

Kathleen R. McKeown

Address Dept. of Computer Science
 Columbia Univ. New York, N.Y. 10027

 20 Prospect Rd.
 Wayne, NJ 07470

Telephone (973) 694-3296 - Home

 (212) 939-7118 - Office

Education

Ph. D., Computer and Information Science, University of Pennsylvania, 1982

M.S., Computer and Information Science, University of Pennsylvania, 1979

A.B., Comparative Literature, Brown University, 1976

Professional Employment

July 2011 to present. Columbia University. Vice Dean for Research, School of Engineering and Applied Science

January 2005 to present. Columbia University. Henry and Gertrude Rothschild Professor

January 2003 to present. Columbia University. Professor

July 2003 to December 2003. Columbia University. Acting Chair

July 1997 to December 2002. Columbia University. Professor and Chair, sabbatical fall 2000

July 1987 to July 1997. Columbia University. Associate Professor

Sept. 1982 to July 1987. Columbia University. Assistant Professor

Sept. 1980 to May 1982. University of Pennsylvania. Research Fellow

Sept. 1978 to Aug. 1980. University of Pennsylvania. IBM Research Fellow

Sept. 1977 to May 1978. University of Pennsylvania. Teaching Fellow

Honors

Columbia Great Teacher Award, 2010.

Anita Borg Woman of Vision Award for Innovation, 2010.

Fellow, Association for Computing Machinery, 2003.

Outstanding Woman Scientist, New York Association of Women in Science, 2000.

Fellow, American Association of Artificial Intelligence, 1994.

Invited Speaker: CICLING-07, Mexico; INLG-06 Australia; INLG-2000, Israel; IJCAI-97, Nagoya, Japan; ACSC-97 (Australian Computer Science Conference), Sydney, Australia; PACLING-93, Vancouver, British Columbia.

NSF Faculty Award for Women, awarded September 1991 for a 5 year period.

The Instructional Technology Research Award, presented by the American Society for Training and Development for an outstanding research contribution which impacts instructional technology practice, jointly with Steven K. Feiner, for "COMET: Generating Coordinated Multimedia Explanations," a video.

Best Paper Award (one of four), Feiner, S. and McKeown, K.R., Generating Coordinated Multimedia Explanations, IEEE Conference on AI Applications, March 1990.

IBM Faculty Development Award, August 1985, August 1986.

NSF Presidential Young Investigator Award, awarded February 1985 for May 1985-1990.

American Society of Information Science award for outstanding Doctoral Dissertation, October 1983.

Rubinoff Award for outstanding achievement in the Doctoral Dissertation, Spring 1982.

IBM Research Fellowship to support my Ph.D. research on the generation of natural language text, Awarded twice, Sept. 1978 and 1979.

Professional Activities

General Conference Chair, Association for Computational Linguistics Annual Conference, 2008.

Member, AAAI Newell Awards Committee, 2005 - 2009.

Co-Chair, AAAI-06 Senior Member Presentations.

CRA Undergraduate Research Awards Committee, 2003-2004.

Secretary, Computing Research Association Board, 2001 - 2004.

Computing Research Association Board Member, 1999 - 2004.

Secretary/Treasurer, Association for Computational Linguistics, 1995-1997.

Editorial Board, Free Speech Journal, 1996-1999.

Editorial Board, Journal of Artificial Intelligence Research, 1993-1996.

Nominating Committee, Association for Computational Linguistics, 1993-1995.

President, Association for Computational Linguistics, Jan 1992-1993.

Reviewing: PACLING-93, Jan. 1993, AI Journal, 1993, IEEE Expert Systems Journal, 1993, CL Journal, 1996, International Workshop on Natural Language Generation, 1996.

Vice President, Association for Computational Linguistics (ACL), Jan. 1991-1992.

AAAI 1991 program committee co-chair (with Tom Dean): This involved selecting and chairing a program committee of 95, setting policy for reviewing, modifying and shaping the conference itself, and overseeing selection of invited speakers. Approximately 700 papers were submitted. 3000 attended the last conference. This is the largest and most respected American conference on Artificial Intelligence.

Program Committees: ACL07-11, HLT/NAACL07-11, EMNLP 2011, ACL Workshop on Text to Text Generation 2011, ACL Workshop on Summarization of New Media 2011, IJCAI 2011, Coling 2010, ACL06, HLT/NAACL 06, SIGIR06, DUC (2001-2006), AMIA 2003, ACL 2000 Summarization Theme Session, AAAI 2000 Senior PC Member, 1999 SIGIR, 1993 DARPA Workshop on Human Language Technology, 1992-1993, Applied Natural Language Processing 1992, ACL, 1987, 1990, 1991, 1992; AAAI NL area chair 1990, DARPA Speech and NL Workshop, 1990; 5th International Workshop on Language Generation, 1990; IEEE Conference on AI Applications, 1989; Chair, IJCAI natural language program committee, 1987.

ACL Executive Board, 1989-91.

Elected Officer, American Association for Artificial Intelligence, 1987-88.

5th International Workshop on Language Generation, Organizing Committee.

ACL Local Arrangements Co-chairperson (co-chair Cecile Paris), 24th Annual Meeting of the Association for Computational Linguistics held at Columbia, June 1986.

Editorial Board, Computational Linguistics Journal, Feb. 1985 - Feb. 1988;

Panel chair and session organizer for panel on "Text Generation," NCC, 1985;

SIGART secretary/treasurer 1983-1987.

Member Association for Computational Linguistics;

Member Cognitive Science;

Member American Association on Artificial Intelligence;

IJCAI-83 reviewer (Eight International Joint Conference on Artificial Intelligence), IJCAI-85 reviewer, IJCAI-87 reviewer, NSF Information Science reviewer, NSF Intelligent Systems reviewer, panel review board for NSF Computer Science Research Equipment Grants; reviewer for Cognitive Science journal

Session chairman for AAAI-84, Session chairman for IJCAI-83, IJCAI-85

Research Activities

Currently directing six PhD graduate students. PhD students are David Elson, Wei Yun Ma, Kristen Parton, Yves Petinot, Sara Rosenthal, Kapil Thadani.

Graduated PhD students:

Michel Galley, 2007, Postdoctoral Fellow, Stanford University, Stanford, Ca..

Elena Filatova, 2007, Assistant Professor, Fordham University, NY, NY

Sasha Blair-Goldensohn, 2007, Technical Staff, Google, New York, NY.

Ani Nenkova, 2006, Assistant Professor, University of Pennsylvania, July 2007 onwards.

Noemie Elhadad, 2006, Assistant Professor, Department of Biomedical Informatics, Columbia University.

Barry Schiffman, 2005, Consultant.

David Evans, 2005, Amazon.com, Tokyo, Japan.

Pablo Duboue, 2005, IBM.

Regina Barzilay, 2003, Associate Professor, MIT.

Carl Sable, December 2002, Assistant Professor, Cooper Union.

Min Yen Kan, November 2002, Associate Professor, National University of Singapore.

