

Graeme Hirst

Basic information

StGeorge campus office: Department of Computer Science, 10 King's College Road, University of Toronto, Toronto, Ontario, Canada M5S 3G4; 416-978-8747; fax 416-978-1455; gh@cs.toronto.edu; www.cs.toronto.edu/~gh.

Scarborough campus office: Department of Computer and Mathematical Sciences, University of Toronto, Scarborough, 1265 Military Trail, Scarborough, Ontario, Canada M1C 1A4; 416-287-7257; fax 416-287-7279.

Home: 250 Withrow Avenue, Toronto, Ontario, Canada M4K 1E4; 416-469-4530.

Citizenship: Australian and Canadian.

Education

1979–83: Department of Computer Science, Brown University, Providence, Rhode Island.

- PhD degree; Thesis: *Semantic interpretation against ambiguity*. (Supervisor: Eugene Charniak.)

1975–79: Department of Engineering Physics, Research School of Physical Sciences, Australian National University, Canberra, A.C.T., Australia *and* Department of Computer Science, University of British Columbia, Vancouver, B.C., Canada.

- MSc degree (ANU); Thesis: *Anaphora in natural language understanding*. Thesis written partly at ANU (supervisors: Stephen Kaneff and Iain Macleod) and partly at UBC (supervisor: Richard Rosenberg).

1970–73: Monash University, Clayton, Victoria, Australia.

- Majors in Information Science and Pure Mathematics; minor in Psychology. BSc degree with First-Class Honours in Information Science, 1974. BA degree, 1973.

Employment

1984– : University of Toronto: Department of Computer Science; also (from January 1986) University of Toronto at Scarborough: Department of Computer and Mathematical Sciences (formerly, Division of Mathematical Sciences; formerly, Division of Physical Sciences).

- Professor (1995–); Associate Professor [with tenure] (1990–95); Assistant Professor (1984–90). Member, School of Graduate Studies (from November 1987).
- Visiting Professor (2005–06), University of Colorado at Boulder, Center for Spoken Language Research.
- Adjunct Professor (1995–98), University of Waterloo, Department of Computer Science.
- Visiting Professor (1990–91), University of Rochester, Department of Computer Science.

Awards and honours

Distinguished Service Award and Fellow, Canadian Society for Computational Studies of Intelligence [now the Canadian Artificial Intelligence Association], May 2008.

Awards for excellence in teaching, Computer Science Students' Union, University of Toronto, September 1988 and October 1994.

Publisher's Prize, Best paper by student or recent student, National Conference on Artificial Intelligence (AAAI-84), Austin, Texas, August 1984.

Research interests

Computational linguistics; natural language processing; machine translation; knowledge representation; cognitive science; computer models of language and cognition; semantics; lexical semantics; pragmatics; linguistic style; artificial intelligence; applications of computational linguistics and natural language processing in writing, in health and medicine, and in the humanities.

Research grants and contracts

NSERC, Discovery Frontiers — Digging Into Data, 2014–2015, \$39,250 + \$41,000. A component of a multi-agency multinational award totalling XXXX to XXXX PIs.

U.S. DARPA, 2012–13, “Explorations on Semantic Equivalence”, US\$220,058.

NSERC, Research Tools and Instruments Grant, 2010, “Massively parallel computing in natural language technology”, \$140,843 [co-applicant with Gerald Penn and Suzanne Stevenson].

Google Research Award, 2009, “Natural language processing methods for the early detection of Alzheimer's disease in patients' on-line writing”, US\$36,000 [with Ian Lancashire and Regina Jökel].

NSERC, Discovery Grant, 2009–2014, “Nuances of meaning, paraphrase, and argument identification in applications of natural language processing”, \$50,000 p.a. × 5 years.

NSERC, Collaborative Research and Development Grant, 2008–09, 2009–10, “Towards articulatory-based adaptation in recognition of dysarthric speech”, \$47,713 + 129,820 = 177,533 [with Fraser Shein, Gerald Penn, Pascal van Lieshout, and Willy Wong, co-applicants].

Bell University Laboratories, 2007–08, “Towards articulatory-based adaptation in recognition of dysarthric speech”, \$75,000 [with Fraser Shein, Gerald Penn, and Pascal van Lieshout, co-applicants].

NSERC, Research Tools and Instruments Grant, 2005, “Compute server for research in computational linguistics and natural language Processing”, \$73,011 [with Suzanne Stevenson and Gerald Penn, co-applicants].

NSERC, Discovery Grant, 2004–2009, “Paraphrase and semantic distance in applications of natural language processing”, \$59,000 p.a. × 5 years.

SSHRC, Major Collaborative Research Initiative, 2002–2006, “International Research on Permanent Authentic Records in Electronic Systems 2: Experiential, Interactive, and Dynamic Records”, \$2,499,400. [P.I., Luciana Duranti, UBC; 24 co-investigators.]

Bell University Laboratories, 2001–2003, \$199,640 p.a. × 2 years [P.I., John Mylopoulos; 5 other co-investigators]; renewed 2003–04, \$215,000.

Bell University Laboratories, 2001–2003, \$114,582 [P.I., monica schraefel].

Bell University Laboratories, 2000–2001, \$86,250 [P.I., monica schraefel].

NSERC, Discovery Grant, 2000–2004, “The determination of nuances of meaning and style and of semantic distance for applications of computational linguistics”, \$54,000 p.a. × 4 years.

CITO, “Applications of computational linguistics to communication aids for people with disabilities”, 2000–2002, \$100,500 [co-investigator, Fraser Shein].

Bell Canada University Laboratories, 1999–2000, \$55,200.

Bell Canada University Laboratories [with Robert Wright, P.I., Jutta Treviranus, and Mark Chignell], 1999–2000, \$50,000.

CITO, “Computational measures of semantic distance and the intelligent disambiguation, summarization, filtering, linking, indexing, retrieval, and searching of documents and text”, 1998–2000, \$100,000, *declined*.

NSERC, research grant, “Representation and use of nuances of meaning and style in applications of computational linguistics”, 1996–2000, \$46,500 + 46,500 + 51,150 + 53,708.

Technology Ontario [with Chrysanne DiMarco, P.I.], 1995–98, \$666,667.

NSERC, research grant, “Natural language understanding: Representation and repair”, 1992–96, \$35,000 p.a. × 4 years.

NSERC, strategic grant [with Ronald Baecker, Marilyn Mantei, and Marlene Scardamalia], 1992–95, \$120,000 p.a. × 3 years.

ITRC [with Chrysanne DiMarco], 1991–93, \$90,000

NSERC, operating grant, 1989–92: \$30,590 p.a. × 3 years.

ITRC [with Stephen Regoczei, through John Mylopoulos, P.I.] 1989–91, \$21,000.

Visiting fellowship, April 1988, £2509 from SERC, for three-month visit to the Department of Artificial Intelligence, University of Edinburgh.

NSERC, operating grant, 1986–89: \$23,732 p.a. × 3 years.

NSERC, operating grant, 1985–86: \$24,773.

IBM Canada Ltd, contract, 1985–86: \$30,300.

NSERC, strategic grant and strategic equipment grant [with John Mylopoulos, John Tsotsos, and Hector Levesque], 1984–87, \$1,495,000.

NSERC, operating grant, 1984–85: \$15,030.

Connaught Fund, University of Toronto, 1984: \$24,000.

Patents

———; Jokel, Regina; Lancashire, Ian; and Le, Xuan. Method and system of longitudinal detection of dementia through lexical and syntactic changes in writing. U.S. patent application 61/481,766, 3 May 2011.

Rudzicz, Frank; ——; Penn, Gerald; Shein, Fraser; and van Lieshout, Pascal. System and method for acoustic transformation. U.S. patent application 61/511,275, 25 July 2011.

Publications

Career publication count	
Scholarly books (authored)	2
Scholarly books (edited)	1
Chapters in books	27
Papers in refereed journals	32
Papers in refereed conferences	68
Major invited contributions	16
Other conference abstracts / posters / contributions	61
Other publications	11

Refereed papers

Kolhatkar, Varada; Zinsmeister, Heike; and ——-. “Interpreting anaphoric shell nouns using cataphoric shell nouns as training data.” *Proceedings, 2013 Conference on Empirical Methods in Natural Language Processing*, Seattle, October 2013, 300–310.

Brooke, Julian and ——-. “Hybrid models for lexical acquisition of correlated styles.” *Proceedings, 6th International Joint Conference on Natural Language Processing*, Nagoya, October 2013, 82–90.

Feng, Vanessa and ——-. “Detecting deceptive opinions with profile compatibility.” *Proceedings, 6th International Joint Conference on Natural Language Processing*, Nagoya, October 2013, 338–346.

Mohammad, Saif; Dorr, Bonnie; ——; Turney, Peter. “Computing lexical contrast.” *Computational Linguistics*, 39(3), September 2013, 555–590.

Feng, Vanessa Wei and ——-. “Authorship verification with entity coherence and other rich linguistic features.” *Proceedings, PAN 2013 Lab: Uncovering Plagiarism, Authorship and Social Software Misuse — at the CLEF 2013 Conference and Labs of the Evaluation Forum: Information Access Evaluation meets Multilinguality, Multimodality, and Visualization*, Valencia, September 2013 [refereed by extended abstract only].

Kolhatkar, Varada; Zinsmeister, Heike; and ——-. “Annotating anaphoric shell nouns with their antecedents.” *Proceedings, The 7th Linguistic Annotation Workshop & Interoperability with Discourse*, Sofia, August 2013, 112–121.

Strauss, John; Martínez Peguero, Arturo; and ——-. “Machine learning methods for clinical forms analysis in mental health.” *Proceedings, 14th World Congress on Medical and Health Informatics (MEDINFO 2013)*, edited by Christoph Ulrich Lehmann, Elske Ammenwerth, and Christian Nøhr, Copenhagen, August 2013, IOS Press, page 1024. [1-page refereed abstract of poster presentation.]

Cook, Paul and ———. “Automatically assessing whether a text is clichéd, with applications to literary analysis.” *Proceedings, 9th Workshop on Multiword Expressions (MWE 2013)*, Atlanta, June 2013, 52–57.

Brooke, Julian and ———. “Using other learner corpora in the 2013 NLI shared task.” *Proceedings, 8th Workshop on Innovative Use of NLP for Building Educational Applications*, Atlanta, June 2013, 188–196.

Hammond, Adam; Brooke, Julian; and ———. “A tale of two cultures: Bringing literary analysis and computational linguistics together.” *Proceedings, Second ACL Workshop on Computational Linguistics for Literature*, Atlanta, June 2013, 1–8.

Brooke, Julian; ———; and Hammond, Adam. “Clustering voices in *The Waste Land*.” *Proceedings, Second ACL Workshop on Computational Linguistics for Literature*, Atlanta, June 2013, 41–46.

Brooke, Julian and ———. “A multi-dimensional Bayesian approach to lexical style.” *Proceedings of the 2013 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*, Atlanta, June 2013, 673–679.

———; Talent, Nadia; and Scharf, Sara. “Detecting semantic overlap and discovering precedents in the biodiversity research literature.” *Proceedings of the First International Workshop on Semantics for Biodiversity* (CEUR Workshop Proceedings, volume 979), Montpellier, France, 27 May 2013.

Brooke, Julian and ———. “Native language detection with ‘cheap’ learner corpora.” In: Granger, Sylviane; Gilquin, Gaëtanelle; and Meunier, Fanny (editors) *Twenty Years of Learner Corpus Research: Looking back, moving ahead*. Louvain-la-Neuve: Presses universitaires de Louvain, 2013, 37–47.

