterina Vylomova, **Fei Liu**, and Timothy Baldwin. VectorWeavers at SemEval-2016 task 10: From incremental meaning to semantic unit (phrase by phrase). In *Proceedings of the 10th International Workshop on Semantic Evaluation (SemEval 2016)*, pages 871—877, San Diego, USA, 2016.

André Dittrich, Maria Vasardani, Stephan Winter, Timothy Baldwin, and **Fei Liu**. A Classification Schema for Fast Disambiguation of Spatial Prepositions. In *Proceedings of the 6th ACM SIGSPATIAL International Workshop on GeoStreaming (IWGS 2015)*, Seattle, USA, 2015.

Fei Liu, Afshin Rahimi, Bahar Salehi, Miji Choi, Ping Tan, and Long Duong. Automatic Identification of Expressions of Locations in Tweet Messages using Conditional Random Fields. In *Proceedings of the Australasian Language Technology Association Workshop 2014 (ALTW 2014*), pages 171–176, Melbourne, Australia, 2014.

Fei Liu, Maria Vasardani, and Timothy Baldwin. Automatic Identification of Locative Expressions from Social Media Text: A Comparative Analysis. In *Proceedings of the 4th International Workshop on Location and the Web (LocWeb 2014)*, pages 9–16, Shanghai, China, 2014.

Awards and Additional Certificates

Brisbane, Australia Dec, 2017
Brisbane, Australia Nov, 2017
Melbourne, Australia Oct, 2017
Melbourne, Australia July, 2017
Melbourne, Australia April, 2017
Melbourne, Australia Mar, 2017
Grenoble, France Sept, 2016
Pisa, Italy July, 2016
Melbourne, Australia May, 2016
Melbourne, Australia Feb, 2015-Feb, 2018

IELTS Melbourne, Australia

General Training, Overall: 8.5/9.0 Mar, 2013

Listening: 8.5/9.0, Reading: 9.0/9.0, Writing: 8.5/9.0, Speaking: 7.0/9.0

Oracle Certified Professional, Java SE 6 Programmer

Orcale Corporation Apr., 2011

Japanese Language Proficiency Test, Level 1 (Top Level)

Japan Educational Exchanges and Services Dec, 2009

Experience

The University of Melbourne

Melbourne, Australia

Research Assistant (Casual)

May, 2017-Aug, 2017

Tokyo, Japan

Tokyo, Japan

Research Duties: Responsible for implementing a bi-directional LSTM-CRF model for sequential tagging tasks in low-resource languages for the DARPA-funded LORELEI project in collaboration with CMU.

Xerox Research Centre Europe

Grenoble, France

Research Intern

May, 2016–Oct, 2016

Research Topic and Achievements: Memory Networks, deep learning approach for personality trait recognition, 3 long conference papers accepted at EACL 2017

Royal Melbourne Institute of Technology

Melbourne, Australia

Research Assistant (Casual)

Sept, 2014-Feb, 2015

Detailed Achievements:

Sept 2014 – Feb 2015 Customized Search Engine for Industry Partner
Managed to increase the accuracy of the query boundary detection process by 10% by applying machine learning techniques. Significantly improved the performance of the search engine (F-score from less than 10 to 55 by boosting precision substantially and factoring in translation probabilities to detect paraphrases).

The University of Melbourne

Melbourne, Australia

Research Assistant (Casual)

Sept, 2014–Dec, 2014

Hitachi Government & Public Corporation System Engineering, Ltd.

Software Engineer (Full-Time)

Oct, 2008-June, 2012

Internal Awards:

• Participated (as a core developer) in the development of the *GOOD-DESIGN-AWARD*-winning and *KIDS-DESIGN-AWARD*-winning web application named *ZoomSight* (No.1 in market share)

Hitachi Beijing Tech Information Systems Co., Ltd

Beijing, China

Tokyo, Japan

Software Engineer (Intern)

Feb, 2008-Aug, 2008

Languages

NameProficiencyChineseNative or Bilingual ProficiencyEnglishFull Professional ProficiencyJapaneseFull Professional Proficiency

Programming Skills

- Primary language: Python, Java
- Knowledge of: TensorFlow, Keras, Theano, LaTeX, C/C++, JavaScript, jQuery, HTML, CSS, Linux, Struts, Spring, Hibernate
- o GitHub: https://github.com/liufly