Shimei Pan, December 2001, currently at IBM Research, T.J. Watson.

James Shaw, September 2001, Yahoo, California.

Hongyan Jing, April 2001, Context, New York, NY.

Dragomir Radev, March 1999, Professor, University of Michigan.

Vasileios Hatzivassiloglou, May 1998, currently at University of Texas at Dallas (faculty).

Eric Siegel, October 1997, currently at consulting firm.

Pascale Fung, January 1996, currently at Hong Kong Institute of Science and Technology (faculty).

Jacques Robin, December 1994. Currently at Recife Univ., Recife, Brazil, faculty position.

Michael Elhadad, August 1992. Currently at Ben Gurion Univ., Israel (faculty).

Ursula Wolz, May 1992. Currently at The College of New Jersey, Trenton, N.J. (faculty).

Andrea Danyluk, February 1992. Currently at Williams College, Amherst, Mass. N.Y. (faculty).

Frank Smadja, May 1991. Currently consulting, Israel.

Galina Datskovsky Moerdler, March 1990. Currently with MDY Associates, N.Y., N.Y.

Cecile Paris, October 1987, Senior Research Leader in the area of Knowledge Based Systems and AI, CSIRO, Sydney, Australia (major government R&D organization for Australia).

Publications

Journal Articles:

- [1] Siddharthan, A., Nenkova, A., and McKeown, K.
Information Status Distinctions and Referring Expressions: An Empirical Study of References to People in News Summaries.
Journal of Computational Linguistics accepted with revisions, 2011.
- [2] Nenkova, A., Passonneau, R. and McKeown, K.
The pyramid method: incorporating human content selection variation in summarization evaluation.
ACM Transactions on Speech and Language Processing 4(2), 2007.
- [3] Barzilay, R. and McKeown, K.
Sentence Fusion for Multidocument Summarization.
Computational Linguistics 31, 2005.
- [4] Noemie Elhadad, Min-Yen Kan, Judith Klavans, and Kathleen McKeown.
Using Different Levels of Customization in a Unified Framework for Summarizing Medical Literature.
Journal of Artificial Intelligence in Medicine 33(2):179-98, December, 2004.
- [5] Regina Barzilay, Noemie Elhadad, and Kathleen McKeown.
Inferring Strategies for Sentence Ordering in Multidocument News Summarization.
Journal of Artificial Intelligence Research 17:35--55, 2002.
- [6] Shimei Pan, Kathleen McKeown, and Julia Hirschberg.
Exploring Features from Natural Language Generation for Prosody Modeling.
Computer Speech and Language (special issue on spoken language generation) 16(3):457-90, October 2002.
- [7] Desmond Jordan, Kathleen McKeown, Kristian Concepcion, Steven Feiner, and Vasileios Hatzivassiloglou.
Generation and Evaluation of Medical Inferences for Automated Healthcare Briefings.
Journal of American Medical Informatics Association 8, may, 2001.
- [8] Siegel, E., K.R. McKeown.
Learning Methods to Combine Linguistic Indicators: Improving Aspectual Classification and Revealing Linguistic Insights.
Computational Linguistics 26, December, 2000.
- [9] Kathleen McKeown and Shimei Pan.
Prosody modeling in concept-to-speech generation: methodological issues.
Phil. Trans. Royal Society London 358(1769):1419--1431, April, 2000.
- [10] McKeown, K.R., Feiner, S., Dalal, M., and Chang, S.-F.
Generating Multimedia Briefings: Coordinating Language and Illustration.
Artificial Intelligence Journal 103:95--116, , 1998.
- [11] Aho, Alfred and Chang, Shih-Fu and McKeown, Kathleen and Radev, Dragomir and Smith, John and Zaman, Kazi.
Columbia Digital News Project.
International Journal of Digital Libraries 1(4):377--385, 1998.
- [12] Radev, Dragomir R. and McKeown, Kathleen R.
Generating Natural Language Summaries from Multiple On-Line Sources.
Computational Linguistics 24(3):469--500, September, 1998.
- [13] Fung, P. and K.R. McKeown.
Technical Word and Term Translation from Noisy Parallel Corpora Across Language Groups.
Machine Translation , November, 1997.
- [14] Elhadad, M., McKeown, K.R. and Robin, J. .
Floating Constraints in Lexical Choice.
Journal of Computational Linguistics , June, 1997.

- [15] Robin, J. and McKeown, K.R.
Empirically Designing and Evaluating a New Revision-Based Model for Summary Generation.
Artificial Intelligence Journal 85, August, 1996.
- [16] Smadja, F., McKeown, K.R., Hatzivassiloglou.
Translating Collocations for Bilingual Lexicons: A Statistical Approach.
Journal of Computational Linguistics 22(1), March, 1996.
- [17] McKeown, K., Kukich, K., and Robin, J.
Generating Concise Natural Language Summaries.
Journal of Information Processing and Management 31(5), 1995.
- [18] Cole et. al.
The Challenge of Spoken Language Systems: Research Directions for the Nineties.
IEEE Transactions on Speech and Audio Processing 3(1):1-22, January, 1995.
- [19] Feiner, S. and McKeown, K.R.
Automating the Generation of Coordinated Multimedia Explanations.
IEEE Computer 24(10):33-41, October, 1991.
- [20] Smadja, F. and McKeown, K.R.
Using Collocations for Language Generation.
Computational Intelligence 7(4), December, 1991.
- [21] Wolz, U., McKeown, K. R., Kaiser, G.
Automated Tutoring in Interactive Environments: A Task Centered Approach.
Journal of Machine Mediated Learning , December, 1989.
- [22] McKeown, K. R.
Generating Goal Oriented Explanations.
International Journal of Expert Systems I, Issue 4, :377-95, December, 1988.
- [23] McKeown, K. R.
Language Generation: Applications, Issues, and Approaches.
Proceedings of the IEEE , July 1986.
- [24] McKeown, K. R.
Discourse Strategies for Generating Natural Language text.
Artificial Intelligence Journal 27 No. 1, , 1985.
- [25] McKeown, K.R.
Paraphrasing Questions Using Given and New Information.
American Journal of Computational Linguistics , January-March 1983.
- [26] Webber, B. L.; Joshi, A. K.; Mays, E.; McKeown, K. R. ;
Extended Natural Language Data Base Interaction.
International Journal of Computers and Mathematics , December, 1982.
- [27] McKeown, K. R. and Badler, N. I.
Creating Polyhedral Stellations.
Computer Graphics 14, No. 3:19-24, July, 1980.

Books and Book Articles:

- [1] McKeown, Kathleen R. and Radev, Dragomir R.
Collocations.
In Dale, Robert and Moisl, Hermann and Somers, Harold (editor), *A Handbook of Natural Language Processing*. Marcel Dekker, 1999, to appear.
- [2] McKeown, K.R., Elhadad, M., Fukumoto, Y., Lim, J., Lombardi, C., Robin, J., and Smadja, F.
Language Generation in COMET.
In Mellish, C., Dale, R., and Zock, M. (editors), *Current Research in Language Generation*. Academic Press, London, 1990.

