

Claire Cardie

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Research Interests

Natural language processing, machine learning of natural language

Education

1994	University of Massachusetts Ph.D., Computer Science Thesis title: "Domain-Specific Knowledge Acquisition for Conceptual Sentence Analysis", supervised by Professor Wendy Lehnert	Amherst, MA
1989	University of Massachusetts M.S., Computer Science	Amherst, MA
1982	Yale University B.S., Computer Science	New Haven, CT

Professional Experience

2006–pres	Cornell University <i>Professor, Department of Computer Science</i>	Ithaca, NY
2007–pres	Jodange <i>Co-Founder and Chief Scientist</i>	Yonkers, NY
2005–2009	Cornell University <i>Charles and Barbara Weiss Director, Information Science</i>	Ithaca, NY
2004–2005	Cornell University <i>Co-director, Information Science</i>	Ithaca, NY
2000–2006	Cornell University <i>Associate Professor, Department of Computer Science</i>	Ithaca, NY
1994—2000	Cornell University <i>Assistant Professor, Department of Computer Science</i>	Ithaca, NY

1987—1994	University of Massachusetts <i>Research Assistant to Professor Wendy Lehnert</i> Natural Language Processing Lab, Department of Computer Science	Amherst, MA
1991—1992	Smith College <i>Visiting Lecturer, Department of Computer Science</i>	Northampton, MA
1986—1987	Decision Sciences Consortium <i>Artificial Intelligence Programmer</i>	Falls Church, VA
1985—1986	Smart Systems Technology <i>Artificial Intelligence Programmer, Course Coordinator and Instructor</i>	Falls Church, VA
1982—1985	Intermetrics, Inc. <i>Programmer, Language Systems Division</i>	Cambridge, MA

Awards and Honors

Google Gift, 2005–2006

Xerox Foundation Gift, 2004–2005, 2005–2006

First Charles and Barbara Weiss Director of Information Science, Cornell University, 2005–2009

National Science Foundation Faculty Early CAREER Development Award, 1996–2000

Ralph S. Watts College of Engineering Excellence in Teaching Award, Cornell University, 1996

Lilly Teaching Fellow, Cornell University, 1996–1997

Best Written Paper Award, Ninth National Conference on Artificial Intelligence, Honorable Mention, 1991

Graduate Fellow, University of Massachusetts, 1993–1994

Massachusetts Regents Fellowship, University of Massachusetts, 1992–1993

Professional Activities

Member, *AAAI Conference Outreach Committee, 2009*

Councillor (elected), *Association for the Advancement of Artificial Intelligence (AAAI), 2008–2011*

Editor (with John Wilkerson), *Journal of Information Technology & Politics Special Volume: Text Annotation for Political Science, 2008*

Editorial board member (elected), *Machine Learning, 2004–2010*

Organizing Committee Member, Institute for Discrete Sciences Workshop on Associating Semantics with Graphs, Rutgers University, April 2007

Organizing Committee Member, First North American Computational Linguistics Olympiad (NAMCLO), Ithaca site, Cornell University, March 2007

Editorial Board Member, *Computational Linguistics*, 2007–2009

Editorial Board Member, *Journal of Information Technology & Politics*, 2006–2008

Program co-chair, COLING/ACL 2006, The Joint 21st International Conference on Computational Linguistics and 44th Annual Meeting of the Association for Computational Linguistics, with Pierre Isabelle, 2006

Board Member (elected), Executive Committee of the Association for Computational Linguistics, 2006–2008

Round Table Member, Judiciary Hearing on Electronic Rulemaking, U.S. House of Representatives, November 2005

Participant, first Google Faculty Summit, 2005

Secretary (elected), North American Association for Computational Linguistics, 2000–2001, 2002–2003

Secretary (elected), SIGNLL, Association for Computational Linguistics special interest group on Natural Language Learning, 1999–2001

Program co-chair, Fourth International Conference on Computational Natural Language Learning, with Walter Daelemans, 2000

Program chair, Second Conference on Empirical Methods in Natural Language Processing, 1997

Editor, special issue of *Machine Learning* on Natural Language Learning, 11(1–3), with Ray Mooney, 1999

Action editor, *Journal of Machine Learning Research*, 2000–2007

Associate editor, *Journal of Artificial Intelligence Research*, 2005–2007

Chair (with Lynette Hirshman), Nominating committee, North American Association for Computational Linguistics, 2006

Nominating committee member, North American Association for Computational Linguistics, 2004–2006

Editorial board member, *Journal of Artificial Intelligence Research*, 2004–2005

Executive board member, *SIGDAT*, Special Interest Group of the Association for Computational Linguistics for Linguistic Data and Corpus-based approaches to NLP, 1997–present

Organizing committee member, *AAAI Spring Symposium on Exploring Attitude and Affect in Text: Theories and Applications*, 2004

Editorial board member, *Machine Learning*, 1999–2001

Member, DARPA/NSF Question and Answering Roadmap Committee, 2001

Member, DARPA/NSF Summarization Roadmap Committee, 2001

Program Committees and Area Chairships

Discourse Anaphora and Anaphor Resolution Colloquia (DAARC 2009), 2009

Thirteenth Conference on Computational Natural Language Learning (CoNLL), 2009)

Joint Conference of the 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 (ACL-IJCNLP), 2009

International Conference on Weblogs and Social Media (ICWSM), 2009

EACL Workshop on Language Technology and Resources for Cultural Heritage, Social Sciences, Humanities, and Education (LaTeCH-SHELT&R 2009), 2009

24th National Conference on Artificial Intelligence (AAAI-2007) (senior program committee), 2007

International Conference on Weblogs and Social Media (ICWSM), 2007

Sentiment and Subjectivity in Text, Workshop at the Annual Meeting of the Association of Computational Linguistics, 2006

Computational Approaches to Analyzing Weblogs, *AAAI Spring Symposium*, 2006

Human Language Technology Conference/Conference on Empirical Methods in Natural Language Processing (HLT-EMNLP 2005), 2005

Ninth International Conference on Computational Natural Language Learning (CoNLL), 2005

42nd Annual Meeting of the Association for Computational Linguistics (ACL-04), 2004 (area chair)

Eighth International Conference on Computational Natural Language Learning (CoNLL), 2004

Conference on Empirical Methods in Natural Language Processing (EMNLP), 2004

Tenth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2004

ACL-2004 Workshop on Reference Resolution and Its Applications, 2004

Twentieth International Conference on Machine Learning (ICML), 2003

26th Annual International ACM SIGIR Conference, 2003

Conference on Empirical Methods in Natural Language Processing (EMNLP), 2003

IEEE International Conference on Data Mining (ICDM), 2003

Seventh International Conference on Computational Natural Language Learning (CoNLL), 2003