———; Riabinin, Yaroslav; Graham, Jory; Boizot-Roche, Magali; and Morris, Colin. “Text to Ideology or Text to Party Status?” In: Kaal, Bertie; Maks, E. Isa; and van Elfrinkhof, Annemarie M.E. (editors), *From Text to Political Positions: Converging approaches to estimating party positions*. Amsterdam: John Benjamins, 2013 [to appear].

Feng, Vanessa Wei and ———. “Patterns of local discourse coherence as a feature for authorship attribution”. *Literary and Linguistic Computing*, ??(?), 2013, ???–??? [advance publication online, 9 April 2013].

Fraser, Kathleen C.; Meltzer, Jed A.; Graham, Naida L.; Leonard, Carol; ———; Black, Sandra E.; and Rochon, Elizabeth. “Automated classification of primary progressive aphasia subtypes from narrative speech transcripts.” *Cortex*, ??(?), 2013, ???–??? [to appear].

Kennedy, Alistair and ———. “Measuring semantic relatedness across languages.” *Proceedings, xLiTe: Cross-Lingual Technologies Workshop* at the Neural Information Processing Systems Conference, 2012, December, Lake Tahoe, NV.

Brooke, Julian and ———. “Robust, lexicalized native language identification.” *Proceedings, 24th International Conference on Computational Linguistics*, Mumbai, December 2012.

Brooke, Julian and ———. “Paragraph clustering for intrinsic plagiarism detection using a stylistic vector-space model with extrinsic features.” *Proceedings, PAN 2012 Lab: Uncovering Plagiarism, Authorship and Social Software Misuse — at the CLEF 2012 Conference and Labs of the Evaluation Forum: Information Access Evaluation meets Multilinguality, Multimodality, and Visual Analytics*, Rome, September 2012 [refereed by extended abstract only].

Morris, Colin and ———. “Identifying sexual predators by SVM classification with lexical and behavioral features.” *Proceedings, PAN 2012 Lab: Uncovering Plagiarism, Authorship and Social Software Misuse — at the CLEF 2012 Conference and Labs of the Evaluation Forum: Information Access Evaluation meets Multilinguality, Multimodality, and Visual Analytics*, Rome, September 2012 [refereed by extended abstract only].

Kolhatkar, Varada and ———. “Resolving ‘this-issue’ anaphora.” *2012 Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning (EMNLP-CoNLL 2012)*, 1255–1265, July 2012, Jeju, Korea.

Feng, Vanessa Wei and ———. “Text-level discourse parsing with rich linguistic features.” *Proceedings, 50th Annual Meeting of the Association for Computational Linguistics*, Jeju, Korea, July 2012, 60–68.

Cook, Paul and ———. “Do Web-corpora from top-level domains represent national varieties of English?” *Proceedings, 11^{es} Journées internationales d’analyse statistique des données textuelles / 11th International Conference on the Statistical Analysis of Textual Data (JADT 2012)*, Liège, June 2012, 281–293.

Brooke, Julian; Hammond, Adam; and ———. “Unsupervised stylistic segmentation of poetry with change curves and extrinsic features.” *Proceedings, Workshop on Computational Linguistics for Literature*, Montreal, June 2012, 26–35.

Brooke, Julian; Tsang, Vivian; Jacob, David; Shein, Fraser; and ———. “Building readability lexicons with unannotated corpora.” *Proceedings, Workshop on Predicting and Improving Text Readability for Target Reader Populations*, Montreal, June 2012, 33–39.

——— and Feng, Vanessa Wei. “Changes in style in authors with Alzheimer’s disease.” *English Studies*, 93(3), May 2012, 357–370.

Brooke, Julian and ———. “Measuring interlanguage: Native language identification with L1-influence metrics.” *Proceedings, 8th ELRA Conference on Language Resources and Evaluation (LREC 2012)*, Istanbul, May 2012. [Refereed by extended abstract]

Feng, Vanessa Wei and ———. “Extending the entity-based coherence model with multiple ranks.” *Proceedings, 13th Conference of the European Chapter of the Association for Computational Linguistics*, Avignon, April 2012, 315–324.

Rudzicz, Frank; ———; and van Lieshout, Pascal. “Vocal tract representation in the recognition of cerebral palsied speech.” *Journal of Speech, Language, and Hearing Research*, 55(4), August 2012, 1190–1207.

Cook, Paul and ———. “Automatic identification of words with novel but infrequent senses”. *Proceedings, 25th Pacific Asia Conference on Language, Information and Computation*, Singapore, December 2011, 265–274.

Brooke, Julian; Wang, Tong; and ———. “Predicting word clipping with latent semantic analysis”. *Proceedings, 5th International Joint Conference on Natural Language Processing*, Chiang Mai, November 2011, 1392–1396.

Wang, Tong and ———. “Refining the notions of depth and density in WordNet-based semantic similarity measures.” *2011 Conference on Empirical Methods in Natural Language Processing*, Edinburgh, July 2011, 1003–1011.

Le, Xuan; Lancashire, Ian; ———; and Jokel, Regina. “Longitudinal detection of dementia through lexical and syntactic changes in writing: A case study of three British novelists.” *Literary*

and *Linguistic Computing*, 26(4), December 2011, 435–461.

Wang, Tong and ———. “Exploring patterns in dictionary definitions for synonym extraction.” *Natural Language Engineering*, 18(3), July 2012, 313–342.

Feng, Vanessa Wei and ———. “Classifying arguments by scheme.” *Proceedings, 49th Annual Meeting of the Association for Computational Linguistics*, Portland, Oregon, June 2011, 978–996.

Wang, Tong and ———. “Near-synonym lexical choice in latent semantic space.” *Proceedings, 23rd International Conference on Computational Linguistics (COLING 2010)*, Beijing, August 2010, 1182–1190.

Brooke, Julian; Wang, Tong; and ———. “Automatic acquisition of lexical formality.” *Proceedings, 23rd International Conference on Computational Linguistics (COLING 2010)*, Beijing, August 2010, Poster volume pages 90–98.

Brooke, Julian; Wang, Tong; and ———. “Inducing lexicons of formality from corpora.” *Workshop on Methods for the Automatic Acquisition of Language Resources and their Evaluation Methods, 7th Lexical Resources and Evaluation Conference*, Valetta, Malta, May 2010, 17–22.

———; Riabinin, Yaroslav; and Graham, Jory. “Party status as a confound in the automatic classification of political speech by ideology.” *Proceedings, 10th International Conference on Statistical Analysis of Textual Data / 10es Journées internationales d’Analyse statistique des Données Textuelles (JADT 2010)*, Rome, June 2010, 731–742.

Marathe, Meghana and ———. “Lexical chains using distributional measures of concept distance.” *Proceedings, 11th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2010)* [Iasi, Romania, March 2010], (Lecture Notes in Computer Science 6008), Berlin: Springer-Verlag, 2010, 291–302.

Wang, Tong and ———. “Extracting synonyms from dictionary definitions.” *Conference on Recent Advances in Natural Language Processing*, September 2009, Borovets, Bulgaria, 470–476.

———. “Limitations of the philosophy of language understanding implicit in computational linguistics.” *Proceedings, 7th European Conference on Computing and Philosophy*, Barcelona, July 2009, 108–109.

———. “Ontology and the lexicon.” In: Staab, Steffen and Studer, Rudi (editors), *Handbook on Ontologies* (second edition), Berlin: Springer Verlag (International Handbooks on Information Systems), 2009, 269–292. (Revision of 2004 version, invited for a new edition of the book in which the original appeared.)

Rudzicz, Frank; van Lieshout, Pascal; ———; Penn, Gerald; Shein, Fraser; and Wolff, Talya. “Towards a comparative database of dysarthric articulation.” *Proceedings of the 8th International Speech Production Seminar (ISSP 2008)*, Strasbourg, France, December 2008, 285–288.

Mohammad, Saif; Dorr, Bonnie J.; ———. “Computing word-pair antonymy.” *Proceedings, 2008 Conference on Empirical Methods in Natural Language Processing (EMNLP 2008)*, Honolulu, October 2008, 982–991.

Wilcox-O’Hearn, Amber; ———; and Budanitsky, Alexander. “Real-word spelling correction with trigrams: A reconsideration of the Mays, Damerau, and Mercer model.” In: Gelbukh, Alexander (editor), *Proceedings, 9th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2008)* [Haifa, February 2008], (Lecture Notes in Computer Science 4919), Berlin: Springer-Verlag, 2008, 605–616. **Award for best poster.**

——— and Feiguina, Ol’ga. “Bigrams of syntactic labels for authorship discrimination of short

texts.” *Literary and Linguistic Computing*, 22(4), 2007, 405–417.

Niu, Yun and ———. “Identifying cores of semantic classes in unstructured text with a semi-supervised learning approach.” *Proceedings, International Conference on Recent Advances in Natural Language Processing*, September 2007, Borovets, Bulgaria.

Feiguina, Ol’ga and ———. “Authorship attribution for small texts: Literary and forensic experiments.” *Proceedings, International Workshop on Plagiarism Analysis, Authorship Identification, and Near-Duplicate Detection*, 30th Annual International ACM SIGIR Conference (SIGIR ’07), Amsterdam, July 2007. [Refereed by abstract only]

Mohammad, Saif; ———; and Resnik, Philip. “TOR, TORMD: Distributional profiles of concepts for unsupervised word sense disambiguation.” *SemEval-2007: 4th International Workshop on Semantic Evaluations*, Prague, June 2007, 326–333.

Mohammad, Saif; Gurevych, Iryna; ———; and Zesch, Torsten. “Cross-lingual distributional profiles of concepts for measuring semantic distance.” *2007 Joint Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning (EMNLP-CoNLL 2007)*, Prague, June 2007, 571–580.

———. “Views of text-meaning in computational linguistics: Past, present, and future.” In: *Computation, Information, Cognition — The Nexus and the Liminal*, Dodig Crnkovic, Gordana and Stuart, Susan (editors), Cambridge Scholars Publishing, Newcastle-upon-Tyne, 2007, 270–279.

Niu, Yun; Zhu, Xiaodan; and ———. “Using outcome polarity in sentence extraction for medical question-answering.” *Proceedings of the American Medical Informatics Association 2006 Annual Symposium*, Washington, D.C., November 2006, 599–603.

Mohammad, Saif and ———. “Distributional measures of concept-distance: A task-oriented evaluation.” *Proceedings, 2006 Conference on Empirical Methods in Natural Language Processing (EMNLP 2006)*, Sydney, Australia, July 2006, 35–43.

Inkpen, Diana and ———. “Building and using a lexical knowledge-base of near-synonym differences.” *Computational Linguistics*, 32(2), June 2006, 223–262.

Mohammad, Saif and ———. “Determining word sense dominance using a thesaurus.” *Proceedings of the 11th conference of the European chapter of the Association for Computational Linguistics (EACL-2006)*, April 2006, Trento, Italy, 121–128.

Budanitsky, Alexander and ———. “Evaluating WordNet-based measures of lexical semantic relatedness.” *Computational Linguistics*, 32(1), March 2006, 13–47.

Graham, Neil; ———; and Marthi, Bhaskara. “Segmenting documents by stylistic character.” *Natural Language Engineering*, 11(4), December 2005, 397–415.

Niu, Yun; Zhu, Xiaodan; Li, Jianhua; and ———. “Analysis of polarity information in medical text.” *Proceedings of the American Medical Informatics Association 2005 Annual Symposium*, Washington, D.C., October 2005, 570–574.

Morris, Jane and ———. “The subjectivity of lexical cohesion in text.” In: Shanahan, James G.; Qu, Yan; and Wiebe, Janyce (eds.) *Computing attitude and affect in text: Theory and applications*, Dordrecht: Springer, 2005, 41–48.

Inkpen, Diana; Feiguina, Ol’ga; and ———. “Generating more-positive and more-negative text.” In: Shanahan, James G.; Qu, Yan; and Wiebe, Janyce (eds.) *Computing attitude and affect in text: Theory and applications*, Dordrecht: Springer, 2005, 187–198.