- [3] McKeown, K.R. and M. Elhadad.
Comparison of Surface Language Generators: A Case Study in Choice of Connectives.
In Mann, W., Paris, C., and Swartout, W. (editors), *Language Generation*. Kluwer, 1990.
- [4] McKeown, K.R. and W. R. Swartout.
Language Generation and Explanation.
In J. Traub, B. Grosz, B. Lampson, N. Nilsson (editors), *Annual Review of Computer Science*. Annual Reviews Inc., Palo Alto, Ca., 1987.
- [5] Paris, C.L. and McKeown, K.R.
Discourse Strategies for Generating Complex Physical Objects.
In G. Kempen (editors), *Natural Language Generation: Recent Advances in Artificial Intelligence, Psychology and Linguistics*. Kluwer Academic Publishers, Boston/Dordrecht, 1987.
- [6] McKeown, K.R.
Text Generation: Using Discourse Strategies and Focus Constraints to Generate Natural Language Text.
Cambridge University Press, Cambridge, England, 1985.
- [7] McKeown, K.R.
Using Focus to Constrain Language Generation.
In Bara, G.B. and Guida, G. (editors), *Natural Language Processing*. North Holland Publishing Company, 1984.

Conference Proceedings:

- [1] Parton, Kristen and McKeown, Kathleen.
MT Error Detection for Cross-Lingual Question Answering.
In *Proceedings of COLING*. Beijing, China, August, 2010.
- [2] Wang, William Yang and McKeown, Kathleen.
Got You!: Automatic Vandalism Detection in Wikipedia with Web-based Shallow Syntactic-Semantic Modeling.
In *Proceedings of COLING*. Beijing, China, August, 2010.
- [3] David Elson and Kathleen R. McKeown.
Automatic Social Network Extraction for Literary Fiction.
In *Proceedings of the 48th Annual Meeting of the Association for Computational Linguistics*. Uppsala, Sweden, July, 2010.
- [4] Elson, David and McKeown, Kathleen.
Tense and Aspect Assignment in Narrative Discourse.
In *Proceedings of INLG 2010*. Dublin, Ireland, July, 2010.
- [5] David Elson and Kathleen R. McKeown.
Automatic Attribution of Quoted Speech in Literary Narrative.
In *Proceedings of the 24th Annual Conference of the American Association for Artificial Intelligence*. Atlanta, Ga, July, 2010.
- [6] Kathleen R. McKeown, Sara Rosenthal, Kapil Thadani, and Coleman Moore.
Time-Efficient Creation of an Accurate Sentence Fusion Corpus.
In *Proceedings of the 11th Annual Conference of the North American Chapter on Computational Linguistics*. Los Angeles, Ca, June, 2010.
- [7] David Elson and Kathleen R. McKeown.
Building a Bank of Semantically Encoded Narratives.
In *Proceedings of LREC 10*. Malta, May, 2010.
- [8] Sara Rosenthal, William J. Lipovsky, Kathleen McKeown, Kapil Thadani, and Jacob Andreas.
Towards Semi-Automated Annotation for Prepositional Phrase Attachment.
In *Proceedings of LREC 10*. Malta, May, 2010.

- [9] David Elson and Kathleen R. McKeown.
A Tool for Deep Semantic Encoding of Narrative Texts.
In *Proceedings of the ACL-IJCNLP 2009 Conference*. Singapore, August, 2009.
- [10] Wei-Yun Ma and Kathleen R. McKeown.
Where's the Verb Correcting Machine Translation During Question Answering.
In *Proceedings of the ACL-IJCNLP 2009 Conference*. Singapore, August, 2009.
- [11] Kristen Parton, Kathleen McKeown, Robert Coyne, Mona Diab, Ralph Grishman, Dilek Hakkani-Tur, Mary Harper, Heng Ji, Wei Yun Ma, Adam Meyers, Sara Stolbach, Ang Sun, Gokhan Tur, Wei Xu, and Sibel Yarman .
Who, What, When, Where, Why? Comparing Multiple Approaches to the Cross-Lingual 5W Task.
In *Proceedings of the ACL-IJCNLP 2009 Conference*. Singapore, August, 2009.
- [12] Apoorv Agarwal and Fadi Biadisy and Kathleen McKeown .
Contextual Phrase-Level Polarity Analysis Using Lexical Affect Scoring And Syntactic N-Grams.
In *Proceedings of the 12th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2009)*. Athens, Greece, March, April, 2009.
- [13] Kristen Parton and Kathleen McKeown and James Allan and Enrique Henestroza .
Simultaneous multilingual search for translanguing information retrieval.
In *Proceedings of the ACM 17th Conference on Information and Knowledge Management (CIKM)*. Napa Valley, Ca., October, 2008.
- [14] Kapil Thadani and Kathleen McKeown .
A Framework for Decreasing Textual Redundancy.
In *Proceedings of the 22nd International Conference on Computational Linguistics (COLING)*. Manchester, England, August, 2008.
- [15] David Elson and Kathleen McKeown .
A Platform for Symbolically Encoding Human Narratives .
In *Proceedings of the AAAI 2007 Fall Symposium on Intelligent Narrative Technologies*. Arlington, Va., November, 2007.
- [16] Barry Schiffman, Kathleen McKeown, Ralph Grishman, James Allan .
Question Answering using Integrated Information Retrieval and Information Extraction .
In *Proceedings of HLT/NAACL 07*. Rochester, NY, April, 2007.
- [17] Sasha Blair-Goldensohn, Kathleen McKeown, and Owen Rambow.
Building and Refining Rhetorical-Semantic Relation Models.
In *Proceedings of HLT/NAACL 07*. Rochester, NY, April, 2007.
- [18] Michel Galley and Kathleen McKeown.
Lexicalized Markov Grammars for Sentence Compression.
In *Proceedings of HLT/NAACL 07*. Rochester, NY, April, 2007.
- [19] Kathleen McKeown, Lokesh Shrestha, and Owen Rambow.
Using Question-Answer Pairs in Extractive Summarization of Email Conversations.
In *Proceedings of CICLING 07*. Mexico City, Mexico, February, 2007.
- [20] Elena Filatova, Vasileios Hatzivassiloglou and Kathleen R. McKeown.
Automatic Creation of Domain Templates.
In *Proceedings of Coling/ACL 06 (Poster Session)*, pages 207-214. Sydney, Au., July, 2006.
- [21] Ani Nenkova, Lucy Vandervende and Kathleen R. McKeown.
A Compositional Context Sensitive Multi-Document Summarizer.
In *Proceedings of SIGIR 06*. Seattle, Wa., 2006.
- [22] Ani Nenkova, Advait Siddharthan and Kathleen R. McKeown.
Automatically Learning Cognitive Status for Multi-Document Summarization of Newswire.
In *Proceedings of HLT/EMNLP-05*. Vancouver, Canada, 2005.

