Fei Liu | Resumé

The University of Melbourne
Ph.D. Candidate (Natural Language Processing)
Supervisors: Tim Baldwin, Trevor Cohn
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☑ https://liufly.github.io

Education

The University of Melbourne

Doctor of Philosophy
Natural Language Processing, Deep Learning

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

Selected Publications

Minghao Wu, **Fei Liu**, and Trevor Cohn (to appear). Evaluating the Utility of Hand-crafted Features in Sequence Labelling. In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)*, Brussels, Belgium, 2018.

Fei Liu, Trevor Cohn, and Timothy Baldwin. Narrative Modeling with Memory Chains and Semantic Supervision. In *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (ACL 2018)*, pages 278–284, Melbourne, Australia, 2018.

Fei Liu, Trevor Cohn, and Timothy Baldwin. 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), pages 278–283, 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, 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.

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.

Experience

Facebook AI Research

Seattle, USA

Research Intern

Sept, 2018-Jan, 2019 Supervisors: Jacob Eisenstein and Omer Levy.

The University of Melbourne

Melbourne, Australia

Research Assistant (Casual)

May, 2017-Aug, 2017

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.

Tokyo, Japan

Software Engineer (Full-Time)

Internal Awards:

Oct, 2008-June, 2012

o 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

Software Engineer (Intern)

Feb, 2008-Aug, 2008

Awards and Additional Certificates

Best Poster Award

Brisbane, Australia

Australasian Language Technology Association

Dec. 2017

ALTA 2017 Student Scholarship Brisbane, Australia

Australasian Language Technology Association Nov. 2017

Google PhD Travel Scholarship Award Melbourne, Australia

Google Oct, 2017

Best Paper Award, 5th Annual Doctoral Colloquium Melbourne, Australia

Sch. of Computing and Information Systems, The University of Melbourne July, 2017

Conference Travel Scholarship Melbourne, Australia

The University of Melbourne April, 2017

Winning Team of Electronic Trading Challenge Hackathon Melbourne, Australia

Jane Street Capital Mar, 2017

Best Intern Presentation Award Grenoble, France

Xerox Research Centre Europe Sept, 2016

SIGIR Travel Scholarship Pisa, Italy

SIGIR July, 2016

3rd Prize, Microsoft Data Science Student Challenge Hackathon Melbourne, Australia
Microsoft, The University of Melbourne

May, 2016

Australian Postgraduate Awards (APA Scholarship)

Melbourne, Australia

Department of Education, Australian Government Feb, 2015–Feb, 2019

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 Tokyo, Japan

Orcale Corporation Apr., 2011

Japanese Language Proficiency Test, Level 1 (Top Level) Tokyo, Japan

Japan Educational Exchanges and Services

Dec, 2009

Patent Pending

Julien Perez, Scott Nowson, and **Fei Liu**. Author personality trait recognition from short texts with a deep compositional learning approach. US20180203848A1.

Languages

Name Proficiency

Chinese Native or Bilingual Proficiency
English Full Professional Proficiency
Japanese Full Professional Proficiency

Programming Skills

Primary language: Python, Java

o Knowledge of: TensorFlow, Keras, Theano, LATEX, Linux

GitHub: https://github.com/liufly