Li, Jianhua and ———. “Semantic knowledge in a word completion task.” *Proceedings of the 7th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS-2005)*, Baltimore, October 2005, 121–128.

——— and Budanitsky, Alexander. “Correcting real-word spelling errors by restoring lexical cohesion”. *Natural Language Engineering*, 11(1), March 2005, 87–111.

Niu, Yun and ———. “Analysis of semantic classes in medical text for question answering.” *Workshop on Question Answering in Restricted Domains at the 42nd annual meeting of the Association for Computational Linguistics*, Barcelona, July 2004, 54–61.

Morris, Jane and ———. “Non-classical lexical semantic relations.” *Workshop on Computational Lexical Semantics, Human Language Technology Conference of the North American Chapter of the Association for Computational Linguistics*, Boston, May 2004, 46–51. Reprinted in: Hanks, Patrick (editor), *Lexicology: Critical Concepts in Linguistics*, Routledge, 2007.

Morris, Jane and ———. “The subjectivity of lexical cohesion in text.” *AAAI Spring Symposium: Exploring Attitude and Affect in Text: Theories and Applications* (published as AAAI Technical report SS-04-07), Stanford, March 2004, 102–105.

Inkpen, Diana Zaiu; Feiguina, Ol’ga; and ———. “Generating more-positive and more-negative text.” *AAAI Spring Symposium: Exploring Attitude and Affect in Text: Theories and Applications* (published as AAAI Technical report SS-04-07), Stanford, March 2004, 83–89.

———. “Ontology and the lexicon.” In: Staab, Steffen and Studer, Rudi (editors), *Handbook on Ontologies*, Berlin: Springer Verlag (International Handbooks on Information Systems), 2004, 209–229.

Inkpen, Diana Zaiu and ———. “Near-synonym choice in natural language generation.” *Fourth Conference on Recent Advances in Natural Language Processing (RANLP-2003)*, September 2003, Borovets, Bulgaria, 204–211. Reprinted, slightly abridged, in: Nicolas Nicolov, Kalina Bontcheva, Galia Angelova, and Ruslan Mitkov, editors. *Recent Advances in Natural Language Processing III: Selected Papers from RANLP 2003*, John Benjamins Publishing Company, 2004, 141–150.

Graham, Neil and ———. “Segmenting a document by stylistic character.” *Workshop on Computational Approaches to Style Analysis and Synthesis, 18th International Joint Conference on Artificial Intelligence*, Acapulco, August 2003, 47–54.

Niu, Yun; ———; McArthur, Gregory; and Rodriguez-Gianolli, Patricia. “Answering clinical questions with role identification.” *Proceedings, Workshop on Natural Language Processing in Biomedicine*, 41st annual meeting of the Association for Computational Linguistics, Sapporo, Japan, July 2003, 73–80.

———. “Natural language processing, Disambiguation in”, *Encyclopedia of Cognitive Science*, Nature Publishing Group (Macmillan), 2003, Vol. 3, 181–188.

Fazly, Afsaneh and ———. “Testing the efficacy of part-of-speech information in word completion.” *Workshop on Language Modeling for Text Entry Methods, 11th Conference of the European Chapter of the Association for Computational Linguistics*, Budapest, April 2003, 9–16.

Inkpen, Diana Zaiu and ———. “Automatic sense disambiguation of the near-synonyms in a dictionary entry.” *Proceedings of the Fourth International Conference on Computational Linguistics and Intelligent Text Processing (CICLing-2003)*, Mexico City, February 2003, (Lecture Notes in Computer Science, Berlin: Springer-Verlag), 258–267.

———. “Negotiation, compromise, and collaboration in interpersonal and human–computer

conversations.” *Workshop on Meaning Negotiation, 18th National Conference on Artificial Intelligence*, Edmonton, 28 July 2002, 1–4.

Inkpen, Diana Zaiu and ———. “Acquiring collocations for lexical choice between near-synonyms.” *SIGLEX Workshop on Unsupervised Lexical Acquisition, 40th meeting of the Association for Computational Linguistics*, Philadelphia, 12 July 2002, 67–76.

Edmonds, Philip and ———. “Near-synonymy and lexical choice.” *Computational Linguistics*, **28**(2), June 2002, 105–144.

Budanitsky, Alexander and ———. “Semantic distance in WordNet: An experimental, application-oriented evaluation of five measures.” *Workshop on WordNet and Other Lexical Resources, Second meeting of the North American Chapter of the Association for Computational Linguistics*, Pittsburgh, June 2001, 29–34.

Inkpen, Diana Zaiu and ———. “Building a lexical knowledge-base of near-synonym differences.” *Workshop on WordNet and Other Lexical Resources, Second meeting of the North American Chapter of the Association for Computational Linguistics*, Pittsburgh, June 2001, 47–52.

Inkpen, Diana Zaiu and ———. “Experiments on extracting knowledge from a machine-readable dictionary of synonym differences.” In: Gelbukh, Alexander (editor), *Computational Linguistics and Intelligent Text Processing*, [Proceedings of the Second International Conference, Mexico City, February 2001], (Lecture Notes in Computer Science 2004), Berlin: Springer-Verlag, 2001, 264–278.

Baljko, Melanie and ———. “The importance of subjectivity in computational stylistic assessment.” *Text Technology*, 9(1), Spring 1999 [published April 2000], 5–17.

Edmonds, Philip and ———. “Reconciling fine-grained lexical knowledge and coarse-grained ontologies in the representation of near-synonyms.” *Workshop on Semantic Approximation, Granularity, and Vagueness*, Breckenridge, Colorado, April 2000.

———. “Context as a spurious concept.” *Proceedings, Conference on Intelligent Text Processing and Computational Linguistics*, Mexico City, February 2000, 273–287.

———. “What exactly are lexical concepts?” *Behavioral and Brain Sciences*, **22**(1), February 1999, 45–46.

Ansari, Daniel and ———. “Generating warning instructions by planning accidents and injuries.” *Proceedings, 9th International Workshop on Natural Language Generation*, Niagara-on-the-Lake, Ontario, August 1998, 118–127.

——— and St-Onge, David. “Lexical chains as representations of context for the detection and correction of malapropisms”. In: Christiane Fellbaum (editor), *WordNet: An electronic lexical database*, Cambridge, MA: The MIT Press, 1998, 305–332.

———; DiMarco, Chrysanne; Hovy, Eduard; and Parsons, Kimberley. “Authoring and generating health-education documents that are tailored to the needs of the individual patient.” In: Jameison, Anthony; Paris, Cécile; and Tasso, Carlo (editors), *User Modeling: Proceedings of the Sixth International Conference, UM97* (Chia Laguna, Sardinia, Italy), Vienna and New York: Springer Wien New York, June 1997, 107–118.

DiMarco, Chrysanne; ———; and Hovy, Eduard. “Generation by selection and repair as a method for adapting text for the individual reader.” *Proceedings of the Flexible Hypertext Workshop* (held in conjunction with the 8th ACM International Hypertext Conference, Southampton, April 1997); published as Report C/TR97-06, Microsoft Research Institute, Macquarie Univer-

sity, August 1997. 36–43.

——— and DiMarco, Chrysanne. “Automatic customization of health-education brochures for individual patients.” *Proceedings, Information Technology and Community Health Conference (ITCH-96)*, Victoria, B.C., November 1996, 222–228.

Marcu, Daniel and ———. “A formal and computational characterization of pragmatic infelicities.” *Proceedings of the Twelfth European Conference on Artificial Intelligence*, Budapest, August 1996, 587–591. [An earlier version of this paper appeared as: Marcu, Daniel and ———. “Detecting pragmatic infelicities.” *AAAI Symposium on Computational implicature: Computational approaches to interpreting and generating conversational implicature*, Stanford University, March 1996, 64–70.]

Glover, Angela and ———. “Detecting stylistic inconsistencies in collaborative writing.” In: Sharples, Mike and van der Geest, Thea (editors), *The new writing environment: Writers at work in a world of technology*. London: Springer-Verlag, 1996. 147–168.

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Professional tutorials, summer schools, etc

“Lexical similarity based on lexicographic resources”, class at the ACL/HCSNet Advanced Program in Natural Language Processing, University of Melbourne, 10–14 July 2006.

“Introduction to non-statistical natural language processing”, tutorial at the combined Human Language Technology Conference and 3rd Meeting of the North American Chapter of the Association for Computational Linguistics, Edmonton, May 2003.

Lecturer, Eurolan Summer Institute, Iași, Romania, July–August 2001.

“Natural language understanding and computational linguistics”, a credit course of eight 100-minute lectures at the First International Summer Institute in Cognitive Science, State University of New York at Buffalo, July 1994.

[With Chrysanne DiMarco] Tutorial on current approaches to natural language semantics, National Conference on Artificial Intelligence (AAAI-90), Boston, July 1990.

Workshop “Introduction to computational linguistics”, sponsored by the Centre for Computing in the Humanities at the Ninth International Summer Institute for Semiotic and Structural Studies, Toronto, June 1987.

Tutorial on current approaches to natural language semantics, 24th annual meeting, Association for Computational Linguistics, New York, June 1986.

Popular media

Quoted in online *Toronto Star* article on computer security, 4 October 2013.

Extensively quoted in article on the role of “sentient computers” in doomsday scenarios, *UofT Magazine*, Winter 2013.

Quoted in Global News online item on privacy issues regarding the Memoto lifelogging camera, 24 Oct 2012.

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Quoted in article on linguistic code-breaking, *Los Angeles Times*, 26 October 2011; reprinted in the *Toronto Star*, 12 November 2011.

Interviewed re empirical natural language processing and our research on markers of dementia in writing on the radio program

Word of Mouth, (episode: “Counting Word Incidences”), BBC Radio 4, 23 August 2011.

Quoted in article on authorship attribution software in biblical scholarship, Associated Press, 30 June 2011.

Interviewed re our research on markers of dementia in the writing of Agatha Christie, on *Breakfast with Red Symons*, ABC Radio, Melbourne, 24 February 2011.

Interviewed re privacy on CBC Radio *Here and Now*, 26 November 2010.

Quoted in article in privacy, *Toronto Sun*, 26 November 2010.

Quoted in article on Facebook privacy, *Toronto Star* online article, 2 November 2010.

Interviewed for, and appeared in short clip on, *CBC News Toronto*, 19 October 2010, on privacy issues in disk-based photocopiers.

Quoted in article on security aspects of computer- and network-based photocopiers, *Toronto Star*, 18 March 2010.

Article in *UofT Magazine*, Winter 2010, on our research with Ian Lancashire on markers of dementia in Agatha Christie’s writing.

Short item in *The Globe and Mail*, 9 March 2010, on our research with Ian Lancashire on markers of dementia in Agatha Christie’s writing.

Feature article in *The Toronto Star*, 23 January 2010, reported our research with Ian Lancashire and Xuan Le on markers of dementia in the writing of Iris Murdoch, P.D. James, and Agatha Christie.

Short article in *New York Times Magazine*, 13 December 2009 (the annual “Year in Ideas” issue), reported our research with Ian Lancashire on markers of dementia in Agatha Christie’s writing.

Quoted in article on machine translation, *Globe and Mail*, 25 November 2009.

Interviewed for, and appeared in short clip on, *First Local*, Rogers TV, York Region, 8 October 2009, on privacy issues in Google StreetView.

Full-page article in *Maclean's* (week ending 6 April 2009) reported our research with Ian Lancashire on markers of dementia in Agatha Christie's writing. Picked up and reported in *The Guardian* (London, 3 April 2009), *The Daily Telegraph* (London, 4 April 2009), United Press International (4 April 2009), *Calgary Herald* (6 April 2009), *Hindustan Times* (New Dehli, 4 April 2009), *Gazetepost* (Turkish online newspaper, 6 April 2009), *El Universal* (Mexico City, 5 April 2009), *Libero* (Milan, 4 April 2009), and various other websites.