- [23] Advait Siddharthan and Kathleen R. McKeown.
Improving Multilingual Summarization: Using Redundancy in the Input to Correct MT Errors.
In *Proceedings of HLT/EMNLP-05*. Vancouver, Canada, 2005.
- [24] Barry Schiffman and Kathleen R. McKeown.
Context and Learning in Novelty Detection.
In *Proceedings of HLT/EMNLP-05 (poster)*. Vancouver, Canada, 2005.
- [25] Kathleen R. McKeown, Rebecca J. Passonneau, David K. Elson, Ani Nenkova and Julia Hirschberg.
Do Summaries Help? A Task-based Evaluation of Multi-Document Summarization.
In *Proceedings of SIGIR-05*. Salvador, Brazil, 2005.
- [26] David Evans and Kathleen R. McKeown.
Identifying Similarities and Differences Across Arabic and English News.
In *Proceedings of the International Conference on Intelligence Analysis*. McLean, VA, 2005.
- [27] McKeown, K.R., Hirschberg, J., Galley, M. and Maskey, S.
From Text to Speech Summarization.
In *Proceedings of ICASSP*. Philadelphia, PA, 2005.
- [28] Sasha Blair-Goldensohn, David Evans, Vasileios Hatzivassiloglou, McKeown Kathleen, Ani Nenkova, Rebecca Passonneau, Barry Schiffman, Andrew Schlaikjer, Advait Siddharthan and Sergei Siegelman.
Columbia University at DUC 2004.
In *4th Document Understanding Conference (DUC 2004) at HLT/NAACL 2004*. Boston, MA, 2004.
- [29] Michel Galley, Kathleen McKeown, Julia Hirschberg and Elizabeth Shriberg.
Identifying Agreement and Disagreement in Conversational Speech: Use of Bayesian Networks to Model Pragmatic Dependencies.
In *Proc. of the 42nd ACL*. Barcelona, Spain, 2004.
- [30] Desmond Jordan, Gregory Whalen, Blaine Bell, Kathleen McKeown, and Steven Feiner.
An Evaluation of Automatically Generated Briefings of Patient Status.
In *Medinfo 2004*. San Francisco, Ca., 2004.
- [31] Lokesh Shrestha and Kathleen McKeown.
Detection of Question-Answer Pairs in Email Conversations.
In *Proceedings of Coling 2004*. Geneva, Switzerland, 2004.
- [32] Stephen Wan and Kathleen McKeown.
Generating "State-of-Affairs" Summaries of Ongoing Email Thread Discussions.
In *Proceedings of Coling 2004*. Geneva, Switzerland, 2004.
- [33] Advait Siddharthan, Ani Nenkova and Kathleen McKeown.
Syntactic Simplification for Improving Content Selection in Multi-Document Summarization.
In *20th International Conference on Computational Linguistics (COLING 2004)*. Geneva, Switzerland, 2004.
- [34] Kathleen R. McKeown, Noemie Elhadad, and Vasileios Hatzivassiloglou.
Leveraging a Common Representation for Personalized Search and Summarization in a Medical Digital Library.
In *Proceedings of the ACM/IEEE Joint Conference on Digital Libraries*. Houston, Tx, May, 2003.
- [35] Ani Nenkova and Kathleen R. McKeown.
References to Named Entities: A Corpus Study.
In *Proceedings of the Human Language Technology Conference, Vol. II*. Edmunton, Ca., May, 2003.
- [36] Kathleen R. McKeown, Regina Barzilay, John Chen, David Elson, David Evans, Judith Klavans, Ani Nenkova, Barry Schiffman and Sergey Sigelman.
Columbia's Newsblaster: New Features and Future Directions.
In *Proceedings of the Human Language Technology Conference, Vol. II*. Edmunton, Ca., May, 2003.

- [37] Michel Galley and Kathleen R. McKeown.
Improving Word Sense Disambiguation in Lexical Chaining.
In *Proceedings of the 18th International Joint Conference on Artificial Intelligence, poster*. Acapulco, Mexico, August, 2003.
- [38] Sasha Blair-Goldenson and Kathleen R. McKeown.
DefScriber: A Hybrid System for Definitional QA.
In *demo, Proceedings of SIGIR 2003*. Toronto, Ca., July, 2003.
- [39] Andre Kushniruk, Men-Yen Kan, Kathleen R. McKeown, Judith L. Klavans, Desmond Jordan and Vimla L. Patel.
Usability Evaluation of an Experimental Text Summarization System and Three Search Engines: Implications for the Reengineering of Health Care Interfaces.
In *Proceedings of the American Medical Informatics Association*. San Antonio, Tex, November, 2002.
- [40] Andre Kushniruk, Men-Yen Kan, Kathleen R. McKeown, Judith L. Klavans, and Vimla L. Patel.
Evaluating the Content and Usability of an Experimental Text Summarization System and Three Web-Based Search Engines.
In *Proceedings of the Human Factors and Ergonomics Society 46th Annual Meeting*. Baltimore, Md, October, 2002.
- [41] Carl L. Sable, Kathleen R. McKeown and Kenneth W. Church.
NLP Found Helpful (at least for one Text Categorization Task).
In *Proceedings of Empirical Methods in Natural Language Processing*. Philadelphia, Pa., July, 2002.
- [42] Pablo A. Duboue and Kathleen R. McKeown.
Content Planner Construction via Evolutionary Algorithms and Alignment-based Fitness Function.
In *Proceedings of the International Conference on Natural Language Generation*. Harriman, NY, July, 2002.
- [43] Min Yen Kan and Kathleen McKeown.
Corpus-trained text generation for summarization.
In *Proceedings of the International Conference on Natural Language Generation*. Harriman, NY, July, 2002.
- [44] Min Yen Kan, Judith Klavans and Kathleen R. McKeown.
Using the Annotated Bibliography as a Resource for Indicative Summarization.
In *Proceedings of the Language Resources European Conference*. Spain, May, 2002.
- [45] Kathleen McKeown, Regina Barzilay, David Evans, Vasileios Hatzivassiloglou, Judith Klavans, Ani Nenkova, Carl Sable, Barry Schiffman and Sergey Sigelman.
Tracking and Summarizing News on a Daily Basis with Columbia's Newsblaster.
In *Proceedings of the Human Language Technology Conference*. San Diego, Ca., March, 2002.
- [46] Barry Schiffman, Ani Nenkova, and Kathleen McKeown.
Experiments in Multi-Document Summarization.
In *Proceedings of the Human Language Technology Conference*. San Diego, Ca., March, 2002.
- [47] Simone Teufel, Vasileios Hatzivassiloglou, Kathleen R. McKeown, Desmond A. Jordan, Kathleen M. Dunn, Sergey Sigelman, and Andre Kushniruk.
Personalizing Retrieval of Journal Articles for Patient Care.
In *Proceedings of the American Medical Informatics Association Annual Conference*. Washington D.C., November, 2001.
- [48] Kathleen R. McKeown, Shih-Fu Chang, James Cimino, Steven K. Feiner, Carol Friedman, Luis Gravano, Vasileios Hatzivassiloglou, Desmond Jordan, Judith L. Klavans, Andre Kushniruk, and Vimla Patel.
PERSIVAL, a System for Personalized Search and Summarization over Multimedia Healthcare Information.
In *Proceedings of The First ACM+IEEE Joint Conference on Digital Libraries*. Roanoke, W. Va., June, 2001.
- [49] Pan, S., K.R. McKeown, and J. Hirschberg.
Semantic Abnormality and its Realization in Spoken Language.
In *Proceedings of Eurospeech 2001*, pages 333--336. , Aalborg, Denmark, , 2001.

