Jackie Chi Kit Cheung

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Education

Ph.D. in Computer Science
2010 – current   University of Toronto
Expected completion in fall 2014

M.Sc. in Computer Science
2008 – 2010   University of Toronto

B.Sc. in Computer Science (Honours)
2004 – 2008   University of British Columbia
Minors in Linguistics and German

Professional Employment

Assistant Professor
2015 –   School of Computer Science, McGill University

Publications

Journal Publications
(1) Giuseppe Carenini, Jackie C.K. Cheung and Adam Pauls. 2013. Multi-Document Summarization of Evaluative Text. *Computational Intelligence*, 29:545–576. First published online on April 23, 2012.

Refereed Conference Publications
(1) Jackie C.K. Cheung and Gerald Penn. 2014. Unsupervised Sentence Enhancement for Automatic Summarization. To appear in *Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP 2014)*. Doha, Qatar. October, 2014.
(2) Jackie C.K. Cheung and Gerald Penn. 2013a. Probabilistic Domain Modelling With Contextualized Distributional Semantic Vectors. In *Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics (ACL 2013)*, pages 392–401. Sofia, Bulgaria. August, 2013.
(3) Jackie C.K. Cheung and Gerald Penn. 2013b. Towards Robust Abstractive Multi-Document Summarization: A Caseframe Analysis of Centrality and Domain. In *Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics (ACL 2013)*, pages 1233–1242. Sofia, Bulgaria. August, 2013.
(4) Jackie C.K. Cheung, Hoifung Poon, and Lucy Vanderwende. 2013. Probabilistic Frame Induction. In *Proceedings of the 2013 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT 2013)*, pages 837–846. Atlanta, Georgia. June, 2013.

(5) Jackie C.K. Cheung and Gerald Penn. 2012a. Evaluating Distributional Models of Semantics for Syntactically Invariant Inference. In *Proceedings of the 13th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2012)*, pages 33–43. Avignon, France. April, 2012.

(6) Jackie C.K. Cheung and Gerald Penn. 2012b. Unsupervised Detection of Downward-Entailing Operators By Maximizing Classification Certainty. In *Proceedings of the 13th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2012)*, pages 696–705. Avignon, France. April, 2012.

(7) Jackie C.K. Cheung and Xiao Li. 2012. Sequence Clustering and Labeling for Unsupervised Query Intent Discovery. In *Proceedings of the Fifth ACM International Conference on Web Search and Data Mining (WSDM 2012)*, pages 383–392. Seattle, Washington. February, 2012.

(8) Jackie C.K. Cheung and Gerald Penn. 2010. Utilizing Extra-sentential Context for Parsing. In *Proceedings of 2010 Conference on Empirical Methods in Natural Language Processing (EMNLP 2010)*, pages 23–33. Cambridge, Massachusetts. October, 2010.

(9) Jackie C.K. Cheung and Gerald Penn. 2010. Entity-Based Local Coherence Modelling Using Topological Fields. In *Proceedings of the 48th Annual Meeting of the Association for Computational Linguistics (ACL 2010)*, pages 186–195. Uppsala, Sweden. July, 2010.

(10) Jackie C.K. Cheung and Gerald Penn. 2009. Topological Field Parsing of German. In *Proceedings of the 47th Annual Meeting of the Association for Computational Linguistics and the 4th International Joint Conference on Natural Language Processing (ACL-IJCNLP 2009)*, pages 64–72. Suntec, Singapore. August, 2009.

(11) Giuseppe Carenini and Jackie C.K. Cheung. 2008. Extractive vs. NLG-based Abstractive Summarization of Evaluative Text: The Effect of Corpus Controversiality. In *Proceedings of the Fifth International Natural Language Generation Conference (INLG-08)*, pages 33–41. Salt Fork, Ohio. June, 2008. (I was co-lead author of this paper.)

Refereed Workshop Publications

(1) Jackie C.K. Cheung, Giuseppe Carenini and Raymond T. Ng. 2009. Optimization-based Content Selection for Opinion Summarization. In *Proceedings of the ACL-IJCNLP 2009 Workshop on Language Generation and Summarisation (UCNLG+Sum)*, pages 7–14.

Major Awards

(1) Facebook PhD Fellowship
2013 – 2014   Approximately $45,000 CAD

(2) NSERC Alexander Graham Bell Canada Graduate Scholarship (CGS D)
2010 – 2012 $70,000 CAD

(3) NSERC Postgraduate Scholarship (PGS M)
2008 – 2010 $37,066 CAD

Invited Talks

(1) *Towards Large-Scale Natural Language Inference with Distributional Semantics*
University of Heidelberg, Institute for Computational Linguistics, June 4, 2014
Johns Hopkins University, Center for Language and Speech Processing, March 25, 2014

(2) *Distributional Semantics for Probabilistic Domain Modelling*
University of Ottawa, Department of Computer Science, October 2, 2013

UBC, Department of Computer Science, September 20, 2013
Facebook, September 10, 2013
(3) *Topological Field Parsing for Discourse Modeling in German*
UBC, Department of Computer Science, January 10, 2011

RESEARCH EXPERIENCE

Graduate Research Assistant
2008 – 2014   Department of Computer Science, University of Toronto

Research Intern
2012   Natural Language Processing Group, Microsoft Research Redmond

Research Intern
2011   Speech Group, Microsoft Research Redmond

Undergraduate Research Assistant
2007 – 2008   Department of Computer Science, University of British Columbia

TEACHING EXPERIENCE

Graduate Teaching Assistant
2008 – 2013   Department of Computer Science, University of Toronto
14 appointments of 54 hours for first-year to upper-year courses

Undergraduate Teaching Assistant
2006 – 2007   Department of Computer Science, University of British Columbia
Three appointments in total

SERVICE

Reviewing
2014   Natural Language Engineering; EMNLP; EACL; EACL Student Research Workshop;
ACL; IEEE/ACM Transactions on Audio, Speech, and Language Processing
2013   Computational Intelligence; EMNLP; *SEM; NAACL Student Research Workshop
2012   EMNLP; EACL
2011   IJCNLP

Workshop Co-Chair
2012   Student Research Workshop of the 2012 Conference of the Association for
Computational Linguistics

Student Volunteer
2010   The 2010 Conference of the Association for Computational Linguistics

Graduate Affairs Committee Member
2009 – 2010   Department of Computer Science, University of Toronto

PROFESSIONAL MEMBERSHIPS

Association for Computational Linguistics

ACL Special Interest Groups: Natural Language Generation (SIGGEN), Semantics (SIGSEM), and Parsing (SIGPARSE)

Technical Skills

Comfortable working in Windows, Unix, and Linux environments.
Knowledge of C, C++, C#, Java, Perl, Lisp, MATLAB, LaTeX, Python, Scheme, HTML, PHP, CSS, JavaScript, Photoshop, InDesign

Languages

Native/native-like: Cantonese, English
Fluent/advanced: Mandarin, German
Intermediate reading: French, Japanese

References

Available upon request.

Last updated August 5, 2014.