Interviewed in segment on Facebook privacy on *The National*, CBC Television, 18 February 2009.

Interviewed [with William Gibson and David Annandale] by Shelagh Rogers on *Sounds Like Canada*, CBC Radio, 4 October 2007.

Quoted in feature article on software piracy, *The Toronto Star*, 30 April 2002.

Guest on "The Chatroom", CTV TalkTV, 16 April 2001, talking about the effect of computers on language (45-minute discussion).

Quoted in feature article on intelligent home appliances, *The Toronto Star*, 4 February 2001.

Extensively quoted in feature article on artificial intelligence in the film *2001: A Space Odyssey*, *The Toronto Star*, 30 December 2000.

Extensively quoted in feature article on privacy and technology, *The Toronto Star*, 12 August 2000.

Quoted in feature article on the future of technology, *The Toronto Star*, 11 June 2000.

Quoted in feature article on the mouse, *The Toronto Star*, 6 February 2000.

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Extensively quoted in feature article on artificial intelligence in the film *2001: A Space Odyssey*, *The Toronto Star*, 12 January 1997.

Appeared on "Minds, Machines, and Mystery", an episode of *Techno TV*, Discovery Channel, 3 December 1996.

Speaker, Symposium "Artificial intelligence: 2001 and beyond", Canadian Society for the Weizmann Institute of Science, January 1990.

Interview by Connie Bryson, *Canadian artificial intelligence*, number 21, October 1989, 8–11.

"Mother tongue to boolean". *Electric word*, 14, July/August 1989, 38–43.

Appeared on the TVOntario series "Artificial intelligence: Fulfilling the dream", 1987.

Series of two interviews by Peter Gzowski on "Morningside", CBC Radio, 25–26 February 1986.

Invited lectures, talks, colloquia, etc.

Invited or keynote conference speaker

ExPoSe project inaugural meeting, Tweede Kamer, The Hague, 23 Oct 2013. "Finding positions in parliamentary text."

Workshop on Lexical Semantic Resources for NLP, NoDaLiDa 2013 (19th Nordic Conference on Computational Linguistics, Northern European Association for Language Technology), Oslo, 22 May 2013. "Lexicons versus ontologies."

7th International Conference on Natural Language Processing (ICON 2009), University of Hyderabad, Hyderabad, India, 16 December 2009. "Who decides what a text means?"

2009 Conference of die Gesellschaft für Sprachtechnologie und Computerlinguistik (German Society for Computational Linguistics), Potsdam, 30 September 2009. "Who decides what a text means?"

International Conference on Text, Speech and Dialogue (TSD 2008), Brno, Czech Republic, 12 September 2008. "The future of text-meaning in computational linguistics."

Conference on Processing Text-Technological Resources, University of Bielefeld, 14 March 2008. "Semantic distance measures with distributional profiles of coarse-grained concepts." [co-authored with Saif Mohammad]

Second International Workshop on Paraphrasing, Sapporo, Japan, July 2003. "Paraphrasing paraphrased."

Inauguration Symposium, Human Language Technology Research Institute, University of Texas at Dallas, March 2002. "Context as a spurious concept."

Third conference on Recent Advances in Natural Language Processing, Tzigov Chark, Bulgaria, September 2001. "Measures of semantic relatedness and the detection and correction of real-word spelling errors".

Second International Conference on Computational Linguistics and Intelligent Text Processing, Mexico City, February 2001, “Measures of semantic relatedness: Problems in semantic distance and intelligent spelling checking”.

Japan Electronic Industry Development Association, Natural Language Processing Seminar, Kyoto, November 1998, “Near-synonymy and semantic distance: Problems in lexical choice and intelligent spelling checking”.

AAAI Fall Symposium on Context in Knowledge Representation and Natural Language, Cambridge, MA, November 1997. “Context as a spurious concept”.

Conference on Ontological and Linguistic Categories, University of San Marino, June 1997. “Near-synonymy and the structure of lexical knowledge”.

The tenth biennial conference on AI and Cognitive Science, Society for the Study of Artificial Intelligence and the Simulation of Behaviour, Sheffield, April 1995. “Repairing conversational misunderstandings and non-understandings”.

International Symposium on Spoken Dialogue, Waseda University, Tokyo, November 1993. “Repairing conversational misunderstandings and non-understandings”.

ATR International Workshop on Speech Translation, Kyoto, November 1993. “Repairing conversational misunderstandings and non-understandings”.

Symposium on Symbol Manipulation, Connectionism, and the Semantics of Natural Language, Helsinki, November 1991. “Ontological assumptions in knowledge representation” and “Repairing conversational misunderstandings and non-understandings”.

Conference of the Canadian Society for Computational Studies of Intelligence, Ottawa, May 1990. “Planning the future of natural language research (even in Canada)”.

Other invited conference participation

“Competitor”, NLP Idol panel [discussing old research papers that should be “plucked from obscurity”] at the 2012 Conference of the North American Chapter of the Association for Computational Linguistics, June 2012.

Panelist, Workshop on Semantic Search, at Human Language Technologies: The 11th Annual Conference of the North American Chapter of the Association for Computational Linguistics, Los Angeles, June 2010.

Panelist, Translation Technology Showcase, Multilingual Translation Technology Centre, University of Toronto, January 2001.

Panelist, AAAI Symposium on Intelligent Text Summarization, Stanford, March 1998.

Invited respondent, Workshop on “Views on pragmatics: From the conventional to the computational”, University of Western Ontario, October 1991.

Discussant, Workshop on Formal Aspects of Semantic Networks, Santa Catalina, February 1989.

Invited seminars and colloquia

“Natural language processing methods for the detection of symptoms of Alzheimer’s disease in writing.”

Språkbanken, University of Gothenburg, May 2013.
 Department of Computer Science, University of Illinois, November 2012.
 Deutsche Forschungszentrum für Künstliche Intelligenz, Berlin, September 2012.
 Department of Linguistics, University of Potsdam, September 2012.
 Linguistic Computing Laboratory, Sapienza University of Rome, September 2012.
 College of Information Science and Technology, Nanjing University of Aeronautics and Astronautics, July 2012.
 Faculty of Information Technology, Monash University, August 2011.
 Department of Computer Science and Software Engineering, University of Melbourne, August 2011.
 Google Research, July 2010.

“Who decides what a text means?”

Språkbanken, University of Gothenburg, May 2013.
 Faculty of Computer Science and Information Technology, University of Malaysia, Sarawak, August 2009.

“Understanding text from both the user’s and the writer’s perspective”

KMDI@13 lecture series, Knowledge Media Design Institute, University of Toronto, April 2009.

“Semantic distance measures with distributional profiles of coarse-grained concepts” [co-authored with Saif Mohammad].

Faculty of Computer Science and Information Technology, University of Malaysia, Sarawak, August 2009.
 Department of Systems Engineering and Engineering Management, Chinese University of Hong Kong, May 2009.
 Centre for Research in Intelligent Systems, Faculty of Information Technology, Monash University, April 2009.
 Center for Cognitive Science, University at Buffalo, November 2008.

“Lexical chains and semantic distance, within and across languages” [co-authored with Saif Mohammad].

Division of Chinese, Nanyang Technological University, April 2008.

“Fine-grained differences and similarities in meanings”.

Ubiquitous Knowledge Processing Lab, Department of Computer Science, Technical University of Darmstadt, May 2009.
 Institut für Maschinelle Sprachverarbeitung, University of Stuttgart, May 2009.
 European Media Lab, Heidelberg, March 2008.
 Computer Laboratory, University of Cambridge, January 2008.
 Department of Computer Science, University of Maryland, College Park, April 2007.
 Department of Computer Science, National University of Singapore, February 2007.
 Division of Information Studies, Nanyang Technological University, February 2007.
 Department of Computer Science, University of Colorado at Boulder, March 2006.
 Information Sciences Institute, University of Southern California, January 2006.
 Department of Computing, Macquarie University, November 2005.
 School of Computer Science and Software Engineering, Monash University, November 2005.
 Department of Computer Science and Software Engineering, University of Melbourne, November 2005.
 Simon Fraser University, March 2005.

“Academic publishing in computer science”.

University of Toronto, Department of Computer Science, Research skills seminar series, March 2007.

“Analyzing medical text to answer clinicians’ questions”.

Computational Pharmacology Group, University of Colorado Health Sciences Center, February 2006.

“Views of text-meaning in computational linguistics: Past, present, and future”.

Department of Linguistics, University of Colorado at Boulder, October 2005.

“Measures of semantic relatedness and the detection and correction of real-word spelling errors”.

School of Informatics, University of Edinburgh, August 2003.
 Sharp Laboratories Europe, Oxford, August 2003.
 Computational Linguistics Laboratory, Nara Institute of Science and Technology, July 2003.
 Department of Computer Science, Concordia University, October 2002.
 Department of General Linguistics, University of Helsinki, August 2002.
 Department of Computer Science, University of Minnesota, Duluth, April 2002.
 Department of Computer Science, University of Pittsburgh, February 2002.
 Department of Computing Science, University of Alberta, November 2001.

“Semantic things to do to text”.

Artificial Intelligence in Medicine, Inc., Symposium, Toronto, November 2002.

“Near-synonymy and the structure of lexical knowledge”.

IBM T.J. Watson Research Center, Hawthorne, NY, May 2000.

Department of Computer Science, University of Colorado at Boulder, April 2000.
 Center for Language and Speech Processing, Johns Hopkins University, April 1999.
 Department of Computer Science, University of Rochester, March 1999.
 Department of Electrical Engineering and Computer Science, University of Wisconsin–Milwaukee, February 1999.
 Natural Language Group, Department of Computer Science, Columbia University, February 1999.
 Center for Cognitive Science, State University of New York at Buffalo, January 1999.
 Microsoft Research Institute, Macquarie University, April 1998.
 Department of Computer Science, Monash University, April 1998.
 Cognitive Science “Distinguished Lecturer” Series, Carleton University, February 1998.

“Repairing conversational misunderstandings and non-understandings”

Department of Computer Science, University of Manitoba, January 1997.
 Department of Computer Science, Monash University, May 1996.
 Microsoft Research Institute, Macquarie University, May 1996.
 Department of Linguistics, The Ohio State University, March 1996.
 Center for Cognitive Science, State University of New York at Buffalo, February 1994.
 Computing Research Laboratory and Department of Computer Science, New Mexico State University, March 1993.

“Research in computational models of style” (with Chrysanne DiMarco)

Gesellschaft für Mathematik und Datenverarbeitung, Institut für integrierte Publikations- und Informationssysteme, Darmstadt, November 1994.
 Forschungsinstitut für anwendungsorientierte Wissensverarbeitung, Ulm, November 1994.
 Microsoft Corporation, Redmond, Washington, July 1993

“Writing and publishing in computer science”.

University of Waterloo, Department of Computer Science, Research skills seminar series, November 1992; repeated November 1993, November 1994, November 1995, November 1997.

“Ontological assumptions in knowledge representation”.

Cognitive Science colloquium, University of Waterloo, April 1995.
 Department of Computer Science, Monash University, May 1993.
 Department of Computer Science, Carleton University, March 1992.
 Cognitive Science Group, Scarborough College, University of Toronto, February 1992.
 Department of Computer Science, University of Chicago, February 1992.
 Computing Laboratory, University of Cambridge, November 1991.
 Corporate Research and Development Center, General Electric Company, Schenectady, NY, March 1991.
 Department of Computer Science, State University of New York at Buffalo, October 1990.
 Department of Computer Science, Virginia Polytechnic Institute and State University, April 1990.
 Department of Computer Science, University of Rochester, January 1990.
 Department of Computer Science, Carnegie Mellon University, December 1989.
 Department of Computer Science, Brown University, October 1989.