- [50] Barzilay R., Elhadad, N. and K.R. McKeown.
Sentence Ordering in Multidocument Summarization.
In *Proceedings of HLT*. San Diego (CA), USA, 2001.
- [51] Barzilay R, and K.R. McKeown.
Extracting Paraphrases from a Parallel Corpus.
In *Proceedings of the 39th Annual Meeting of the Association for Computational Linguistics (ACL-EACL 2001)*. Toulouse, France, July, 2001.
- [52] Duboue, P. and K.R. McKeown.
Empirically Estimating Order Constraints for Content Planning in Generation.
In *Proceedings of the 39th Annual Meeting of the Association for Computational Linguistics (ACL-EACL 2001)*. Toulouse, France, July, 2001.
- [53] Kathleen McKeown, Desmond Jordan, Steven Feiner, James Shaw, Elizabeth Chen, Shabina Ahmad, Andre Kushniruk, and Vimla Patel.
A Study of Communication in the Cardiac Surgery Intensive Care Unit and its Implications for Automated Briefing.
In *Proceedings of the American Medical Informatics Association Annual Conference*. Los Angeles, Ca., November, 2000.
- [54] Barry Schiffman and Kathleen R. McKeown.
Experiments in Automated Lexicon Building for Text Searching.
In *Proceedings, COLING 2000*. Saarbruecken, Germany, 2000.
- [55] James Shaw and Kathleen McKeown.
Generating Referring Quantified Expressions.
In *Proceedings of the International Natural Language Generation Conference*. Mitzpah Ramon, Israel, 2000.
- [56] Hongyan Jing and Kathleen R. McKeown.
Cut and paste based text summarization.
In *Proceedings of the First Meeting of the North American Chapter of the Association for Computational Linguistics (NAACL'2000)*. Seattle, Washington, USA, 2000.
- [57] Barzilay, R., McKeown, K.R., and Elhadad, M.
Information Fusion in the Context of Multi-Document Summarization.
In *Proceedings of the the 37th Annual Meeting of the Association for Computational Linguistics*. College Park, Maryland, June, 1999.
- [58] Hatzivassiloglou, V., Merport, O., McKeown, K.R., and Jordan, D.A.
Extracting Patient Profiles from Patient Records and Online Literature.
In *Proceedings of the AMIA 1999 Annual Symposium*. American Medical Informatics Association, Washington, DC, submitted, 1999.
- [59] Jing, H. and McKeown, K.R.
The Decomposition of Human-Written Summary Sentences.
In *Proceedings of the 22nd International ACM SIGIR Conference on Research and Development in Information Retrieval(SIGIR'99)*. University of Berkeley, CA, August, 1999.
- [60] McKeown, K.R., Klavans, J.L. Hatzivassiloglou, V., Barzilay, R., and Eskin, E.
Towards Multidocument Summarization by Reformulation: Progress and Prospects.
In *Proceedings of the 17th National Conference on Artificial Intelligence (AAAI-99)*. American Association for Artificial Intelligence, Orlando, Florida, July, 1999.
- [61] Pan, S. and McKeown, K.R.
Word Informativeness and Automatic Pitch Accent Modeling.
In *Proc. of the Joint SIGDAT Conference on Empirical Methods in Natural Language Processing and Very Large Corpora*. June, 1999.

- [62] Jing, H. and McKeown, K.R.
Combining Multiple, Large-Scale Resources in a Reusable Lexicon for Natural Language Generation.
In *Proceedings of the 17th International Conference on Computational Linguistics and the 36th Annual Meeting of the Association for Computational Linguistics*. Montreal, Can., August, 1998.
- [63] Pan, S. and McKeown, K.R.
Learning Intonation Rules for Concept to Speech Generation.
In *Proceedings of the 17th International Conference on Computational Linguistics and the 36th Annual Meeting of the Association for Computational Linguistics*. Montreal, Can., August, 1998.
- [64] James Shaw and Kathleen McKeown.
An architecture for aggregation in text generation.
In *Proc. of the 15th IJCAI*. Nagoya, Japan, 1997.
Poster Session.
- [65] Hatzivassiloglou, V. and McKeown, K.R.
Predicting the Semantic Orientation of Adjectives.
In *Proceedings of the 35th Annual Meeting of the Association for Computational Linguistics*. Madrid, Spain, July, 1997.
- [66] Aho, Alfred and Chang, Shih-Fu and McKeown, Kathleen and Radev, Dragomir and Smith, John and Zaman, Kazi.
Columbia Digital News System : An Environment for Briefing and Search over Multimedia Information.
In *Proceedings of {IEEE} International Conference on the Advances in Digital Libraries*. Washington, DC, 1997.
- [67] McKeown, K., Pan, S., Shaw, J. Jordan, D. and Allen, B. .
Language Generation for Multimedia Healthcare Briefings.
In *Proc. of the 5th ACL Conference on Applied Natural Language Processing*, pages 277-282. Washington, DC, 1997.
- [68] Radev, D. and McKeown, K.R.
Building a Generation Knowledge Source using Internet-Accessible Newswire.
In *Proceedings of the ACL Conference on Applied Natural Language*, pages 221--228. Washington, D.C., April, 1997.
- [69] M. Dalal and S. Feiner and K. McKeown and S. Pan and M. Zhou and T. Hoellerer and J. Shaw and Y. Feng and J. Fromer.
Negotiation for automated generation of temporal multimedia presentations.
In *Proc. ACM Multimedia '96*, pages 55-64. Boston, MA, November 18--22, 1996.
- [70] Pan, S. and McKeown, K.R.
Spoken Language Generation in a Multimedia System.
In *Proceedings of ICSLP 96*, pages 374-377. Philadelphia, PA, 1996.
- [71] M. Dalal, S. Feiner, K. McKeown, D. Jordan, B. Allen, and Y. alSafadi.
MAGIC: An experimental system for generating multimedia briefings about post-bypass patient status.
In *Proc. 1996 AMIA Annual Fall Symp*, pages 684-688. Washington, DC, October 26--30, 1996.
- [72] Seigel, E. and K.R. McKeown.
Gathering statistics to aspectually classify sentences with a genetic algorithm.
In *NEMLAP Proceedings*. Ankara, Turkey., September, 1996.
- [73] McKeown, K.R. and Radev, D.
Generating Summaries of Multiple News Articles.
In *Proceedings of SIGIR*. Seattle, Wash., July, 1995.
- [74] Hatzivassiloglou, V. and McKeown, K.R.
Automatic Prediction of Semantic Markedness.
In *Proceedings of the Annual Conference of the Association for Computational Linguistics*. Cambridge, Mass., June, 1995.