International Symposium on Reference Resolution and Its Applications to Question

Answering and Summarization, 2003
 Sixth International Conference on Computational Natural Language Learning (CoNLL),
 2002
 Mining Answers from Texts and Knowledge Bases, AAAI Spring Symposium, 2002
 24th Annual International ACM SIGIR Conference, 2001 (area chair)
 Eighteenth International Conference on Machine Learning (ICML), 2001
 Fifth International Conference on Computational Natural Language Learning (CoNLL),
 2001
 First International Conference on Knowledge Capture (K-CAP), 2001
 Seventeenth International Conference on Machine Learning (ICML), 2000 (area chair)
 First Meeting of the North American Chapter of the Association for Computational
 Linguistics (NAACL), 2000
 Fourth International Conference on Computational Natural Language Learning
 (CoNLL), 2000
 Question-Answering Session, 38th Annual Meeting of the Association for Computa-
 tional Linguistics, 2000
 Sixteenth International Conference on Machine Learning (ICML), 1999
 Topic Detection Session, 37th Annual Meeting of the Association for Computational
 Linguistics, 1999
 Third International Conference on Computational Natural Language Learning
 (CoNLL), 1999
 Fifteenth National Conference on Artificial Intelligence (AAAI), 1998
 36th Annual Meeting of the Association for Computational Linguistics and 17th
 International Conference on Computational Linguistics (ACL-COLING), 1998
 Fifteenth International Conference on Machine Learning (ICML), 1998
 Sixth Workshop on Very Large Corpora (WVLC), 1998
 AAAI-98 Workshop on Case-Based Reasoning Integrations, 1998
 Fourth International Colloquium on Grammatical Inference (CGI), 1998
 Third International Conference on New Methods in Language Processing
 (NeMLaP), 1998
 Second International Conference on Computational Natural Language Learning
 (CoNLL), 1998
 Fourteenth National Conference on Artificial Intelligence (AAAI), 1997
 Fourteenth International Conference on Machine Learning (ICML), 1997
 34th Annual Meeting of the Association for Computational Linguistics (ACL), 1996
 Thirteenth National Conference on Artificial Intelligence (AAAI), 1996
 Second International Colloquium on Grammatical Inference (ICGI), 1996
 Conference on Empirical Methods in Natural Language Processing (EMNLP), 1996
 International Conference on New Methods in Natural Language Processing
 (NeMLaP), 1996
 Twelfth International Conference on Machine Learning (ICML), 1995

Reviewer

Human Language Technologies: The 2009 Annual Conference of the North American
 Chapter
 of the Association for Computational Linguistics (HLT-NAACL), 2009

Twentieth International Conference on Computational Linguistics (COLING-04), 2004
41st Annual Meeting of the Association for Computational Linguistics (ACL), 2003
Seventeenth Annual Conference on Neural Information Processing Systems
(NIPS), 2003
17th International Joint Conference on Artificial Intelligence (IJCAI), 2001
39th Annual Meeting of the Association for Computational Linguistics (ACL), 2001
37th Annual Meeting of the Association for Computational Linguistics (ACL), 1999

Tutorials

Symbolic Machine Learning for Natural Language Processing, *37th Annual Meeting of the Association for Computational Linguistics*, with Ray Mooney, 1999

Journal Referee (recent)

Machine Learning; Computational Linguistics; Journal of Artificial Intelligence Research (JAIR); Journal of Experimental and Theoretical Artificial Intelligence (JETAI); Neural Information Processing (NIPS); Cognitive Systems

Funding Agency Reviewing

National Science Foundation Review Panels

CISE: 2009

Human-Computer Interaction (formerly Interactive Systems): 2003, 2001, 2000, 1999, 1998, 1996

Knowledge and Cognitive Systems (IRI): 2000

Knowledge Models and Cognitive Systems (IRI): 1995

National Science Foundation Proposal Reviews

CISE: 2008

CRI: 2008

Knowledge and Distributed Intelligence Program: 1999

Database Activities in the Biological Sciences (Special Projects Program): 1997

Hercules Foundation, Large-Scale Research Infrastructure Program, Belgium, 2008

Natural Sciences and Engineering Research Council of Canada (NSERC) Proposal Reviews

Information, Communication, and Manufacturing Division: 2002

Swiss Natural Science Foundation Proposal Reviews

Computer Science / AI Division: 2002

ARO Proposal Reviews

Mathematical and Computer Sciences Division: 1998

Corpora

OpQA Opinion Question-Answering Corpus.
Part of the MPQA corpus.

Publications

Journal Articles

Guest Editors' Introduction: Text Annotation for Political Science Research.

Claire Cardie and John Wilkerson.

Journal of Information Technology & Politics, 5:1, 2008.

Annotating Expressions of Opinions and Emotions in Language.

Janyce Wiebe, Theresa Wilson, Claire Cardie.

Language Resources and Evaluation formerly *Computers and the Humanities*, 39:2-3, 165–210, 2005.

A Cognitive Bias Approach to Feature Selection and Weighting for Case-Based Learners.

Claire Cardie.

Machine Learning, 41, 81–116, 2000.

Using Clustering and SuperConcepts within SMART: TREC 6.

C. Buckley, M. Mitra, J. Walz, and C. Cardie.

Information Processing and Management, 36(1), 109–131, 2000.

Integrating Case-Based Learning and Cognitive Biases for Machine Learning of Natural Language.

Claire Cardie.

Journal of Experimental and Theoretical Artificial Intelligence, 11, 297–337, 1999.

Guest Editors' Introduction: Machine Learning and Natural Language.

Claire Cardie and Raymond Mooney.

Machine Learning, 11:(1–3), 1–5, 1999.

Empirical Methods in Information Extraction.

Claire Cardie.

AI Magazine, 18(4), 65–79, 1997. (invited survey)

Evaluating an Information Extraction System.

W. Lehnert, C. Cardie, D. Fisher, J. McCarthy, E. Riloff, and S. Soderland.

Journal of Integrated Computer-Aided Engineering, 1(6), 1994.

Ph.D. Thesis

Domain-Specific Knowledge Acquisition for Conceptual Sentence Analysis.

Claire Cardie.

Available as University of Massachusetts, CMPSCI Technical Report 94–74, 1994.

Book Chapters

Evaluating an Opinion Annotation Scheme Using a New Multi-Perspective Question and Answer Corpus.

Veselin Stoyanov, Claire Cardie, Janyce Wiebe, and Diane Litman.

In *Computing Attitude and Affect in Text: Theory and Practice*, James G. Shanahan, Yan Qu, Janyce Wiebe (Eds.), Springer, 2005.

Low-Level Annotations and Summary Representations of Opinions for Multi-Perspective Question Answering.

Claire Cardie, Janyce Wiebe, Theresa Wilson, and Diane Litman.

In *New Directions in Question Answering*, Mark Maybury (editor), AAAI Press/MIT Press, 2004.

Embedded Machine Learning Systems for Natural Language Processing: A General Framework.

Claire Cardie.

In *Connectionist, Statistical and Symbolic Approaches to Learning for Natural Language Processing*, S. Wermter, E. Riloff, and G. Scheler, eds., 315–328, Springer Verlag, Berlin, 1996.

Refereed Conference Publications

Adapting a Polarity Lexicon Using Integer Linear Programming for Domain-Specific Sentiment Classification.

Yejin Choi and Claire Cardie.