“Knowledge representation problems for natural language understanding”.

IBM T.J. Watson Research Center, Hawthorne, NY, September 1989.
 Institut für Wissensbasierte Systeme, IBM Deutschland, Stuttgart, July 1989.
 MCC (Microelectronics and Computer Technology Corporation), Austin, Texas, March 1989.
 Information Sciences Institute, University of Southern California, February 1989.
 Department of Computer Science, New York University, November 1988.
 Wiener Workshop Wissensbasierte Sprachverarbeitung, Österreichische Gesellschaft für Artificial Intelligence, August 1988.

“Presuppositions as beliefs”.

School of Cognitive Studies, University of Sussex, May 1988.

“Computational models of ambiguity resolution”.

Department of Computer Science, University of Glasgow, June 1988.
 School of Cognitive Studies, University of Sussex, May 1988.
 Department of Computer Science, University of Essex, May 1988.
 Computing Laboratory, University of Cambridge, May 1988
 Centre for Cognitive Science, University of Edinburgh, April 1988
 Conference on semantic ambiguity, Adelphi University, April 1988.
 Division of Life Sciences, Scarborough College, University of Toronto, March 1988.

“The resolution of natural language ambiguity”.

Department of Artificial Intelligence, University of Edinburgh, April 1988.
 Department of Computer Science, State University of New York at Buffalo, February 1988.

“Where parsing preferences come from”.

Annual meeting of the Artificial Intelligence and Robotics Programme, Canadian Institute for Advanced Research, Banff, September 1986.

“Computational ambiguity resolution”.

Computing Research Laboratory, New Mexico State University, September 1985.
 Department of Psychology, University of Rochester, March 1985.

Department of Computer Science, University of Toronto, March 1985.

“Semantic interpretation against ambiguity”.

Department of Electrical Engineering and Computer Science, Northwestern University, February 1987.
 Department of Computer Science, Australian National University, June 1985.
 Department of Psychology, Monash University, June 1985.
 Department of Computer Science, Monash University, June 1985.
 IBM T.J. Watson Research Center, Yorktown Heights, April 1985.
 Bell Communications Research, April 1985.
 AT&T Bell Laboratories, April 1985.
 Department of Computing and Information Science, Queen’s University, February 1985.
 Linguistics Programme and Department of Computer Science, University of Manitoba, November 1984.
 Department of Computer Science, Indiana University, November 1984.
 Artificial Intelligence Symposium, Department of Computer Science, Columbia University, November 1984.
 Department of Computer Science, University of Waterloo, June 1984.
 McLuhan Centre for Culture and Technology, University of Toronto, April 1984.

“Word sense and case slot disambiguation in formal semantics for natural language understanding”.

Department of Computer Science, Carnegie-Mellon University, April 1983.
 Department of Computer Science, University of Toronto, January 1983.
 Department of Computer Science, University of Rochester, December 1982.

Other professional activities

Industry involvement

Adviser, Sonic Boomerang Inc., Toronto, 2000–04.

Commercialized technology for determining sentiment towards stocks in chat and message boards.

Co-founder, Inkpot Software Inc., Toronto and Waterloo, 1997–99.

Commercialized technology that used natural-language generation techniques for personalizing health information for individual consumers and patients.

Editorships

Series Editor, Synthesis Lectures on Human Language Technologies, Morgan and Claypool Publishers, 2007– .

Book review editor and editorial board member, *Computational linguistics*, 1985– .

Editor, *Canadian Artificial Intelligence*, 1984–1987. Editor emeritus and book review editor, 1988–1999.

Associate editor or editorial board member

Computational Intelligence, 2003–10.

IEEE Expert, 1992–96.

Machine Translation, 1989–2007.

Offices in professional organizations, etc

Treasurer [elected, international level], Association for Computational Linguistics, 2008–2017 [two five-year terms].

Past Chair, Executive Board, North American Chapter of the Association for Computational Linguistics (NAACL), 2006–2009. Previously, elected chair, 2004–2005; elected member 2001–2002, re-elected 2003–2004.

Chair, Human Language Technology Advisory Board [oversees the Human Language Technology conference series], 2002–2009.

Information Officer, Association for Computational Linguistics Special Interest Group on the Lexicon (ACL SIGLEX), 2000–2003.

Conference or workshop organizer or organizing committee member

Organizer, Workshop on Computational Approaches to Synonymy, at the Symposium on Rethinking Synonymy (organized by SKY, the Linguistic Association of Finland), Helsinki, October 2010.

Organizer, Second Workshop on Text Meaning and Interpretation, at the 42nd Meeting of the Association for Computational Linguistics, Barcelona, July 2004 (with Sergei Nirenburg).

Organizer, Workshop on Text Meaning, at the combined Human Language Technology Conference and 3rd Meeting of the North American Chapter of the Association for Computational Linguistics, Edmonton, May 2003 (with Sergei Nirenburg).

Program committee member and area chair, First meeting of the North American Chapter of the Association for Computational Linguistics, Seattle, April 2000.

Organizer, 9th International Workshop on Natural Language Generation, Niagara-on-the-Lake, Ontario, August 1998 (with Chrysanne DiMarco and Eduard Hovy).

Committee member, Canadian Society for Computational Studies of Intelligence, Conference, Toronto, May 1998.

Sub-chair, 15th International Conference on Computational Linguistics, Kyoto, August 1994.

Co-chair, Natural language sub-committee, American Association for Artificial Intelligence, National Conference, 1991.

Program committee member, Sixth annual conference, University of Waterloo Centre for the *New Oxford English Dictionary*, 1990

Member, Natural language sub-committee, American Association for Artificial Intelligence, National Conference, 1990.

Program committee, International Conference on Computers and the Humanities and conference of the Association for Literary and Linguistic Computing, Toronto, June 1989.

Program committee, Computers in the Humanities: Today's Research, Tomorrow's Teaching, Toronto, April 1986.

Program committee, Canadian Society for Computational Studies of Intelligence, Conference, 1986.

Program committee, Workshop on Theoretical Approaches to Natural Language, Halifax, May

1985.

Miscellaneous activities

Project advisor, *Data Mining the 1918 Influenza Pandemic*, Virginia Polytechnic Institute and State University, 2012–14.

Refereeing, reviewing, etc

2013

Reviewer, Fellowship proposal, Fernand Braudel–IFER programme, Fondation Maison de Sciences de l'Homme, November 2013.
 Reviewer, 9th Language Resources and Evaluation Conference, Reykjavik, May 2014 [4 short papers].
 Reviewer, 14th Conference of the European Chapter of the Association for Computational Linguistics, Gothenburg, April 2014 [3 papers].
 Reviewer, 11th Annual Workshop of the Australasian Language Technology Association, Brisbane, December 2013 [1 paper].
 Reviewer, Conference on Recent Advances in Natural Language Processing, Hissar, Bulgaria, September 2013 [3 papers].
 Reviewer, *Computational Linguistics* [1 short squib].
 Reviewer, The 7th Linguistic Annotation Workshop and Interoperability with Discourse, Sofia, August 2013 [2 papers].
 Sub-reviewer, *Scientia Horticulturae* [1 paper].
 Reviewer, International Conference of the German Society for Computational Linguistics and Language Technology, Darmstadt, Germany, September 2013 [2 papers].
 Reviewer, 51st Annual Meeting of the Association for Computational Linguistics, Sofia, August 2013 [2 long papers, 1 short paper].
 Reviewer, 2013 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Atlanta, June 2013 [2 papers].
 Assessor, Australian Research Council [1 grant proposal].
 Reviewer, U.S. National Science Foundation [1 grant proposal].

2012

External reviewer for two faculty appointment, tenure, and/or promotion files.
 Reviewer, Discovery Grant proposals, NSERC, December 2012 [2 proposals].
 Reviewer, *Computational Linguistics* [1 paper].
 Reviewer, *Dialogue and Discourse* [1 paper].
 Reviewer, 3rd Workshop on Cognitive Aspects of the Lexicon, 24th International Conference on Computational Linguistics, Mumbai, December 2012 [2 papers].
 Reviewer, 2012 Joint Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning, Jeju, Korea, July 2012 [4 papers].
 Assessor, Australian Research Council [1 grant proposal].
 Reviewer, First Joint Conference on Lexical and Computational Semantics, Montreal, June 2012 [1 paper].
 Reviewer, 2012 Conference on Empirical Methods in Natural Language Understanding and Conference on Natural Language Learning (EMNLP-CoNLL-2012), Jeju, Korea, July 2012 [3 long papers, 1 short paper].
 Reviewer, 9th Extended Semantic Web Conference, Crete, May 2012 [2 papers].
 Reviewer, 2012 Informatics for Phylogenetics, Evolution, and Biodiversity (iEvoBio 2012), Ottawa, July 2012 [1 abstract].
 Reviewer, 50th Annual Meeting of the Association for Computational Linguistics, Jeju, Korea, July 2012 [4 long and 4 short papers].
 Reviewer, Workshop on Speech and Language Processing for Assistive Technologies, Montreal, June 2012 [2 papers].
 Reviewer, 2012 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Montreal, June 2012 [2 papers].
 Reviewer, Student Research Workshop, 13th Conference of the European Chapter of the Association for Computational Linguistics, Avignon, April 2012 [3 papers].
 Reviewer, *Computational Linguistics* [1 paper].

2011

External reviewer for three faculty appointment, tenure, and/or promotion files.
 Reviewer, Discovery Grant proposals, NSERC, December 2011 [2 proposals].
 Reviewer, *IEEE Internet Computing* [1 paper].
 Reviewer, *Information Fusion* [1 paper].
 Reviewer, 13th International Conference on Intelligent Text Processing and Computational Linguistics, New Delhi, March 2012 [4 papers, 3 collaboratively with students].
 Reviewer, 8th Discourse Anaphora and Anaphora Resolution Conference, Faro, October 2011 [2 abstracts].
 Assessor, Australian Research Council [8 grant proposals].
 Assessor, Canada Council for the Arts, Killam Research Fellowship [1 application].
 Reviewer, TextInfer Workshop on Textual Entailment, Edinburgh, July 2011 [1 paper].
 Reviewer, 2011 Conference on Recent Advances in Natural Language Processing (RANLP), September 2011, Hissar, Bulgaria [5 papers].
 Reviewer, 2011 Conference on Empirical Methods in Natural Language Processing, Edinburgh, July 2011 [4 papers].
 Reviewer, 12th Conference of the Pacific Association for Computational Linguistics, Kuala Lumpur, July 2011 [3 papers].
 Reviewer, 49th Annual Meeting of the Association for Computational Linguistics, Portland, Oregon, June 2011 [6 papers].
 Reviewer, Discovery Grant proposals, NSERC, January 2011 [2 proposals].

2010

External reviewer for six faculty Green Card, appointment, tenure, and/or promotion files.
 Reviewer, *Language Resources and Evaluation*, special issue on Collaboratively Constructed Language Resources, August 2010 [2 papers].
 Reviewer, 2010 Conference on Empirical Methods in Natural Language Processing, Cambridge, MA, October 2010 [1 paper].