- [75] McKeown, K.R., Kukich, K., and Shaw, J.
Practical Issues in Automatic Documentation Generation.
In *Proceedings of the ACL Conference on Applied Natural Language*. Stuttgart, Germany, October, 1994.
- [76] Siegel, E. and McKeown, K.R.
Emergent Linguistic Rules from the Automatic Grouping of Training Examples.
In *Proceedings of the National Conference on Artificial Intelligence*. Seattle, Wash., July, 1994.
- [77] Smadja, F. and McKeown, K.R.
Translating Collocations for Use in Bilingual Lexicons.
In *Proceedings of the ARPA Human Language Technology Workshop*. Princeton, N.J., March, 1994.
- [78] Kukich, K., McKeown, K.R., Shaw, J., Robin, J., Lim, J., Morgan, N., and Phillips, J.,
User-Needs Analysis and Design Methodology for an Automated Documentation Generator.
In *Proceedings of the Fourth Bellcore/BCC Symposium on User-Centered Design*. Piscataway, N.J.,
November, 1993.
- [79] Hatzivaassiloglou, V. and McKeown, K.R.
Towards the automatic identification of adjectival scales: clustering of adjectives according to meaning.
In *Proceedings of the 31st Annual Meeting of the Association for Computational Linguistics*. Columbus,
Oh., June, 1993.
- [80] McKeown, K.R., Robin, J., and Tanenblatt, M. .
Tailoring lexical choice to the user's vocabulary in multimedia explanation generation.
In *Proceedings of the 31st Annual Meeting of the Association for Computational Linguistics*. Columbus,
Oh., June, 1993.
- [81] Robin, J. and McKeown, K.R.
Corpus analysis for revision-based generation of complex sentences.
In *Proceedings of the National Conference on Artificial Intelligence*. Washington, D.C., July, 1993.
- [82] McKeown, K.R., Feiner, S., Robin, J., Seligmann, D.D., Tanenblatt, M. .
Generating Cross References for Multimedia Explanation.
In *Proceedings of the National Conference on Artificial Intelligence*. San Jose, Ca., July, 1992.
- [83] Elhadad, M., Feiner, S., K.R. McKeown, Seligmann, D.D.
Generating Customized Text and Graphics in the COMET Explanation Testbed.
In *Proceedings of the 1991 Winter Simulation Conference*, pages 1058-65. Phoenix, Ariz., December, 1991.
- [84] Elhadad, M. and K.R. McKeown.
A Procedure for Generating Connectives.
In *Proceedings of COLING*. Helsinki, Finland, July, 1990.
- [85] Smadja, F. and K.R. McKeown.
Automatically Extracting and Representing Collocations for Language Generation.
In *Proceedings of the 28th Annual Meeting of the Association for Computational Linguistics*. Pittsburgh,
Pa., June, 1990.
- [86] Feiner, S. and K.R. McKeown.
Coordinating Text and Graphics in Explanation Generation.
In *Proceedings of AAAI*. Boston, Mass., August, 1990.
- [87] Feiner, S. and K.R. McKeown.
Generating Coordinated Multimedia Explanations.
In *Proceedings of the IEEE Conference on AI Applications*. Santa Barbara, CA., March, 1990.
- [88] Datskovsky Moerdler, G. and K. R. McKeown.
Beyond Semantic Ambiguity.
In *Proceedings of AAAI-88*. Saint Paul, Minn., August, 1988.
- [89] Datskovsky Moerdler, G., McKeown, K. R., and R. Ensor.
Building Natural Language Interfaces for Rule-based Expert Systems.
In *Proceedings of the Tenth International Joint Conference on Artificial Intelligence*. Milan, Italy, August,
1987.

- [90] McKeown, K. R. and C. L. Paris.
Functional Unification Grammar Revisited.
In *Proceedings of the 25th Annual Meeting of the Association for Computational Linguistics*. Association for Computational Linguistics, Stanford, Ca., July, 1987.
- [91] McKeown, K. R.
Communication with Expert Systems.
In *Proceedings of FJCC 86*. Fall Joint Computer Conference, Dallas, Texas, November, 1986.
- [92] McKeown, K. R.
The Need for Text Generation.
In *Proceedings of NCC 85*. National Computer Conference, Chicago, Ill., July, 1985.
- [93] McKeown, K. R., M. Wish, and K. Matthews.
Tailoring Explanations for the User.
In *Proceedings of the 10th International Joint Conference on Artificial Intelligence*. Los Angeles, Ca., August, 1985.
- [94] McKeown, K. R.
Natural Language for Expert Systems: Comparisons with Database Systems.
In *Proceedings of COLING '84*. Association for Computational Linguistics, Stanford, Ca., July, 1984.
- [95] Derr, M. A. and K. R. McKeown.
Using Focus to Generate Complex and Simple Sentences.
In *Proceedings of COLING '84*. Association for Computational Linguistics, Stanford, Ca., July, 1984.
- [96] McKeown, K. R.
Natural Language Systems: How are they meeting human needs?
In *Proceedings of ACM '83*. Association for Computing Machinery, New York, N.Y., October, 1983.
- [97] McKeown, K. R.
Recursion in Text and its Use in Language Generation.
In *Proceedings of the Third Annual National Conference on Artificial Intelligence*. American Association of Artificial Intelligence, Washington, D.C., August, 1983.
- [98] McKeown, K. R.
Focus Constraints on Language Generation.
In *Proceedings of the Eight International Conference on Artificial Intelligence*. Karlsruhe, Germany, August, 1983.
- [99] McKeown, K. R.
The TEXT System for Natural Language Generation: an Overview.
In *Proceedings of the 20th Annual Meeting of the Association for Computational Linguistics*, pages 113-20. Association for Computational Linguistics, Toronto, Ontario, Canada, June, 1982.
- [100] McKeown, K. R.
Generating Relevant Explanations: Natural Language Responses to Questions about Database Structure.
In *Proceedings of the First Annual National Conference on Artificial Intelligence*, pages 306-9. American Association for Artificial Intelligence, Stanford, Ca., August, 1980.
- [101] McKeown, K. R.
Paraphrasing Using Given and New Information in a Question-Answer System.
In *Proceedings of the 17th Annual Meeting of the Association for Computational Linguistics*, pages 67-72. Association for Computational Linguistics, La Jolla, Ca., August, 1979.

Workshops:

- [1] Mukund Jha, Jacob Andreas, Kapil Thadani, Sara Rosenthal, and Kathleen R. McKeown.
Semi-Automated Approach for Building Prepositional Phrase Attachment Corpus from Blogs.
In *Proceedings of the NAACL 2010 Workshop on Creating Speech and Language Data With Amazon.s Mechanical Turk*. Los Angeles, Ca, June, 2010.