Conference on Empirical Methods in Natural Language Processing (EMNLP 2009), 2009.

Conundrums in Noun Phrase Coreference Resolution: Making Sense of the State-of-the-Art.

Veselin Stoyanov, Nathan Gilbert, Claire Cardie and Ellen Riloff.

Joint Conference of the 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 (ACL-IJCNLP 2009), 2009.

Learning with Compositional Semantics as Structural Inference for Subsentential Sentiment Analysis.

Yejin Choi, Claire Cardie.

Conference on Empirical Methods in Natural Language Processing (EMNLP). 2008.

The power of negative thinking: Exploiting Label Disagreement in the Min-cut Classification Framework.

Mohit Bansal, Claire Cardie and Lillian Lee.

Conference on Computational Linguistics (COLING 2008): Companion volume: Posters, 2008.

Topic Identification for Fine-Grained Opinion Analysis.

Veselin Stoyanov, Claire Cardie.

Conference on Computational Linguistics (COLING 2008), 2008.

- A Study in Rule-Specific Issue Categorization for e-Rulemaking.
Claire Cardie, Cynthia Farina, Adil Aijaz, Matt Rawding, Stephen Purpura.
9th Annual International Conference on Digital Government Research. Montreal, Canada, 2008.
- Active Learning for e-Rulemaking: Public Comment Categorization.
Stephen Purpura, Claire Cardie, Jesse Simons.
9th Annual International Conference on Digital Government Research. Montreal, Canada, 2008.
- Annotating Topics of Opinions.
Veselin Stoyanov and Claire Cardie.
Sixth International Conference on Language Resources and Evaluation (LREC 2008). Marrakech, Morocco, 2008.
- An eRulemaking Corpus: Identifying Substantive Issues in Public Comments.
Claire Cardie, Cynthia Farina, Adil Aijaz, Matt Rawding, Stephen Purpura.
Sixth International Conference on Language Resources and Evaluation (LREC 2008). Marrakech, Morocco, 2008.
- Cornell System Description for the NTCIR-6 Opinion Task.
Eric Breck, Yejin Choi, Veselin Stoyanov, and Claire Cardie.
The 6th NTCIR Workshop Meeting. Tokyo, Japan, 2007.
- Structured Local Training and Biased Potential Functions for Conditional Random Fields with Application to Coreference Resolution.
Yejin Choi and Claire Cardie.
NAACL Human Language Technology Conference (NAACL-HLT), 2007.
- Identifying Expressions of Opinion in Context.
Eric Breck, Yejin Choi, and Claire Cardie.
Twentieth International Joint Conference on Artificial Intelligence (IJCAI), 2007.
- Joint Extraction of Entities and Relations for Opinion Recognition.
Yejin Choi, Eric Breck, and Claire Cardie.
Proceedings of Empirical Methods in Natural Language Processing (EMNLP), 2006.
- Partially Supervised Coreference Resolution for Opinion Summarization through Structured Rule Learning.
Veselin Stoyanov and Claire Cardie.
Proceedings of Empirical Methods in Natural Language Processing (EMNLP), 2006.
- Toward Opinion Summarization: Linking the Sources.
Veselin Stoyanov and Claire Cardie.
Workshop on Sentiment and Subjectivity in Text, COLING/ACL, 2006.
- Using Natural Language Processing to Improve E-rulemaking.
Claire Cardie, Cynthia Farina, Thomas Bruce, Erica Wagner.

Proceedings of the 7th Annual International Conference on Digital Government Research, 2006.

Better Inputs for Better Outcomes: Using the Interface to Improve e-Rulemaking.

Cynthia Farina, Claire Cardie, Thomas Bruce, Erica Wagner.

Workshop on eRulemaking at the Crossroads, 7th Annual International Conference on Digital Government Research, 2006.

Identifying Sources of Opinions with Conditional Random Fields and Extraction Patterns.

Yejin Choi, Claire Cardie, Ellen Riloff, and Siddharth Patwardhan.

Human Language Technology Conference/Conference on Empirical Methods in Natural Language Processing (HLT-EMNLP 2005), 2005.

Multi-Perspective Question Answering Using the OpQA Corpus.

Ves Stoyanov, Claire Cardie, and Janyce Wiebe.

Human Language Technology Conference/Conference on Empirical Methods in Natural Language Processing (HLT-EMNLP 2005), 2005.

Optimizing to Arbitrary NLP Metrics using Ensemble Selection.

Art Munson, Claire Cardie, and Rich Caruana.

Human Language Technology Conference/Conference on Empirical Methods in Natural Language Processing (HLT-EMNLP 2005), 2005. (full paper with poster presentation)

Playing the Telephone Game: Determining the Hierarchical Structure of Perspective and Speech Expressions.

Eric Breck and Claire Cardie.

Twentieth International Conference on Computational Linguistics (COLING-04), 2004.

Weakly Supervised Natural Language Learning Without Redundant Views.

Vincent Ng and Claire Cardie.

Human Language Technology Conference of the North American Chapter of the Association for Computational Linguistics (HLT-NAACL 2003), 173–180, Association for Computational Linguistics, 2003.

Bootstrapping Coreference Classifiers with Multiple Machine Learning Algorithms.

Vincent Ng and Claire Cardie.

Proceedings of the 2003 Conference on Empirical Methods in Natural Language Processing (EMNLP-2003), Association for Computational Linguistics, 2003.

Improving Machine Learning Approaches to Coreference Resolution.

Vincent Ng and Claire Cardie.

Proceedings of the 40th Annual Meeting of the Association for Computational Linguistics, Association for Computational Linguistics, 2002.

Identifying Anaphoric and Non-Anaphoric Noun Phrases to Improve Coreference Resolution.

Vincent Ng and Claire Cardie.

Proceedings of the 19th International Conference on Computational Linguistics (COLING-2002), 2002.

Combining Sample Selection and Error-Driven Pruning for Machine Learning of Coreference Rules.

Vincent Ng and Claire Cardie.

Proceedings of the 2002 Conference on Empirical Methods in Natural Language Processing, Association for Computational Linguistics, 2002.

Detecting Discrepancies in Numerical Estimates Using Multidocument Hypertext Summaries.

Michael White, Claire Cardie, Vincent Ng, and Daryl McCullough.

Proceedings of the Second International Conference on Human Language Technology Research (HLT-02), 2002.

Limitations of Co-Training for Natural Language Learning from Large Datasets.

David Pierce and Claire Cardie.

Proceedings of the 2001 Conference on Empirical Methods in Natural Language Processing (EMNLP-2001), Association for Computational Linguistics, 2001.

Constrained K-means Clustering with Background Knowledge.

Kiri Wagstaff, Claire Cardie, Seth Rogers, and Stefan Schroedl.

Proceedings of the Eighteenth International Conference on Machine Learning, Morgan Kaufmann, 2001.

Multi-document Summarization via Information Extraction.

Michael White, Tanya Korelsky; Claire Cardie, Vincent Ng, David Pierce, and Kiri Wagstaff.