Reviewer, CLEF-Lab on Plagiarism Detection and Wikipedia Vandalism Detection, (PAN'10) [2 papers].
 Reviewer, Workshop on Cognitive Aspects of the Lexicon, 23rd International Conference on Computational Linguistics, Beijing, August 2010 [2 papers].
 Reviewer, Workshop on Collaboratively Constructed Semantic Resources, 23rd International Conference on Computational Linguistics, Beijing, August 2010 [1 paper].
 Reviewer, 4th IEEE International Conference on Semantic Computing, Pittsburgh, September 2010 [4 papers].
 Assessor, Australian Research Council [3 grant proposals].
 Member, Coordinating Committee for the 50th Annual Meeting of the Association for Computational Linguistics [includes reviewing bids for conference location and venue, selection of conference chairs, general oversight].
 Reviewer, 48th Annual Meeting of the Association for Computational Linguistics, Uppsala, July 2010 [10 papers].
 Reviewer, *Computational Linguistics* [1 paper, twice].
 Reviewer, course proposals, Linguistic Society of America Summer Institute, Boulder, CO, Summer 2011. [5 proposals]
 Reviewer, 23rd Canadian Conference on Artificial Intelligence, Ottawa, May 2010 [4 papers]

2009

External or internal reviewer for three faculty appointment, tenure, and/or promotion files.
 Member, Coordinating Committee for the 49th Annual Meeting of the Association for Computational Linguistics [includes site visit to choose venues, selection of conference chairs, general oversight].
 Reviewer, Ontario Centres of Excellence [1 proposal].
 Reviewer, 2010 Conference of the North American Chapter of the Association for Computational Linguistics—Human Language Technologies (NAACL-HLT 2010), Los Angeles, June 2010 [5 papers].
 Reviewer, 11th International Conference on Intelligent Text Processing and Computational Linguistics (CICLING-2010), Iași, Romania, March 2010 [7 papers].
 Reviewer, 7th International Conference on Language Resources and Evaluation (LREC), Malta, May 2010 [6 papers].
 Reviewer, *Language Resources and Evaluation* [1 paper].
 Assessor, Australian Research Council [2 grant proposals].
 Reviewer, Conference of the Pacific Association for Computational Linguistics, Sapporo, September 2009 [2 papers].
 Reviewer, Workshop on Applied Textual Inference at ACL-IJCNLP 2009, Singapore, August 2009 [2 papers].
 Reviewer, Workshop on Collaboratively Constructed Semantic Resources at ACL-IJCNLP 2009, Singapore, August 2009 [2 papers].
 Reviewer, Third IEEE International Conference on Semantic Computing, Berkeley, September 2009 [3 papers].
 Reviewer, 7th Discourse Anaphora and Anaphor Resolution Colloquium, Goa, India, November 2009 [2 papers].
 Reviewer, Conference on Empirical Methods in Natural Language Processing, Singapore, August 2009 [3 papers].
 Reviewer, 47th Annual Meeting of the Association for Computational Linguistics and the 4th International Joint Conference on Natural Language Processing of the Asian Federation of Natural Language Processing, Singapore, August 2009 [4 long papers].
 U.S. National Science Foundation, 5 NSF-sized proposals and two-day proposal-review panel, March 2009.
 Reviewer, North American Conference on Computing and Philosophy, June 2009, Bloomington, IN [2 papers].
 Reviewer, *Computational Linguistics* [2 papers].
 Reviewer, NAACL-HLT Student Research Workshop 2009, Boulder, June 2009 [1 paper].
 Reviewer, 22nd Canadian Conference on Artificial Intelligence, Kelowna, B.C., May 2009 [4 papers]

2008

External reviewer for four faculty Green Card, appointment, tenure, and/or promotion files.
 Reviewer, EACL 2009 Workshop on Language Technology and Resources for Cultural Heritage, Social Sciences, Humanities, and Education (LaTeCH-SHELT&R 2009), March 2009, Athens, Greece [1 paper].
 Reviewer, North American Chapter of the Association for Computational Linguistics Human Language Technologies Conference, Boulder, June 2009 [3 papers].
 Reviewer, 10th International Conference on Intelligent Text Processing and Computational Linguistics, Mexico City, February 2009 [4 papers].
 Reviewer, *Journal of Artificial Intelligence Research* [1 paper].
 Reviewer, 12th Conference of the European Chapter of the Association for Computational Linguistics, Athens, April 2009 [3 papers].
 Reviewer, AAAI Spring Symposium on Learning by Reading and Learning to Read, Stanford, March 2009 [4 papers].
 Reviewer, Australasian Language Technology Workshop, Hobart, December 2008 [2 papers].
 Reviewer, grant proposal, U.S. National Science Foundation, August 2008.
 Reviewer, *Computational Linguistics*.
 Reviewer, 8th Biennial Conference of the Association for Machine Translation in the Americas, Hawai'i, October 2008 [3 papers].
 Reviewer, First International Workshop on Quantitative Semantic Methods for the Internet, Monterrey, Mexico, November 2008 [2 papers].
 Reviewer, Conference on Empirical Methods in Natural Language Processing, Waikiki, October 2008. [4 papers].
 Assessor, Australian Research Council [4 grant proposals].
 Reviewer, COLING Workshop on Cognitive Aspects of the Lexicon, Manchester, August 2008 [2 papers].
 Reviewer, 20th International Conference on Computational Linguistics, Manchester, August 2008 [5 papers].
 Reviewer, Workshop on Uncovering Plagiarism, Authorship, and Social Software Misuse, at ECAI'08, Patras, July 2008 [2 papers].
 Assessor, Israel Science Foundation [1 research proposal].
 Reviewer, Second IEEE International Conference on Semantic Computing, Santa Clara, August 2008 [2 papers].
 Reviewer, Third Workshop on Issues in Teaching Computational Linguistics, Columbus, Ohio, June 2008 [2 papers].
 Reviewer, book proposal, Edinburgh University Press.
 Reviewer, Workshop on Natural Language Processing Resources, Algorithms, and Tools for Authoring Aids, at the Language Resources and Evaluation Conference, Marrakech, June 2008 [2 papers].
 Reviewer, 21st Canadian Conference on Artificial Intelligence, Windsor, May 2008 [3 papers].
 Reviewer, 46th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies, Columbus, Ohio, June 2008 [5 long papers and 2 short papers].
 Reviewer, CRD Grant proposal, NSERC, February 2008.
 Reviewer, Discovery Grant proposal, NSERC, January 2008.

2007

External reviewer for one faculty tenure, and/or promotion file.

Reviewer, *International Journal of Computers and Applications*, December 2007 [1 paper].
 Reviewer, 6th Language Resources and Evaluation Conference, Marrakech, May 2008 [6 short papers].
 Reviewer, Second International Symposium on Languages in Biology and Medicine, Singapore, December 2007 [3 papers].
 Reviewer, *Computational Linguistics* [2 papers]
 Reviewer, *Artificial Intelligence* [1 paper]
 Reviewer, *Journal of Web Semantics* [1 paper]
 Reviewer, First IEEE International Conference on Semantic Computing, Irvine, September 2007 [4 papers]
 Reviewer, International Workshop on Plagiarism Analysis, Authorship Identification, and Near-Duplicate Detection, Amsterdam, July 2007 [2 papers].
 Assessor, Australian Research Council [4 grant proposals].
 Reviewer, Conference of the Pacific Association for Computational Linguistics (PACLING 2007), Melbourne, Australia, September 2007 [4 papers].
 Reviewer, 2007 Conference on Recent Advances in Natural Language Processing (RANLP), September 2007, Borovets, Bulgaria [2 papers].
 Panelist, Doctoral Consortium, Human Language Technologies: The Conference of the North American Chapter of the Association for Computational Linguistics, Rochester, April 2007.
 Reviewer, Conference on Empirical Methods in Natural Language Processing, Prague, June 2007 [3 papers].
 Reviewer, ACL Workshop on Textual Entailment and Paraphrase, Prague, June 2007 [3 papers].
 Reviewer, 45th Annual Meeting of the Association for Computational Linguistics, Prague, June 2007 [3 papers].
 Reviewer, Twenty-Second Conference on Artificial Intelligence (AAAI-07), Vancouver, July 2007 [1 paper].
 Reviewer, *Journal of Artificial Intelligence Research* [1 paper].
 Reviewer, *Natural Language Engineering* [1 paper].
 Reviewer, NSERC [2 grant proposals].

2006

Reviewer, 6th Discourse Anaphora and Anaphor Resolution Colloquium, March 2007, Lagos, Portugal [5 papers].
 Reviewer, Human Language Technologies: The Conference of the North American Chapter of the Association for Computational Linguistics, Rochester, April 2007 [5 papers].
 Reviewer, *Computational Linguistics* [1 paper].
 External reviewer for three faculty appointment, tenure, and/or promotion files.
 U.S. National Science Foundation, 8 CAREER proposals and one-day proposal-review panel, October 2006.
 Reviewer, Australasian Language Technology Workshop 2006, Sydney, November 2006 [2 papers].
 Reviewer, 20th International Joint Conference on Artificial Intelligence, Hyderabad, India, January 2007 [2 papers].
 Reviewer, 4th International Natural Language Generation Conference, (INLG-2006), Sydney, Australia, July 2006 [2 long and 5 short papers].
 Reviewer, 2006 Conference on Empirical Methods in Natural Language Processing (EMNLP 2006) Sydney, Australia, July 2006 [8 papers].
 Australian Research Council [3 grant proposals].
 Reviewer, 21st International Conference on Computational Linguistics and 44th Conference of the Association for Computational Linguistics, Sydney, Australia, July 2006 (COLING/ACL 2006) [4 papers]
 Reviewer, Workshop on Analyzing Conversations in Text and Speech at the Human Language Technology Conference of the North American Chapter of the Association for Computational Linguistics, New York, June 2006 [1 paper]
 Reviewer, Human Language Technology Conference of the North American Chapter of the Association for Computational Linguistics, New York, June 2006 [5 papers].
 Reviewer, Workshop on "Making sense of sense" at the 11th Conference of the European Chapter of the Association for Computational Linguistics, Trento, April 2006 [3 papers].
 Reviewer, 19th Canadian Conference on Artificial Intelligence (AI-06), Quebec City, June 2006 [6 papers].
Natural Language Engineering [1 paper].
Computational Intelligence [1 paper].
 Fonds québécois de la recherche sur la nature et les technologies [1 grant proposal].
 U.S. National Science Foundation, 9 NSF-sized proposals and one-day proposal-review panel, February 2006.
 NSERC [1 grant proposal].
 Morgan Kaufmann Publishers, book proposal.

2005

Reviewer, 11th Conference of the European Chapter of the Association for Computational Linguistics, Trento, April 2006 [3 papers].
 Reviewer, Australian Language Technology Workshop, Sydney, December 2005 [4 papers].
 Reviewer, SIGIR Workshop on Methodologies and Evaluation of Lexical Cohesion Techniques in Real-World Applications, Salvador, Brazil, August 2005 [2 papers].
 Reviewer, 1st Conference on Computational Systemic Functional Grammar, Sydney, July 2005 [1 paper].
 Reviewer, 2nd International Joint Conference on Natural Language Processing, Jeju Island, Korea, October 2005 [2 papers].
 Reviewer, AAAI Workshop on Question Answering in Restricted Domains, Pittsburgh, July 2005 [3 papers].
 Reviewer, 43rd annual meeting of the Association for Computational Linguistics, Ann Arbor, June 2005 [6 papers with long reviews].
 Reviewer, student session at the 43rd annual meeting of the Association for Computational Linguistics, Ann Arbor, June 2005 [3 short papers].
 Reviewer, demo and poster session, 43rd annual meeting of the Association for Computational Linguistics, Ann Arbor, June 2005 [4 short papers].
 Reviewer, 18th Canadian Conference on Artificial Intelligence (AI-05), Victoria, May 2005 [4 long papers].
 Reviewer, Conference of the Pacific Association for Computational Linguistics, Tokyo, August 2005 [3 papers].
 Reviewer, 10th European Workshop on Natural Language Generation, Aberdeen, August 2005 [5 long papers and 1 short paper].
 Reviewer, *Computational Linguistics* [2 papers]
 U.S. National Science Foundation, 8 NSF-sized proposals and two-day proposal-review panel, September 2005.
 Australian Research Council [4 grant proposals].
 Fonds québécois de la recherche sur la nature et les technologies [1 grant proposal]

[Truncated at 2005]

Courses taught

Undergraduate courses

Computer Science D03H — *Social Impact of Information Technology* [known as Physical Sciences D03H — *Computers in Contemporary Society* until Fall 2003]: Spring 1997, Spring 1999, Winter 2000, Fall 2000, Fall 2001, Winter 2002, Fall 2002, Fall 2003 (two sections), Fall 2004, Fall 2006, Winter 2007, Fall 2007, Fall 2008, Fall 2009, Fall 2010, Winter 2012, Fall 2013, Winter 2014.