- [2] M.Y. Kan., K.R. McKeown., J. Klavans.
Domain Specific informative & indicative summarization for information retrieval.
In *Proceedings of the Document understanding workshop {DUC 2001}*. New Orleans, USA, September, 2001.
- [3] K.R. McKeown, Barzilay, R., Evans, D., Hatzivassiloglou, V., M.Y. Kan., Schiffman, B., Teufel, S.
Columbia Multi-Document Summarization: Approach and Evaluation.
In *Proceedings of the Document Understanding Workshop (DUC 2001)*. New Orleans, USA, September, 2001.
- [4] Elhadad, N. and K.R. McKeown.
Towards Generating Patient Specific Summaries of Medical Articles.
In *Workshop on Automatic Summarization, NAACL*. Pittsburg (PA), USA, 2001.
- [5] Hatzivassiloglou, V., Klavans, J., Holcombe M., Barzilay, R., M.Y. Kan., K.R. McKeown.
Simfinder: A Flexible Clustering Tool for Summarization.
In *Workshop on Automatic Summarization, NAACL*. Pittsburg (PA), USA, 2001.
- [6] M.Y. Kan., K.R. McKeown., Klavans, J.
Applying Natural Language Generation to Indicative Summarization.
In *Proceedings of 8th European Workshop on Natural Language Generation at the ACL/EACL 2001 Conference*. Toulouse, France, July, 2001.
- [7] Radev, Dragomir R. and Hatzivassiloglou, Vasileios and McKeown, Kathleen R.
A Description of the CIDR System as used for TDT-2.
In *DARPA Broadcast News Workshop*. Herndon, VA, February, 1999.
- [8] S. Paek and C. Sable and V. Hatzivassiloglou and A. Jaimes and B. Schiffman and S.F. Chang and K. McKeown.
Integration of Visual and Text-Based Approaches for the Content Labeling and Classification of Photographs.
In *{ACM} {SIGIR} Workshop on Multimedia Indexing and Retrieval ({SIGIR-99})*. 1999.
- [9] Jing, H., Barzilay, R. McKeown, K., Elhadad, M.
Summarization Evaluation Methods: Experiments and Analysis.
In *AAAI Symposium on Intelligent Summarization*. Stanford, Ca., March, 1998.
- [10] McKeown, K., Jordan, D., and Hatzivassiloglou, V.
Generating Patient-Specific Summaries of Online Literature.
In *Proceedings of the 1998 AAAI Spring Symposium on Intelligent Summarization*, pages 34--43. Stanford, Ca., March, 1998.
- [11] Kukich, K., Passonneau, R., McKeown, K., Radev, D., Hatzivassiloglou, V., and Jing, Hongyan.
Software re-use and evolution in text generation applications.
In *ACL/EACL Workshop - From Research to Commercial Applications: Making NLP Technology Work in Practice*. Madrid, Spain, 1997.
- [12] Shimei Pan and Kathleen R. McKeown.
Integrating Language Generation with Speech Synthesis in a Concept to Speech System.
In *Proceedings of ACL/EACL'97 Concept to Speech Workshop*. Madrid, Spain, 1997.
- [13] Jing, H., Hatzivassiloglou, V., Passonneau, R., and McKeown, K.R.
Investigating Complementary Methods for Verb Sense Pruning.
In *Proceedings of the ANLP Workshop on Lexical Semantics*. Washington, D.C., April, 1997.
- [14] McKeown, K.R. and Hatzivassiloglou.
Augmenting lexicons automatically: clustering semantically related adjectives.
In *Proceedings of the DARPA Human Language and Technology Workshop*. Princeton, N.J., March, 1993.
- [15] Kukich, K. and McKeown, K.R.
Discourse Structure, Rhetorical Relations and Communicative Intentions in the PLANDoc System.
In *Proceedings of the ACL Workshop on Language Generation*. Columbus, Oh., to appear June, 1993.

- [16] Feiner, S., Litman, D., McKeown, K., and Passonneau, R.
Towards Coordinated Temporal Multimedia Presentations.
In *Proc. AAAI-91 Workshop on Intelligent Multimedia Interfaces*, pages 4–8. Anaheim, CA, July 15, 1991.
- [17] Feiner, S. and K.R. McKeown.
Interactive Multimedia Explanation for Equipment Maintenance and Repair.
In *Proceedings of the DARPA Speech and Natural Language Workshop*. Hidden Valley, Pa., June, 1990.
- [18] Feiner, S. and K.R. McKeown.
Coordinating Text and Graphics in Explanation Generation.
In *Proceedings of the DARPA Speech and Natural Language Workshop*. Harwich, Mass., October, 1989.
- [19] Elhadad, M., Seligmann, D., Feiner, S., and McKeown, K.
A Common Intention Description Language for Interactive Multi-media Systems.
In *A New Generation of Intelligent Interfaces: Proceedings of IJCAI89 Workshop on Intelligent Interfaces*, pages 46-52. Detroit, MI, August 22, 1989.
- [20] McKeown, K.R. and R. Weida.
Highlighting User Related Advice.
In *Workshop on Explanation*. American Association for Artificial Intelligence, August 1988.

Videos:

- [1] Feiner, S. and K.R. McKeown.
COMET: Generating Coordinated Multimedia Explanations.
In *Conference on Computer Human Interaction*. to be shown, 1991.

Technical Reports:

- [1] Passonneau, R., Kukich, K., McKeown, K., Radev, D. and Jing, Hongyan.
Summarizing Web Traffic: A Portability Exercise.
Technical Report CUCS-009-97, Columbia University, Department of Computer Science, New York, NY, USA, March, 1997.
- [2] Elhadad, M. and K. R. McKeown.
But What do you Need to Produce a But?.
Technical Report CUCS-334-88, Department of Computer Science, Columbia University, December, 1987.
- [3] Matthews, K. and K. R. McKeown.
Taking the Initiative in Problem-Solving Discourse.
Technical Report, Department of Computer Science, Columbia University, May, 1984.
- [4] McKeown, K. R.
User-Oriented Explanation for Expert Systems.
Technical Report, Department of Computer Science, Columbia University, August, 1983.
- [5] McKeown, K. R.
Generating Natural Language Text in Response to Questions about Database Structure.
Technical Report MS-CIS-82-05, Dept. of Computer and Information Science, University of Pennsylvania, May, 1982.
Ph.D. Thesis.
- [6] McKeown, K. R.
Generating Natural Language: Deciding What to Say Next.
Technical Report MS-CIS-81-1, Dept. of Computer and Information Science, University of Pennsylvania, June, 1981.
- [7] McKeown, K. R.
Paraphrasing Using Given and New Information in a Question-Answer System.
Technical Report MS-CIS-80-13, Dept. of Computer and Information Science, University of Pennsylvania, August, 1979.
M.S. Thesis.

Oral Presentations

"Natural Language Applications Across Genres: From News to Novels," CRA Distinguished Lecture Series, Department of Computer Science, University of Illinois, May 2011.