Proceedings of the First International Conference on Human Language Technology Research (HLT-01), 2001.

Detecting Discrepancies and Improving Intelligibility: Two Preliminary Evaluations of RIPTIDES.

Michael White, Claire Cardie, Vincent Ng, Kiri Wagstaff, and Daryl McCullough.

2001 Document Understanding Conference (DUC-01), 2001.

Clustering with Instance-Level Constraints.

Kiri Wagstaff and Claire Cardie.

Proceedings of the Seventeenth International Conference on Machine Learning, 1103–1110, Morgan Kaufmann, 2000.

Examining the Role of Statistical and Linguistic Knowledge Sources in a General-Knowledge Question-Answering System.

Claire Cardie, Vincent Ng, David Pierce, and Chris Buckley.

Proceedings of the Sixth Applied Natural Language Processing Conference (ANLP-2000), 180–187, Association for Computational Linguistics / Morgan Kaufmann, 2000.

The Smart/Empire TIPSTER IR System.

C. Buckley, C. Cardie, S. Mardis, M. Mitra, D. Pierce, K. Wagstaff, and J. Walz.
TIPSTER Phase III Proceedings, 107–121, Morgan Kaufmann, 1999.

Noun Phrase Coreference as Clustering.

Claire Cardie and Kiri Wagstaff.

Proceedings of the Joint Conference on Empirical Methods in Natural Language Processing and Very Large Corpora, 82–89, Association for Computational Linguistics, 1999.

Combining Error-Driven Pruning and Classification for Partial Parsing.

Claire Cardie, Scott Mardis, and David Pierce.

Proceedings of the Sixteenth International Conference on Machine Learning, 87–96, Morgan Kaufmann, 1999.

The Role of Lexicalization and Pruning for Base Noun Phrase Grammars.

Claire Cardie and David Pierce.

Proceedings of the Sixteenth National Conference on Artificial Intelligence, 423–430, AAAI Press / MIT Press, 1999.

Error-Driven Pruning of Treebank Grammars for Base Noun Phrase Identification.

Claire Cardie and David Pierce.

Proceedings of the Annual Conference of the Association for Computational Linguistics and COLING-98, 218–224, Association for Computational Linguistics, 1998.

SMART High Precision: TREC 7.

Chris Buckley, Mandar Mitra, Janet Walz, and Claire Cardie.

Proceedings of the Seventh Text REtrieval Conference (TREC-7), NIST Special Publication 500–242, 285–298, 1998.

Using Clustering and SuperConcepts within SMART: TREC 6.

Chris Buckley, Mandar Mitra, Janet Walz, and Claire Cardie.

Proceedings of the Sixth Text REtrieval Conference (TREC-6), NIST Special Publication 500–240, 107–124, 1998.

Improving Minority Class Prediction Using Case-Specific Feature Weights.

Claire Cardie and Nicholas Howe.

Proceedings of the Fourteenth International Conference on Machine Learning, 57–65, Morgan Kaufmann, 1997.

(Paper selected for presentation at a joint plenary session with the *Tenth Annual Conference on Computational Learning Theory (COLT 1997)*.)

Examining Locally Varying Weights for Nearest Neighbor Algorithms.

Nicholas Howe and Claire Cardie.

Proceedings of the Second International Conference on Case-Based Reasoning, 455–466, Springer, 1997.

An Analysis of Statistical and Syntactic Phrases.

Mandar Mitra, Chris Buckley, Claire Cardie, and Amit Singhal.

5TH RIAO Conference, *Computer-Assisted Information Searching on the Internet*, 200–214, 1997.

Automating Feature Set Selection for Case-Based Learning of Linguistic Knowledge.
Claire Cardie.

Proceedings of the Conference on Empirical Methods in Natural Language Processing, 113–126, Association for Computational Linguistics, 1996.

A Case-Based Approach to Knowledge Acquisition for Domain-Specific Sentence Analysis.

Claire Cardie.

Proceedings of the Eleventh National Conference on Artificial Intelligence, 798–803, AAAI Press / MIT Press, 1993.

University of Massachusetts/Hughes: Description of the CIRCUS System as Used for MUC-5.

W. Lehnert, J. McCarthy, S. Soderland, E. Riloff, C. Cardie, J. Peterson, and F. Feng; C. Dolan, and S. Goldman.

Proceedings of the Fifth Message Understanding Conference (MUC-5), 277–291, Morgan Kaufmann, 1993.

University of Massachusetts/Hughes: Description of the CIRCUS System as Used for TIPSTER Text Extraction.

W. Lehnert, J. McCarthy, S. Soderland, E. Riloff, C. Cardie, J. Peterson, and F. Feng; C. Dolan, and S. Goldman.

Proceedings of the TIPSTER Text Program (Phase I), 241–256, Morgan Kaufmann, 1993.

Using Decision Trees to Improve Case-Based Learning.

Claire Cardie.

Proceedings of the Tenth International Conference on Machine Learning, 25–32, Morgan Kaufmann, 1993.

Corpus-Based Acquisition of Relative Pronoun Disambiguation Heuristics.

Claire Cardie.

Proceedings of the 30th Annual Conference of the Association for Computational Linguistics, 216–223, Association for Computational Linguistics, 1992.

Learning to Disambiguate Relative Pronouns.

Claire Cardie.

Proceedings of the Tenth National Conference on Artificial Intelligence, 38–43, AAAI Press / MIT Press, 1992.

Using Cognitive Biases to Guide Feature Set Selection.

Claire Cardie.

Proceedings of the Fourteenth Annual Conference of the Cognitive Science Society, 743–748, Lawrence Erlbaum Associates, 1992. A very similar version of the paper also appeared in *Working Notes of the AAAI Workshop on Constraining Learning with Prior Knowledge*, 11–18, AAAI Press, 1992.

University of Massachusetts: Description of the CIRCUS System as Used for MUC-4.
W. Lehnert, C. Cardie, D. Fisher, J. McCarthy, E. Riloff, and S. Soderland.
Proceedings of the Fourth Message Understanding Conference (MUC-4), 282–288, Morgan Kaufmann, 1992.

University of Massachusetts: MUC-4 Test Results and Analysis.
W. Lehnert, C. Cardie, D. Fisher, J. McCarthy, E. Riloff, and S. Soderland.
Proceedings of the Fourth Message Understanding Conference (MUC-4), 151–163, Morgan Kaufmann, 1992.

A Cognitively Plausible Approach to Understanding Complicated Syntax.
Claire Cardie and Wendy Lehnert.
Proceedings of the Ninth National Conference on Artificial Intelligence, 117–124, AAAI Press / MIT Press, 1991.

University of Massachusetts: Description of the CIRCUS System as Used for MUC-3.
W. Lehnert, C. Cardie, D. Fisher, E. Riloff, and R. Williams.
Proceedings of the Third Message Understanding Conference (MUC-3), 116–119, Morgan Kaufmann, 1991.

University of Massachusetts: MUC-3 Test Results and Analysis.
W. Lehnert, C. Cardie, D. Fisher, E. Riloff, and R. Williams.
Proceedings of the Third Message Understanding Conference (MUC-3), 223–233, Morgan Kaufmann, 1991.