Computer Science 401H (cross-listed as 2511) — *Natural Language Computing*: Winter 2000, Winter 2001.

Computer Science C24H — *Principles of Programming Languages*: Spring 1987, Spring 1988, Spring 1990, Spring 1992, Spring 1993, Spring 1994.

Computer Science 158H or A68H — *Computer Applications*: Spring 1985, Spring 1986.

Computer Science 148H or A58H — *Introduction to Computer Science* (formerly *Introduction to Computing*): Fall 1984, Fall 1986, Fall 1987, Fall 1988, Fall 1989, Fall 1991, Fall 1992, Fall 1993, Fall 1994, Spring 1995, Spring 1996.

Computer Science A06H — *Introduction to Computer Programming*: Fall 1996, Fall 1998.

Graduate courses

Computer Science 2501H (cross-listed as 485 from 1986) — *Computational Linguistics* (formerly *Introduction to Computational Linguistics*): Fall 1984, Fall 1985, Fall 1986, Fall 1987, Fall 1988, Fall 1989 (with Janyce Wiebe), Fall 1991, Fall 1992, Fall 1993 (with Jeffrey Siskind), Fall 1994 (with Jeffrey Siskind), Fall 1995 (with Jeffrey Siskind) (simultaneously offered at the University of Waterloo as CS 684 by videoconference), Fall 1996, Fall 1998 (as 2501 only), Fall 1999, Fall 2007, Fall 2008, Fall 2009, Fall 2010, Fall 2011, Fall 2013.

Computer Science 2528H — *Advanced Computational Linguistics* (formerly *Topics in Computational Linguistics*): Spring 1984, Spring 1985, Spring 1986, Spring 1987, Spring 1988, Spring 1989, Spring 1990 (with Janyce Wiebe), Spring 1992 (with Dekai Wu), Spring 1993, Spring 1994 (with Jeffrey Siskind), Spring 1996 (also offered as University of Waterloo course CS 786), Spring 1997 (also offered as University of Waterloo course CS 786), Spring 1999, Winter 2000, Winter 2001, Winter 2002, Fall 2002, Winter 2004, Fall 2004, Winter 2007.

Supervision

Career student numbers

	<i>In progress</i>	<i>Completed</i>
Master's	0	41
PhD	5	19
Postdoctoral fellows	1	6

Master's students

Yunxing (Henry) Zhang, *Analyzing user reviews of mobile applications using natural language processing*, M.Sc.A.C. internship (at Electronic Arts, Kitchener, ON), May–December 2013.

Colin Morris, *Identifying online sexual predators by SVM classification with lexical and behavioral features*. January 2013.

Vanessa Wei Feng, *Classifying arguments by scheme*. November 2010.

Xuan Le, *Longitudinal detection of dementia through lexical and syntactic changes in writing*. January 2010.

Meghana Marathe, *Lexical chains using distributional measures of concept distance*. May 2009.

Tong Wang, *Extracting synonyms from dictionary definitions*. January 2009.

Yaroslav Riabinin, *Computational identification of ideology in text: A study of Canadian parliamentary debates*. January 2009.

Laurie Amber Wilcox-O'Hearn, September 2002– (on leave). Real-word spelling correction with trigrams.

Faye Baron, *Identifying non-compositional idioms in text using WordNet synsets*, October 2007. [Co-supervised with Suzanne Stevenson from January 2007.]

Jianhua (Jane) Li, *Modelling semantic knowledge for a word prediction task*, October 2006.

Benjamin Bartlett. *Finding paraphrases using PNrul*, September 2006.

Tristan Miller. *Generating coherent extracts of single documents using latent semantic analysis*, January 2003.

Afsaneh Fazly [Fazli]. *The use of syntax in word completion utilities*, January 2002.

Eric Joanis, 1998–September 2001 [transferred to Suzanne Stevenson].

Vivian Tsang, 1999–July 2000 [transferred to Suzanne Stevenson].

Neil Graham. *Automatic detection of authorship changes within single documents*, January 2000.

Mary Ellen Foster. *Automatically generating text to accompany information graphics.*, August 1999.

Alexander Budanitsky, 1996–1999. *Lexical semantic relatedness and its application in natural language processing*. [PhD candidacy, equivalent to MSc.]

Vlado Kešelj [Department of Computer Science, University of Waterloo], *Multi-agent systems for Internet information retrieval using natural language processing*, September 1997.

Kimberley Parsons [Department of Computer Science, University of Waterloo; co-supervised with Chrysanne DiMarco], *An authoring tool for customizable documents*, May 1997.

Melanie Baljko, *Ensuring stylistic congruity in collaboratively written text: Requirements analysis and design issues*, May 1997.

Angela Glover, *Automatically detecting stylistic inconsistencies in computer-supported collaborative writing*, January 1996.

Daniel Ansari, *Deriving procedural and warning instructions from device and environment models*,

June 1995.

David St-Onge, *Detecting and correcting malapropisms with lexical chains*, March 1995.

Robert Lizée, *A study of natural language quantification and anaphora through families of sets and binary relations*, February 1995.

Daniel Marcu, *A formalism and an algorithm for computing pragmatic inferences and detecting infelicities*, September 1994.

Linda Peto [co-supervised by Dekai Wu], *A comparison of two smoothing methods for word bigram models*, April 1994.

Philip Edmonds, *A computational model of collaboration on reference in direction-giving dialogues*, October 1993.

Peter Heeman, *A computational model of collaboration on referring expressions*, October 1991.

Carson Schütze [Department of Linguistics, co-supervised by Peter Reich], *Grammaticality judgments and linguistic methodology*, September 1991.

Julie Payette [Department of Electrical Engineering], *Intelligent computer-assisted instruction in syntactic style*, October 1990.

Nathalie Japkowicz [co-supervised with Janyce Wiebe as primary advisor], *The translation of basic topological prepositions from English into French*, October 1990.

Daniel Lyons, *A compositional semantics for focusing subjuncts*, September 1989.

Mark Ryan [co-supervised with Chrysanne DiMarco], *The computational codification of the semantic aspects of style*, August 1989.

Toby Walker, 1988–1990 [discontinued studies].

Jane Morris, *Lexical cohesion, the thesaurus, and the structure of text*, October 1988.

Mara Mieзитis, *Generating lexical options by matching in a knowledge base*, October 1988.

Mark Catt, *Intelligent diagnosis of ungrammaticality in computer-assisted language instruction*, October 1988.

Murray Watt, *The realization of natural language with pragmatic effects*, August 1988.

Susan McRoy, *The influence of time and memory constraints on the resolution of structural ambiguity*, October 1987.

Diane Horton, *Incorporating agents' beliefs in a model of presupposition*, October 1986.

Barbara Brunson [Linguistics forum, co-supervised with Elizabeth Cowper, Department of Linguistics], *A processing model for Warlpiri syntax and implications for linguistic theory*, September 1986.

Brenda Fawcett, *The representation of ambiguity in opaque contexts*, October 1985.

Bart Selman, *Rule-based processing in a connectionist system for natural language understanding*, January 1985.

Yawar Ali, *Understanding adjectives*, January 1985.

Doctoral students

Nona Naderi, September 2013– (in progress).

Kathleen Fraser, topic in neuroimaging in studies of Alzheimer’s disease, September 2011– (in progress) [co-supervised with Jed Meltzer, Dept of Psychology and Baycrest].

Vanessa Wei Feng, topic in discourse and argumentation, January 2011– (in progress).

Varada Kolhatkar, topic in abstract anaphor resolution, September 2009– (in progress).

Tong Wang, topic in lexical choice in near-synonymy, January 2009– (in progress).

Julian Brooke, *Computational Approaches to Style and the Lexicon*, September 2009–December 2013.

Ulrich Germann, September 2003 – March 2013. *Syntax-aware phrase-based statistical machine translation from German to English*. Terminated in PhD program, left with MSc, April 2013.

Frank Rudzicz, September 2006 – April 2011. *Production Knowledge in the Recognition of Dysarthric Speech*.

Eric J.M. Smith, January 2007 – April 2010 [co-supervised with Elizabeth Cowper, Department of Linguistics]. *Query-Based Annotation and the Sumerian Verbal Prefixes*.

Libby Barak, September 2008 – April 2010 (transferred to Suzanne Stevenson).

Hani Safadi, September – December 2008 (left program).

Saif Mohammad, September 2003 – February 2008. *Measuring semantic distance using distributional profiles of concepts*.

Xiaodan Zhu, 2003–04 [transferred to Gerald Penn].

Yun Niu, July 2001 – March 2007. *Analysis of semantic classes: Toward non-factoid question answering*.

Alexander Budanitsky, 1999 – January 2004. *Lexical semantic relatedness and its application in natural language processing*. [Left before completion.]

Jane Morris [Faculty of Information Studies; co-supervised with Clare Beghtol], September 2000 – March 2006. *Readers’ perceptions of lexical cohesion and lexical semantic relations in text*, February 2007.

Melanie Baljko, 1997 – July 2004. *Computational simulations of mediated face-to-face multimodal communication*. [Co-supervised with Fraser Shein.]

Natalia Modjeska [guest student from Division of Informatics, University of Edinburgh; co-supervised with Bonnie Webber], 2001–2003. *Resolving other-anaphora*.

Diana Zaiu Inkpen, 1998–2003. *Building a lexical knowledge base of near-synonym differences*.

Grzegorz (Greg) Kondrak, 1997–2002. *Algorithms for language reconstruction*.

Philip Edmonds, *Semantic representations of near-synonyms for automatic lexical choice*, September 1999.

Daniel Marcu, *The rhetorical parsing, summarization, and generation of natural language texts*, January 1998.

Stephen Green, *Automatically generating hypertext by computing semantic similarity*, August 1997.

Manfred Stede, *Lexical semantics and knowledge representation in multilingual sentence generation*, May 1996.

Susan McRoy, *Abductive interpretation and reinterpretation of natural language utterances*, July 1993.

Suzanne Stevenson, guest PhD student from the University of Maryland, 1991–94. *A competitive attachment model for resolving syntactic ambiguities in natural language parsing*.

Diane Horton, Repair of plan mis-recognition, 1986–1993 [discontinued studies].

Mark Ryan, 1991–92 [discontinued studies].

Judith Dick [co-supervised with Ann Schabas, Faculty of Library and Information Science], *A conceptual, case-relation representation of text for intelligent retrieval*, April 1991.

Jean-Pierre Corriveau, *Time-constrained memory for reader-based text comprehension*, January 1991.

Yves Lespérance [co-supervised with Hector Levesque as primary advisor from 1988], *A formal theory of indexical knowledge and action*, January 1991.

Kem Luther, 1990 [discontinued studies].

Chrysanne DiMarco, *Computational stylistics for natural language translation*, February 1990.

Charles Pilkington, *Connectionist models of natural language processing*, 1986–1987 [transferred to Geoff Hinton after completion of depth oral].

Edwin Plantinga, *Computational metaphor comprehension*, 1985–87. [discontinued studies].

Undergraduates

Nishanthan Velauthampillai, Unsupervised extraction of narrative chains and schemas, independent study project (CSC 494), Winter 2012.

