

Jackie Chi Kit Cheung

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EDUCATION

The University of Toronto
Toronto, Ontario, Canada
Ph.D., Computer Science, (January 2010 – current)
‣ Advisor: Gerald Penn

The University of Toronto
Toronto, Ontario, Canada
M.Sc., Computer Science, (September 2008 – April 2010)
‣ Thesis title: *Parsing German Topological Fields with Probabilistic Context-Free Grammars*
‣ Advisor: Gerald Penn

The University of British Columbia
Vancouver, B.C., Canada
B.Sc., Computer Science, (September 2004 – May 2008)
‣ Honours in Computer Science, Minors in Linguistics and German
‣ Advisor: Giuseppe Carenini
‣ Thesis title: *Comparing Abstractive and Extractive Summarization of Evaluative Text: Controversiality and Content Selection*
‣ Cumulative average: 94.2% (Computer science average: 95.8%)
‣ Governor-General's Silver Medal as the head of the graduating class in the Faculty of Science

Prince of Wales Secondary School
Vancouver, B.C., Canada
(September 1999 – June 2004)
‣ Governor-General's Bronze Medal for the highest graduating average

RESEARCH INTERESTS

- Automatic summarization
- Natural language generation
- Natural language semantics
- Parsing and applications of parsing in freer-word-order languages
- Statistical models of parsing

PUBLICATIONS
AND
PRESENTATIONS

Journal Publications

- (1) Giuseppe Carenini, Jackie C.K. Cheung and Adam Pauls. 2012. Multi-Document Summarization of Evaluative Text. *Computational Intelligence*. Published online on April 23, 2012.

Refereed Conference Publications

- (1) Jackie C.K. Cheung and Gerald Penn. 2012. 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.
- (2) Jackie C.K. Cheung and Gerald Penn. 2012. 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.
- (3) 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.
- (4) 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.
- (5) 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.
- (6) 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.
- (7) 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.

Invited Talks

- (1) UBC Laboratory for Computational Intelligence Forum Talk
 UBC Department of Computer Science
 Title: *Topological Field Parsing for Discourse Modeling in German*
 January 10, 2011
- (2) Undergraduate Research Night
 UBC Department of Computer Science
 Title: *Summarization of Evaluative Text*
 November 7, 2007

PROFESSIONAL ORGANIZATIONS – Association for Computational Linguistics
 – ACL Special Interest Groups: Natural Language Generation (SIGGEN), Semantics (SIGSEM), and Parsing (SIGPARSE)

WORK EXPERIENCE

Microsoft Research, Natural Language Processing Group

Redmond, Washington, USA
Research Intern, (February 2012 – June 2012)
 ▶ Mentors: Hoifung Poon and Lucy Vanderwende
 ▶ Project: Structured summarization by template induction

Microsoft Research, Speech Group

Redmond, Washington, USA
Research Intern, (May 2011 – July 2011)
 ▶ Mentor: Xiao Li
 ▶ Worked on unsupervised pattern discovery from search query logs.

The University of Toronto

Teaching Assistant, (September 2008 – current)
 Courses I have been employed for:
 ▶ CSC485H, introduction to computational linguistics
 ▶ CSC180H, first-year programming for engineering science students
 ▶ CSC401H, natural language computing
 ▶ CSC108H, introduction to programming
 ▶ CSC236H, a second-year level course on the theory of computation
 ▶ CSC165H, a first-year logic and theory course

The University of British Columbia

Summer Research Assistant, (May 2008 – July 2008)
 ▶ Supervised by Professors Giuseppe Carenini and Raymond T. Ng.
 ▶ I investigated the topic of using optimization methods for opinion summarization.

NSERC Undergraduate Research Assistant, (May 2007 – August 2007)
 ▶ Supervised by Professor Giuseppe Carenini, working in the topic of summarization of evaluative arguments

Undergraduate Teaching Assistant, (May 2006 – July 2006; January 2007 – April 2007)

- ▷ Duties included marking assignments and attending laboratory sessions for first- and second-year theory and systems courses.
- ▷ Courses I was employed for: CPSC 221, 121, 213.

SERVICE

The Association for Computational Linguistics

Student Research Workshop Co-Chair, ACL 2012

Student Volunteer, (July 2010)

Reviewer

IJCNLP 2011

EACL 2012

The University of Toronto

Graduate Affairs Committee, Department of Computer Science, (September 2009 – April 2010)

- ▷ As a member of the graduate affairs committee, I participated in planning and making decisions regarding the structure of the graduate program and in approving course proposals.

AWARDS

- NSERC Alexander Graham Bell Canada Graduate Scholarship (CGS D)
2010 – 2012 \$70,000
- Ontario Graduate Scholarship
2010 – 2011 \$15,000 (declined)
- NSERC Postgraduate Scholarship (PGS M)
2008 – 2010 \$37,066
- Helen Sawyer Hogg Award
2008 \$8,000
 - ▷ University of Toronto entrance award
- Alice H. Shelton Prize
2008 \$275
 - ▷ Awarded by the Department of Central, Eastern, and Northern European Studies
- Governor-General's Silver Medal
2008
- Markus Meister Memorial Prize in Computer Science
2008 \$250
 - ▷ Awarded for attaining the highest standing in the final year in Computer Science
- Computing Research Association 2008 Outstanding Undergraduate Award – Honourable Mention
- NSERC Undergraduate Student Research Award
2007 \$4,500
- Rick Sample Memorial Award
2007 \$2,000

- Awarded for research potential
- Trek Excellence Scholarship for Continuing Students
2005 – 2008 \$4,500
- Computer Science Scholarship
2005, 2007 \$1,070
- Summer Scholarship
2005, 2006 \$1,750
- J. Fred Muir Memorial Scholarship in Science
2005 \$500
- Undergraduate Scholar Program Scholarship
2004 – 2005 \$2,500
- Governor-General's Bronze Medal
2004

CAMPUS
INVOLVEMENT

UBC Perspectives

Web Design Co-director, (June 2007 – April 2008)

Publication Design Director, (June 2006 – June 2007)

Graphics Director, (September 2005 – June 2006)

- *Perspectives* is a Chinese-English student newspaper based in UBC with a focus on Asian-Canadian issues on campus. As part of the executive team, my responsibilities included directing and organizing the design of the publication, as well as designing and maintaining the club website.

UBC German Club

Webmaster, (October 2005 – April 2008)

- I was responsible for the creation and maintenance of the club website.

TECHNICAL
SKILLS

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

PERSONAL

Languages Spoken

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

Other Interests

- Piano (ARCT Performer's with First Class Honours, 2004)
- Strategic board games
- Cooking

REFERENCES

Available upon request

Last updated May 2, 2012.