Analyzing Research Papers Using Citation Sentences.
Wendy Lehnert, Claire Cardie, and Ellen Riloff.
Proceedings of the Twelfth Annual Conference of the Cognitive Science Society, 511–518, Lawrence Erlbaum Associates, 1990.

Other Publications

Using Natural Language Processing to Improve E-rulemaking.
Claire Cardie, Cynthia Farina, Thomas Bruce, Erica Wagner.
Proceedings of the 7th Annual International Conference on Digital Government Research, May 21–24, 2006.

Better Inputs for Better Outcomes: Using the Interface to Improve e-Rulemaking.
Cynthia Farina, Claire Cardie, Thomas Bruce, Erica Wagner. *Proceedings of the 7th Annual International Conference on Digital Government Research*, May 21, 2006.

Toward Opinion Summarization: Linking the Sources.
Veselin Stoyanov and Claire Cardie.
Sentiment and Subjectivity in Text, Workshop at the Annual Meeting of the Association of Computational Linguistics, 2006. **(refereed)**

Machine Learning for Natural Language Processing (and Vice Versa?).
Claire Cardie.

16th European Conference on Machine Learning and 9th European Conference on Principles and Practice of Knowledge Discovery in Databases, Lecture Notes in AI, Springer, 2005.
(invited plenary talk)

OpinionFinder: A System for Subjectivity Analysis.
Theresa Wilson, Paul Hoffmann, Swapna Somasundaran, Jason Kessler, Janyce Wiebe;
Yejin Choi, Claire Cardie; Ellen Riloff and Siddharth Patwardhan.
Proceedings of HLT/EMNLP 2005 Interactive Demonstrations, 2005. **(refereed demo presentation)**

Graduate Study in Information Science at Cornell University.
Lori Lorigo, Claire Cardie, Geri Gay, and Phoebe Sengers.
CHI 2005 Workshop on Graduate Education in Human-Computer Interaction, Portland, OR, 2005. **(education)**

Evaluating an Opinion Annotation Scheme Using a New Multi-Perspective Question and Answer Corpus.
Veselin Stoyanov, Claire Cardie, Janyce Wiebe, and Diane Litman.
2004 AAAI Spring Symposium on Exploring Attitude and Affect in Text, AAAI Press, 2004.
(refereed)

Combining Low-Level and Summary Representations of Opinions for Multi-Perspective Question Answering.
Claire Cardie, Janyce Wiebe, Theresa Wilson, and Diane Litman.
2003 AAAI Spring Symposium on New Directions in Question Answering, 20–27, AAAI Press, 2003. **(refereed)**

Recognizing and Organizing Opinions Expressed in the World Press.
Janyce Wiebe, Eric Breck, Chris Buckley, Claire Cardie, Paul Davis, Bruce Fraser, Diane Litman, David Pierce, Ellen Riloff, Theresa Wilson, David Day, Mark Maybury.
2003 AAAI Spring Symposium on New Directions in Question Answering, 12–19, AAAI Press, 2003. **(refereed)**

ARDA/NRRC Summer Workshop on Multiple-Perspective Question Answering: Final Report.
Janyce Wiebe, Eric Breck, Chris Buckley, Claire Cardie, Paul Davis, Bruce Fraser, Diane Litman, David Pierce, Ellen Riloff, Theresa Wilson.
2002. **(government agency publication)**

Selecting Sentences for Multidocument Summaries Using Randomized Local Search.
Michael White and Claire Cardie.
ACL 2002 Workshop on Automatic Summarization, 2002. **(refereed)**

Issues, Tasks and Program Structures to Roadmap Research in Question and Answering (Q&A).
John Burger, Claire Cardie, Vinay Chaudhri, Robert Gaizauskas, Sanda Harabagiu, David Israel, Christian Jacquemin, Chin-Yew Lin, Steve Maiorano, George Miller, Dan Moldovan, Bill Ogden, John Prager, Ellen Riloff, Amit Singhal, Rohini Srihari, Tomek

Strzalkowski, Ellen Voorhees, Ralph Weischedel.
2001. **(DARPA/NSF committee publication)**

User-Oriented Machine Learning Strategies for Information Extraction: Putting the Human Back in the Loop.

David Pierce and Claire Cardie.

Working Notes of the IJCAI-2001 Workshop on Adaptive Text Extraction and Mining, pages 80-81, 2001. **(refereed)**

Towards Translingual Information Access Using Portable Information Extraction.

M. White, C. Cardie, C. Han, N. Kim, B. Lavoie, M. Palmer, O. Rambow, J. Yoon.

Proceedings of the ANLP/NAACL Workshop on Embedded Machine Translation Systems, 31-37, 2000. **(refereed)**

Weighting Unusual Feature Types.

Nicholas Howe and Claire Cardie.

Cornell CS Technical Report: TR99-1735, Ithaca, NY, 1999.

Proposal for an Interactive Environment for Information Extraction.

Claire Cardie and David Pierce.

Cornell CS Technical Report: TR98-1702, Ithaca, NY, 1998.

Proposal for a Framework for the High-Precision Identification of Linguistic Relationships.

Claire Cardie and Scott Mardis.

Cornell CS Technical Report: TR97-1653, Ithaca, NY, 1997.

Word Sense Disambiguation Using Numerical Constraint Satisfaction.

Julia Komissarchik and Claire Cardie.

Cornell CS Technical Report: TR97-1621, Ithaca, NY, 1997.

Embedded Machine Learning Systems for Natural Language Processing: A General Framework.

Claire Cardie.

Workshop on New Approaches to Learning for Natural Language Processing, 14th International Joint Conference on Artificial Intelligence (IJCAI-95), 119-126, AAAI Press, 1995. A very similar version also appeared as a book chapter. **(refereed)**

Understanding Empty Category Constructions in a Semantically-Oriented Parser.

Claire Cardie.

Sixth Annual CUNY Sentence Processing Conference, 29, Amherst, MA, 1993.

Learning Syntax Within a Semantic Parser.

Claire Cardie and Wendy Lehnert.

Proceedings of AAAI Spring Symposium on Machine Learning of Natural Language and Ontology, 27-31, DFKI: Kaiserslautern FRG, 1991. **(refereed)**

The CIRCUS System as Used in MUC-3.

W. Lehnert, R. Williams, C. Cardie, D. Fisher, and E. Riloff.

COINS Technical Report 91-59, Amherst, MA, 1990.

Software Tools for Knowledge Elicitation: A Review and Analysis.
Claire Cardie and Craig Will.
Smart Systems Technology Technical Report, Falls Church, VA, 1987.

Understanding Texts Using Integrated Knowledge Sources.
John Leddo and Claire Cardie.
Decision Sciences Consortium Technical Report, Falls Church, VA, 1987.

Invited Talks

What Were They Thinking? Finding and Extracting Opinions in the News. Computer Science Colloquium Series, Cornell University, November, 2009.

--- Center of Language Sciences (CLS), University of Rochester, November, 2008.