Arturo Martínez Peguero, Clinical form classification, independent study project (CSC 494), Winter 2012.

Michelle Tran, Verifying author's style in Alzheimer's disease, independent study project (CSC 494), Winter 2011.

Colin Morris, Determining political beliefs from what MPs say in Parliament, NSERC Undergraduate Student Research Award, Summer 2010.

Magali Boizot-Roche, Determining political beliefs from what MPs say in Parliament, informal R.A., Winter 2010.

Jory Graham, Determining political beliefs from what MPs say in Parliament, NSERC Undergraduate Student Research Award, Summer 2009.

Youngchan Kim, Detecting markers of Alzheimer's disease in literary texts, independent study project (CSC 494), Winter 2009.

Michael Reimer, Semantics in word prediction for disabled users, NSERC Undergraduate Student Research Award, Summer 2008. [Co-supervised by Frank Rudzicz]

Matthew MacPherson, Semantics in word prediction for disabled users, NSERC Undergraduate Student Research Award, Summer 2007.

Yaroslav Riabinin, Text classification with concept distance, independent study project (CSC 494H), Winter 2007.

Ol'ga Feiguina, Computational stylometry, independent study project (CSC 494H), Winter 2004, and NSERC Undergraduate Student Research Award, Summer 2004.

James Bergstra, Named entity recognition in biomedical text, independent study project (CSC 494H), Fall 2003 – Winter 2004.

James Bergstra, Extracting information on protein interactions from biomedical text, NSERC Undergraduate Student Research Award, Summer 2003.

Ol'ga Feiguina, Extracting information from machine-readable dictionaries, research assistant and NSERC Undergraduate Student Research Award, 2002–03.

Faye Baron, Sentiment mining in text, independent study project (CSC 494H), Summer 2001.

Bhaskara Marthi, Bigrams in stylometrics, independent study project (CSC 494H), Fall 1999 – Winter 2000.

Andreas Berndt, guest student from the University of Bielefeld, Summarizer's workbench, February–April 1999.

Adrian Corduneanu, A pylonic decision-tree language model, Winter 1998–99. [Primary advisor: Frederick Jelinek, The Johns Hopkins University].

Melanie Baljko (NSERC Summer Fellow), Computational analysis of writing style, Summer 1995.

Dan Melamed, Independent study project, Spring 1992.

Noel Harding, Independent study project, Spring 1992.

Oliver Schulte (NSERC Summer Fellow), Porting Penman and Loom, Summer 1990.

Dawna Martin, Independent study projects, 1987–1989.

Steve Harris (NSERC Summer Fellow), Development of an ATN parser, Summer 1987.

Anton Geshelin (NSERC Summer Fellow), Implementing a Warlpiri parser and the Femto-Frail frame system, Summer 1986.

Barbara Brunson and Michael Stairs (NSERC Summer Fellows), Debugging and installation of ATN and Marcus parser on Lisp machines and VAX, Summer 1985.

Barbara Brunson, supervision of Linguistics 1551H (reading course) "Thematic argument structure and prepositional phrase attachment", Spring 1986.

Barbara Brunson, "Experiments on prepositional phrase attachment", Spring 1985.

Post-Doctoral Fellows

Alistair Kennedy, June 2012 – February 2013.

Frank Rudzicz, January–April 2011.

Paul Cook, September 2010 – June 2011.

Kinfe T. Mengistu, February 2010 – April 2011.

Dekai Wu, 1992.

Janyce Wiebe, 1989–90.

External dissertation or thesis examiner or committee member

External PhD committee member, Alla Rozovskaya, *Automated Methods for Text Correction*, Department of Linguistics, University of Illinois, November 2012–October 2013.

MASc committee member, Colleen Denyse Desaulniers Smith, *A Concept-based P300 Communication System*, Institute of Biomaterials and Bioengineering, University of Toronto, August 2012.

External PhD examiner, William Hollingsworth, *Using lexical chains to characterise scientific text*, University of Cambridge, January 2008.

External thesis proposal assessor, Jing Lin, University of Aberdeen, December 2006.

External MSc thesis examiner, Michael G. Mulcahy, *Seeking answers with lexically cohesive term expansions*, University of Limerick, April 2006.

External dissertation examiner, Ou Shiyan, *Automatic multi-document summarization using a variable-based framework*, Nanyang Technological University, Singapore, October 2005.

External doctoral committee member, Smaranda Muresan, *Learning constraint-based grammars from representative examples: Theory and applications*, Columbia University, September 2003–June 2006.

External dissertation examiner and re-examiner, Ian Edward Thomas, *An information-theoretic approach to speech understanding*, Department of Computer Science and Software Engineering, Monash University, August 2003 and June 2004.

External dissertation examiner, Hongyan Jing, *Cut-and-paste text summarization*, Department of Computer Science, Columbia University, 2001.

External dissertation examiner, Maria Milosavljevic, *Maximising the coherence of descriptions via comparison*, Department of Computing, Macquarie University, March 1999.

External doctoral committee member, Hongyan Jing, Department of Computer Science, Columbia University, 1999.

External dissertation examiner, Jian Jiang, *Lexical semantic similarity and its application to business catalogue retrieval*, Department of Management Sciences, University of Waterloo, September 1998.

External dissertation examiner, Mohsen Rais-Ghasem, *An exemplar-based account of contextual effects*, School of Computer Science, Carleton University, June 1998.

External dissertation examiner, Alpha Kamchiu Luk, *A conceptual cohesion based approach to word sense disambiguation*, Department of Computing, Macquarie University, February 1997.

External dissertation examiner, David Traum, *A computational theory of grounding in conversation*, Department of Computer Science, University of Rochester, July 1994.

External dissertation examiner, Tomasz Strzalkowski, *A theory of stratified meaning representation for natural language*, School of Computing Science, Simon Fraser University, July 1986.

University and Community Service

2013–14

Chair, Admissions Committee, M.Sc.A.C. program.

2012–13 [*On sabbatical*]

2011–12

Member, Chair Search Committee, Department of Computer and Mathematical Sciences, UTSC.

Chair, Graduate Admissions Committee, Department of Computer Science [overseeing graduate admissions process].

Departmental representative, Library Advisory Committee, UTSC.

Member, University of Toronto Tribunal [several hearings per year].

Guest lecture (2 hours) on natural language processing, MHI 2001 (Master of Health Informatics program, Department of Health Policy, Management, and Evaluation), November 2011.

2010–11

Chair, Graduate Admissions and Graduate Visit Day Committee, Department of Computer Science [overseeing graduate admissions process and the organization of Grad Visit Day].

Guest lecture (2 hours) on summarization, CSC 401 (Natural Language Computing), Department of Computer Science, April 2011.

Guest lecture (2 hours) on artificial intelligence and the coming singularity, PSC D02 (Current Questions in Mathematics and Science, Department of Physical and Environmental Sciences, UTSC), March 2011.

Member, University of Toronto Tribunal [several hearings per year].

Panel chair, Ontario Graduate Scholarship Program, Province of Ontario.

Guest lecture (2 hours) on natural language processing, MHI 2001 (Master of Health Informatics program, Department of Health Policy, Management, and Evaluation), November 2010.

2009–10

Chair, Graduate Admissions and Graduate Visit Day Committee, Department of Computer Science [overseeing graduate admissions process and the organization of Grad Visit Day].

Member, University of Toronto Tribunal [several hearings per year].

Panel chair, Ontario Graduate Scholarship Program, Province of Ontario.

Guest lecture (2 hours) on natural language processing, MHI 2001 (Master of Health Informatics program, Department of Health Policy, Management, and Evaluation), November 2009.

Guest lecture (2 hours) on artificial intelligence and the coming singularity, PSC D01 (The Physical Sciences in Contemporary Society, Department of Physical and Environmental Sciences, UTSC), November 2009.

2008–09

Chair, Graduate Admissions and Graduate Visit Day Committee, Department of Computer Science [overseeing graduate admissions process and the organization of Grad Visit Day].

Member, University of Toronto Tribunal [several hearings per year].

Panel chair, Ontario Graduate Scholarship Program, Province of Ontario.

Local (Toronto) interviewer of undergraduate applicants to Brown University (Brown Alumni Schools Committee).

Member, University of Toronto Graduate Education Council [elected].

Member, Undergraduate Committee, Department of Computer Science, as representative of Department of Computing and Mathematical Sciences, UTSC.

Guest lecture (2 hours) on natural language processing, MHI 2001 (Master of Health Informatics program, Department of Health Policy, Management, and Evaluation), October 2008.

Guest lecture (2 hours) on artificial intelligence and the coming singularity, PSC D01 (The Physical Sciences in Contemporary Society, Department of Physical and Environmental Sciences, UTSC), November 2008.

2007–08

Local (Toronto) interviewer of undergraduate applicants to Brown University (Brown Alumni Schools Committee).

Panel chair, Ontario Graduate Scholarship Program, Province of Ontario.

Member, PTR / merit committee, Department of Computer and Mathematical Sciences, UTSC.

Member, Graduate admissions committee, Department of Computer Science.

Member, University of Toronto Graduate Education Council [elected].

2006–07

Member, Principal's Research Award Committee, UTSC

Member, Sponsorship Committee, North American Computational Linguistics Olympiad.

Local (Toronto) interviewer of undergraduate applicants to Brown University (Brown Alumni Schools Committee).

Panel member (reviewer), Ontario Graduate Scholarship applications, Province of Ontario.

Member, tenure committee for Sheila McIlraith, Department of Computer Science.

Member, editorial board for '@DCS', Department of Computer Science.

Member, University of Toronto Graduate Education Council [elected].
 Member, Graduate affairs committee, Department of Computer Science.
 Ad hoc member, Graduate admissions committee, Department of Computer Science.
 Member, Recruiting committee, Department of Computer and Mathematical Sciences, UTSC.

2005–06 [*On sabbatical*]

2004–05

Member, HCI recruiting committee, Department of Computer Science.
 Member, Awards Committee, Department of Computer Science.
 Member, teaching evaluation committee for François Pitt, Department of Computer Science.
 Member, tenure committee for Gerald Penn, Department of Computer Science.
 Member, Promotion to professor committee, Department of Computer and Mathematical Sciences, UTSC.
 Member, PTR / merit committee, Department of Computer and Mathematical Sciences, UTSC.

2003–04

Member, Lecturer Recruiting Committee, Department of Computer and Mathematical Sciences, UTSC.
 Member, Teaching evaluation committees for Renée Miller and for François Pitt, Department of Computer Science.
 Two guest lectures (80 mins each) on computational linguistics in JUP250Y (Introduction to Cognitive Science).
 Local (Toronto) interviewer of undergraduate applicants to Brown University (Brown Alumni Schools Committee).
 Member, Tenure and Promotion Committee, Department of Computer and Mathematical Sciences, UTSC.

2002–03

Member, Lecturer Recruiting Committee, Department of Computer Science.
 Local (Toronto) interviewer of undergraduate applicants to Brown University (Brown Alumni Schools Committee).
 Member, Faculty Support Staff Committee, Department of Computer Science.
 Member, Promotion Committee, Division of Mathematical Sciences, UTSC.
 Member, Teaching and Curriculum Committee, Division of Mathematical Sciences, UTSC.
 Member, UTSC Research Awards Committee.
 Chair, Third-year review committee for Gerald Penn, Department of Computer Science.

2001–02

Member, PTR / merit committee, Division of Physical Sciences, UTSC.

2000–01

Member, PTR committee, Division of Physical Sciences.
 Member, Lecturer recruiting committee, Division of Physical Sciences.
 Member, Tenure reading committee, Department of Computer Science.
 Member, Tenure teaching evaluation committee, Division of Physical Sciences.

[*Truncated at 2000*]

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