Finding and Extracting Opinions on the Web, Evergreen College, October 2008.

'In my opinion ...': Extracting Content from Subjective Language, Invited Plenary Talk, Les Conférences TALN (Traitement Automatique des Langues Naturelles) et JEP (Journées d'Études sur la Parole), Avignon, France, June 2008.

An eRulemaking Corpus: Identifying Substantive Issues in Public Comments, Sixth International Conference on Language Resources and Evaluation (LREC 2008), Marrakech, Morocco, June 2008.

Topic Identification for Fine-Grained Opinion Analysis, Université d'Avignon, France, May 2008.

The Jodange 'Top of Mind' Service, with Larry Levy, DEMO 08, Palm Desert, January 2008.

Automatic Analysis of Subjective Language, Laboratoire Parole et Langage, Université de Provence, France, October 2007.

Opinions in Text, Laboratoire Parole et Langage, Université de Provence, France, August 2007.

Using Recent Advances in Machine Learning for Opinion Summarization, ONR Workshop on Recent Advances in Mathematics and Information Sciences for Analysis and Understanding of Massive and Diverse Sources of Data, DIMACS, Rutgers University, May 2007.

Constructing Graph-Based Opinion Summaries from Text, Institute for Discrete Sciences Workshop on Associating Semantics with Graphs, DIMACS/DyDAn Center, Rutgers University, April, 2007.

Identifying Opinions in Text, Boston Cornell Club Boston, March, 2007.

Analyzing Sentiment in Text, Fidelity Cornell Alumni Network, Boston, March, 2007.

A Sentimental Journey, Invited Keynote Address, 21st International Conference on the Computer Processing of Oriental Languages, Singapore, December 2006.

---City University of Hong Kong, Hong Kong, December 2006.

Looking for Solutions, National Science Foundation Workshop on Coding Across the Disciplines: A Project-Based Workshop on Manual Text Annotation Techniques, University of Pittsburgh, November 2006.

New Directions in Information Extraction, Cornell Engineering Visit, Tsinghua University, Beijing, China, November 2005.

Machine Learning for Natural Language Processing (and Vice Versa?), Invited Plenary Talk, 16th European Conference on Machine Learning and 9th European Conference on Principles and Practice of Knowledge Discovery in Databases, Porto, Portugal, October 2005.

Noun Phrase Coreference Resolution for Information Extraction: Supervised and Weakly Supervised Methods, Keynote, Belgium and The Netherlands Workshop on Information Extraction, University of Antwerp, March 2005.

Machine Learning for Noun Phrase Coreference Resolution

---University of Saarland, March 2005.

---Syracuse University, School of Information Studies, June 2004.

---IBM Watson Research Center, June 2004.

---General Motors, Detroit Michigan, June 2004.

---University of Washington, Department of Computer Science Colloquium, January 2004.

---Xerox Research and Development Center, Webster NY, January 2004.

---SUNY Buffalo, Department of Computer Science Colloquium, December 2003.

---University of Pennsylvania Distinguished Lecture Series, December 2003.

Noun Phrase Coreference Resolution, Cornell Information Science Seminar, Cornell University, October 2003.

Research Directions in Statistical Natural Language Processing, Intelligent Information Systems Institute, Cornell University, June 2003.

Natural Language Technologies for Text Mining, Industrial and Labor Relations Statistics Seminar, Cornell University, April 2003.

Natural Language Technologies for E-Rulemaking, NSF Workshop on E-Rulemaking: New Directions for Technology and Regulation, John F. Kennedy School of Government, Harvard University, January 2003.

Successes, Failures, and New Directions in Natural Language Learning, Plenary Talk, International Conference on Machine Learning, Williams College, July 2001.

Machine Learning for Information Extraction from Unrestricted Text, Alan J. Perlis Symposium, Yale University, April 2001.

Noun Phrase Coreference for Information Extraction, University of Maryland, April 2001.

Improving a Machine Learning Approach to Noun Phrase Coreference Resolution, University of Texas at Austin, February 2001.

Overview of Cornell University Projects in Natural Language Understanding, America On-Line, December 2000.

Noun Phrase Coreference for Information Extraction, University of Montreal, March 2000.

A Clustering Approach to Noun Phrase Coreference, Williams College, December 1999.

Noun Phrase Coreference for Information Extraction and Text Summarization, Washington University, November 1999.

Noun Phrase Coreference for Information Extraction, Purdue University, October 1999.

New Directions in Machine Learning for Information Extraction, Invited talk, Workshop on Machine Learning for Information Extraction, Sixteenth National Conference on Artificial Intelligence, July 1999.

Machine Learning for Information Extraction, University of Ottawa, February 1999.

A Corpus-Based Method for Finding Base Noun Phrases, Johns Hopkins University, April 1998.

Combining Multiple Knowledge Sources for NLP via Symbolic Machine Learning Techniques, Invited Workshop on Interfacing Models of Language, Neural Information Processing Systems Conference, December 1997.

Case-Based Learning of Natural Language, University of Rochester, November 1997.

Improving Minority Class Prediction Using Case-Specific Feature Weights, University of Utah, October 1997.

Knowledge Acquisition for Natural Language Understanding Using Machine Learning Techniques, Harvard University, April 1997.

The Use of Cognitive Biases in Case-Based Learning of Linguistic Knowledge, Invited Workshop on Computational Models of Human Syntactic Processing, Netherlands Institute for Advanced Study (NIAS), Wassenaar, The Netherlands, June 1996.

Lexical Knowledge Acquisition Using Machine Learning Techniques, SUNY Binghamton, September 1995.

Machine Learning and Natural Language Processing, European Commission-sponsored Workshop on Machine Learning of Natural Language and Speech, University of Amsterdam, December 1994. (I was the only speaker invited from outside Europe.)

Domain-Specific Knowledge Acquisition for Conceptual Sentence Analysis

- ...Southern Methodist University, January 1994.
- ...Washington and Lee University, January 1994.
- ...Boston College, February 1994.
- ...Johns Hopkins University, February 1994.
- ...North Carolina State, February 1994.
- ...Washington University, February 1994.
- ...Carnegie Mellon University, March 1994.
- ...Massachusetts Institute of Technology, March 1994.
- ...Northeastern University, March 1994.
- ...University of Michigan, March 1994.
- ...Villanova University, March 1994.
- ...Cornell University, April 1994.
- ...Middlebury College, April 1994.
- ...Smith College, April 1994.

Summary of Funding

University Affiliate Center, Department of Homeland Security, “Extracting Events and Opinions from Text”, 2007–2010, \$2,400,000 (with Janyce Wiebe, University of Pittsburgh, and Ellen Riloff, University of Utah; Cornell portion \$800,000)

National Science Foundation, “Dynamics of Deception (HSD), 2006–2009, \$680,000 (with Jeffrey Hancock, Department of Communication; awarded but not yet funded)

Google Gift, 2005–2006, \$80,000

National Science Foundation, “Natural Language Processing Support for eRulemaking” (IIS-0535099), 2005–2008, \$750,000 (with Cynthia Farina, Cornell Law School)

Xerox Foundation Gift, 2005–2006, \$20,000

Xerox Foundation Gift, 2004–2005, \$20,000

ARDA AQUAINT Phase II, “Opinions in Question Answering”, 2004–2006, \$463,500 (Cornell portion; with Janyce Wiebe, University of Pittsburgh, and Ellen Riloff, University of Utah)

National Science Foundation, “Reducing the Corpus Annotation Bottleneck for Natural Language Learning” (IIS-0208028), 2002–2005, \$500,000

ARDA, Mitre's Northeast Regional Research Center, "Multi-Perspective Question Answering Workshop", 2002–2003, \$62,000

National Science Foundation, "ITR/IM: The Construction and Analysis of Information Networks" (IIS-0081334), 2000–2003, \$450,000 (with Kleinberg, Lee, Selman, Strogatz)

National Science Foundation, "POWRE–Integrating Natural Language Processing and Information Retrieval for Intelligent Text-Processing" (EIA-0074896), 2000–2001, \$68,695

DARPA, *TIDES Text-Processing Initiative*, "Rapidly Portable Translingual Information Extraction and Interactive Multidocument Summarization", 2000–2002, \$1,300,000 (with Michael White of Cogentex Inc., subcontractor)

National Science Foundation, *Faculty Early CAREER Development Award*, "Knowledge Acquisition for Natural Language Understanding" (IRI-9624639), 1996–2000, \$200,000

DARPA, *TIPSTER Text-Processing Initiative*, "Improving End-User Efficiency in a TIP-STER-Compliant Information Retrieval System", 1997–1999, \$600,000 (with Chris Buckley of SaBIR Research, subcontractor)

National Science Foundation, *Research and Education for Undergraduates*, 1997, \$12,500

Lilly Foundation, *Lilly Teaching Fellowship*, 1996–1997, \$10,000

National Science Foundation, *Graduate Research Traineeships*, "Computational Aspects of Cognitive Science", 1995–1999, \$562,500. (I became a PI in 1996; with Barbara Lust, Human Development)

Doctoral Dissertation Committee Chair

Myle Ott, Department of Computer Science

Ainur Stephen Purpura, Information Science Program

Yejin Choi, Department of Computer Science

Veselin Stoyanov, Department of Computer Science

Eric Breck, Department of Computer Science, graduated 2008

Hui Tan, Department of Computer Science, masters 2006

Vincent Ng, Department of Computer Science, graduated 2004

David Pierce, Department of Computer Science, graduated 2003

Kiri Wagstaff, Department of Computer Science, graduated 2002

Scott Mardis, Department of Computer Science, graduated 2000

Mandar Mitra, Department of Computer Science, graduated 1999

Amit Singhal, Department of Computer Science (for G. Salton), graduated 1997

Doctoral Dissertation Committee External Member

Yun Niu, University of Toronto
Jingying Chen, University of Pennsylvania
Elena Filatova, Columbia University
Veronique Hoste, University of Antwerp, graduated 2005
Xiaoyun Wu, SUNY Buffalo, graduated 2004
Einat Amitay, Macquarie University, Australia, external reviewer, graduated 2001
Roman Yangarber, New York University, graduated 2000
Lluís Marquez, Universitat Politècnica de Catalunya, external referee, graduated 1998
Cynthia Thompson, University of Texas at Austin, graduated 1998

Cornell Doctoral Dissertation Committees

Kan Li, Computer Science, Member
Vladimir Barash, Information Science, Member
Art Munson, Computer Science, Member
Dave Crandall, Computer Science, Member, graduated 2007
Bo Pang, Computer Science, Member, graduated 2006
Amanda Holland-Minkley, Computer Science, Member, graduated 2004
Alin Dobra, Computer Science, Member, graduated 2003
Jiahong Yuan, Linguistics, Member
Eric Aaron, Computer Science, Member, graduated 2000
Nicholas Howe, Computer Science, Member, graduate 2001
Yi-Cheng Huang, Computer Science, Member, graduated 2002
Yonghong Mao, Linguistics, Member, graduated (M.A.) 1999
Shamitha Somashekar, Human Development, Member, graduated 1999
Wee-Liang Heng, Computer Science, Member, graduated 1998
Chris Buckley, Computer Science, Member, graduated 1995

Undergraduate Research Projects

Alex Ainslie (Independent Major advisor) Chelsea Howe (College Scholar committee member, 2009 graduate), Zachary Lipton (2008–2009), Ben Pu (2007–2009), Dave Golland (Spring 2007), Todd Barthelme (Spring 2007), Benjamin Cole (Fall 2006, Spring 2007), Matt Rawding (Fall 2006, Spring 2007), Alex Rivers (Fall 2006), Brianna Lance (College Scholar committee member, 2006 graduate), Eric Chen (Fall 2005), Guillermo Munoz (Fall 2005), Dmitriy Shtokman (Spring 2005), Eli Brown (Spring 2005), Brian Lukoff (College Scholar committee member, 2004 graduate), Yekaterina Petrova (Fall 2003, Spring 2004), Ron Hose (Fall 2003), Alex Chang (Fall 2003), Steven Baker (2001–2003), Peter Brodsky (Fall 2002), Tyson Bergland (Spring 2001), Ross Paul (College Scholar committee chair, 2000–2001), Jordan Barry (Spring 2001), Jesse Yu (Spring 2001), Theodore Kim (Fall 2000), John Abrehamson (Spring 2000), Marc Durant (Spring 2000), Piyanuch Silapachote (Spring 2000), John Blitzer (1999–2001), Erwin Chan (Fall 1999, Spring 2000), Jim Curcio (Fall 1999), Tiffany Chiu (Summer 1999), Serena Kohli (Summer 1999), Daniel Witriol (Summer 1998), David Young (Summer 1998), Julie Goldberg (Spring 1997, Summer 1998), Greg Baeckler (Spring 1997), Dan Klein (Spring 1997), Ken Lee (Spring 1997), Tina Nolte (Spring 1997), Shawn Cooper (1996–1997), Sam

(Wai Kwong) Lee (1996–1997), Mitesh Shah (1996–1997), Dan Bernstein, (Fall 1996), Ed Wayt (Fall 1996), Sradee Roochon (Spring 1996), Tristan DeBuyscher (Fall 1995, Spring 1996), Kevin Saunders (from Environmental Engineering, 1995–1997), Eric Allen (Summer 1995, Spring and Summer 1996) Scott Brown (Spring 1995), Phil Irwin (Spring 1995)

MEng Projects

Beibei Zhu (Spring 2009) Yan Tang (Spring 2009) Terry Chia-Wei Wu (Fall 2008) Eugen Mirkin (Spring 2007) Abishek Sharma (Spring 2007) Chong Suk Yoon (Fall 2006, Spring 2007) Janani Deverajan (Fall 2006, Spring 2007) Rajat Mehta (Fall 2006, Spring 2007) Saudia Ooyshee (Spring 2006), Dustin Harber (Spring 2006), Derrick Yeung (Spring 2006), Doug Wong (Spring 2006), Danish Mujeeb (Spring 2006), Yiu Woon Lau (Spring 2006), Justin Hart (Fall 2005), Richard Calvi (Summer/Fall 2005), Joe Dillman (Spring 2005), Greg Leedberg (Spring 2005), Eli Brown (Spring 2005), Rongrong Heather Qi (Spring 2005), Dustin Shultz (Spring 2005), Soo-Yung Cho (Fall 2004, Spring 2005), Yasuhiko Kuichi (Fall 2004, Spring 2005), Andrew Kae (Fall 2004), Sofya Tennenbaum (Fall 2004), Santoshreddy Karla (Fall 2004), Sukwon Yoon (Fall 2003, Spring 2004), Bing Zhao (Fall 2003, Spring 2004), Young-Hoon Mok (Fall 2003), Mikolaj Franaszczuk (Fall 2003), Nadya Travinin (Fall 2001), Mirek Janusz (Fall 2001), Marjorie Freedman (Fall 2001, Spring 2002), Dennis Yeh (Spring 2002), Sheila Kang (Fall 2000, Spring 2001), Eric Strong (Spring 2001), Ngoclan Vu (Fall 2000), Roman Lobkovsky (Spring 2000), Rui Wang (Spring 2000), Woong Yoon (Fall 1999, Spring 2000) Ernie Post (Fall 1998, Spring 1999), Jerry Hsu (Fall 1996), Shilpa Agarwal (Spring 1996), Janeen Reich (Spring 1996), Ivan Tam, (Spring 1996), Yuichi Tsuchimoto, (Spring 1996, Fall 1996), Agatha Hsin Liu (Fall 1996), Carlos Barragan-Orbe, (Fall 1995, Spring 1996), Ed Lazzerini, (Fall 1995, Spring 1996), Chris Paradis, (Fall 1995, Spring 1996), Daniel Rabinovitch, (Fall 1995, Spring 1996), Lynn Dabbous (Fall 1995), Heng-Kwan Ju (Fall 1994, Spring 1995), Boon Bin Saelim (Fall 1994, Spring 1995)

Department, College, and University Service

Director, Information Science Program, 2005–2010
Co-Director of Undergraduate Studies, Information Science, Systems, and Technology (Eng), 2004–2005
Member, Computer Science Chair Search Committee, 2006, 2004, 1999
Member, Information Science Curriculum Committee, 2002–present
Co-Director, Information Science Program, 2004–2005
Director of Undergraduate Studies, Information Science (A&S, CALS), 2003–2005
Member, Computing and Information Science Council, 2004–present
Founding Member, Cornell Virtual Center for Language Acquisition, 2002–present
Member, Cornell Presidential Research Scholars Board, 2002–present
Member, Provost’s Advisory Group of Women in Science and Engineering (WISE), 2001–present
Member, College Scholar Advisory Board, 2000–present
Member, Independent Major Advisory Board, 2000–present
Advisor, Cognitive Studies Concentration, 1994–present
College Scholar Advisor, 2001–pres, 1997–1998, 1995–1996

Member, Faculty of Computing and Information Founders, 2001–2003
 Chair, Working Group for Undergraduate Majors in Information Science, 2002–2003
 Independent Major Advisor, 2001–2004
 Member, Faculty of Computing and Information Working Group for Information Science, 2001–2002
 Member, Faculty of Computing and Information Working Group for Crosscutting Education Programs, 2001
 Member, Selection Committee, Cognitive Studies Summer Fellowships, 1996–2001
 Member, Selection Committee, Cognitive Studies Continuing Fellowships, 1996–2001
 Member, Selection Committee, Cognitive Studies Incoming Fellowship, 1998–2001
 Member, Ph.D. Admissions Committee, Department of Computer Science, 2001, 1997, 1996
 Member, Space Committee, Department of Computer Science, 2001
 Member, Cognitive Studies Steering Committee, 1999–2001
 Member, Selection Committee, Engineering College Associate Dean for Undergraduate Programs, 1999
 Member, Selection Committee, Computer Science Department Chair, 1999
 Member, Engineering College Lecture Series Committee, 1999–2000
 Member, Fall Faculty Reception Committee, Engineering College, 1999
 Member, Faculty Recruiting Committee, Department of Computer Science, 1999
 Member, Selection Committee, Engineering College Teaching Awards, 1998
 Organizer, AI Q exam, Department of Computer Science, 1995, 1996, 1997
 Reviewer, Undergraduate Minority/Underrepresented Summer Research Exchange Program, 1996
 Member, Cognitive Studies Undergraduate Committee, 1994, 1995, 1996
 Member, Engineering College Committee on Faculty Development and Mentoring, 1995

Outreach

Organizing Committee Member, *North American Computational Linguistics Olympiad (NACLO)*, Ithaca site, Cornell University, 2009
 Program Committee Member, NAACL HLT Student Research Workshop, 2009
 Panelist, *NAACL HLT Student Research Workshop*, 2009
 Leader, *Women in Science Roundtable Discussion for Women Athletes*, Yale University, 2007
 Reviewer, *AAAI 2007 Student Abstract and Poster Program*, 2007
 Organizing Committee Member, *First North American Computational Linguistics Olympiad (NAMCLO)*, Ithaca site, Cornell University, 2007
 Panelist, *Student Research Session, 42nd Annual Meeting of the Association for Computational Linguistics (ACL-04)*, 2004
 Founding member, *Women's Mentorship Program in Computer Science* at Cornell University
 Reviewer, *NAACL-sponsored Summer School in Language Technologies*, North American Chapter of the Association for Computational Linguistics, 2003
 Reviewer, *AAAI Doctoral Consortium*, Eighteenth International Joint Conference on Artificial Intelligence, 2003

Panelist, *Perspectives on Women in Computer Science*, Women's Mentorship Program in Computer Science, Department of Computer Science, Cornell University, December 2002

Organizer, *first NAACL-sponsored Summer School in Language Technologies*, North American Chapter of the Association for Computational Linguistics, 2002

Panelist, *Student Research Workshop*, 40th Annual Meeting of the Association for Computational Linguistics, 2002

Reviewer, *Cornell Engineering Communications Program* technical writing classes, Spring 2000

Lecturer, *Cornell University Summer College*, Explorations in Engineering, 1999, 2000

Panelist, *North American Association for Computational Linguistics Student Research Workshop*, 2000

Panelist, *AAAI/SIGART Doctoral Consortium*, 1999

Board of Advisors, *GirlWideWeb*, an internet magazine for girls 9 to 15, 1997–2000

Panelist, *ENGRG470 Undergraduate Teaching* panel discussion on teaching

Panelist, *Association for Computer Science Undergraduates (ACSU)* panel discussion on graduate school, 1995, 1997

Reviewer, *Cornell Engineering Communications Program* technical writing classes, each semester from Fall 1994 to Spring 1996

Reviewer, *Twelfth National Conference on Artificial Intelligence Student Poster Session*, 1993

Logo Instructor, *Cambridge Elementary School Volunteers*, Cambridge, MA, 1983–1984

July 16, 2009