"Natural Language Applications Across Genres: From News to Novels," Distinguished speaker, Study of the Applied Language Technology and Society, Rutgers University, March 2011.

"Query-focused Summarization Using Text-to-Text Generation: When Information Comes from Multilingual Sources", Department of Computer Science Lecture Series, Johns Hopkins University, February 2011.

"Summarization and Question Answering Using Text-to-Text Generation", Brown University, November 2007.

"Text summarization: News and Beyond," CICLING invited speaker, February 2007.

"Evaluation of Text Generation Systems: Nightmares and Pleasant Surprises, INLG, July 2006, Australia.

"Text summarization: News and Beyond," The State University of New York at Stony Brook, Department of Computer Science Distinguished Lecture Series, January 2005.

"Text summarization: News and Beyond," Microsoft, August 2004.

"Generating Natural Language Summaries and its use in Tracking and Summarizing News on a Daily Basis," IBM, August 2002.

"Generating Natural Language Summaries and its use in Tracking and Summarizing News on a Daily Basis," ISI, November 2002.

"Personalized Search and Summarization over Multimedia Information," University of Michigan, Computer Science Lecture Series, October 2001.

"Personalized Search and Summarization over Multimedia Information," University of Pittsburgh, Distinguished Lecture Series, Department of Computer Science, October 2001.

"Language Generation and Summarization: Moving Away from Sentence Extraction," Computer Science Lecture Series, November 2000.

"What Can Computers do with Language and Other Media?," NSF 50th Anniversary Symposium, Columbia University, December 2000.

"Reducing Information Overload: Text Summarization and Personalized Digital Libraries," Microsoft Research Labs, October 1999.

"Generating Natural Language Summaries: What is Possible Now?,"

Computer Science Colloquium, Cornell University, January 1999.

"A Patient Care Digital Library: Personalized Search and Summarization over Multimedia Information," panel, IEEE Advances in Digital Libraries Conference, Baltimore, Md., May 1999.

"Generating Multimedia Briefings," Southern Methodist University Distinguished Lecture Series, Dallas, Tx., April 1999.

"Generating Natural Language Summaries: What is Possible Now?", Cornell University, Ithaca, NY, January 1999.

"Concept to Speech Generation for Multimedia Briefings," MIT, Cambridge, Ma., November 1998.

"Generating Summaries of Medical Information," Department of Medical Informatics, Columbia University, NY, NY, November 1998.

"Generating Multimedia Briefings," ISI/USC, Marina del Rey, November 1998.

"Generating Multimedia Briefings," IJCAI invited talk, August 1997.

"Generating Multimedia Briefings," AT&T, Florham Park, September 1997.

"Generating Multimedia Briefings," Harvard University, Cambridge, Mass., November 1997.

"Generating Multimedia Briefings," Univ. of Toronto, Toronto, Can., December 1997.

"Generating Multimedia Briefings," Univ. of Pennsylvania, Philadelphia, Pa., January 1998.

"Generating Multimedia Briefings," Lucent Bell Laboratory, Holmdel, NJ, February 1998.

"Automated Generation of Multimedia Briefings," ONR workshop, Woods Hole, Mass., Sept. 1997.

"Generating Natural Language Summaries for Digital Libraries," invited talk, Shanghai Univ., Shanghai, China, May 1996.

"Generating Natural Language Summaries for Digital Libraries," IBM, Hawthorne, N.Y., January 1996.

"Generating Concise Natural Language Summaries," Linguistics Colloquium, Univ. of Pennsylvania, March 1996.

"Generating Concise Natural Language Summaries," NYNEX, White Plains, N.Y., April 1995.

"Generating Concise Natural Language Summaries," Johns Hopkins University colloquium, Baltimore, Md., February 1995.

“Getting Computers to Interact with their Users in English,” Columbia

Univ. Deans Day, Columbia Univ., April 1994.

“The JANUS Digital Library: An Overview of Research,” Columbia Univ. Partners Meeting, Columbia Univ., April 1994.

“A User Interface for the JANUS Digital Library,” Rutgers Univ., April 1994.

“Automated Generation of 3D Multimedia for Healthcare User Interfaces,” ARPA Human Computer Interaction Workshop, March 1994.

“Language Generation for Multimedia Explanation,” Univ. of Toronto, Feb. 1994.

“Language Generation for Multimedia Explanation,” invited speaker, PACLING-93, Vancouver, B.C., April 1993.

“Automatic Documentation Generation in PLANDoc,” NYNEX colloquium series, NYNEX, White Plains, N.Y., February 1992. (joint talk with Karen Kukich, Bellcore)

“Extracting Constraints on Word Usage from Text Corpora,” Naval Research Labs Colloquium Series, Washington D.C., November 1992.

“Constructing Lexicon Modules through Analysis of Large Text Corpora,” invited talk, DARPA TIPSTER Workshop on Text and Information Retrieval, San Diego, Ca., September 1992.

“Issues for Women in Academia,” Women Speaker Series, UNIX Systems Laboratory, Summit, N.J., September 1992.

“Issues for NL: An Evening of Video Entertainment,” Presidential Address, ACL Banquet after dinner talk, 30th Annual Meeting of the Association for Computational Linguistics, Univ. of Delaware, Newark, Del., July 1992.

“Language Generation for Equipment Maintenance and Repair: Coordinating with Graphics,” Univ. of Pennsylvania, Feb., 1990.

“Language Generation for Equipment Maintenance and Repair: Coordinating with Graphics,” AT&T Bell Laboratories, Jan., 1990.

“Language Generation at Columbia: the Radio Project,” GE, Schnectedy, July 1989.

“Language Generation at Columbia: the Radio Project,” invited speaker, European Workshop on Language Generation, Univ. of Edinburgh, Edinburgh, Scotland, March 1989.

“Highlighting User Related Advice,” AAI Workshop on Explanation, AAI, St. Paul, Minn., August 1988.

“Comparison of Surface Language Generators: A Case Study in Choice of Connectives,” 4th International Language Generation Workshop, Santa Catalina Island, Ca., July 1988.

“Getting Computers to Respond in English,” invited talk, Women in Science Lecture Series, Brookhaven National Laboratory, Brookhaven, N.Y., May 1988.

“Individual Differences in Human Computer Interaction,” panel member, CHI 88, Washington D.C., May 1988.

“Constraints on Text Generation,” invited talk, University of Waterloo, Waterloo, Canada, January 1987.

“Constraints on Text Generation,” invited talk, Texas Instruments, Dallas, Texas, November 1986.

“Natural Language Generation and User Modelling,” tutorial given at COLING-86, Bonn, Germany, August 1986.

“Natural Language Generation,” tutorial given at the 24th Annual Meeting of the Association for Computational Linguistics, Columbia University, New York, N.Y., June 1986.

“Tailoring Explanations for the User,” invited talk, University of Pennsylvania, Philadelphia, Pa., March 1985.

“Text Generation: What, when, and how,” invited talk, Cognitive Studies Series, Princeton University, Princeton, N.J., February 1985.

“Tailoring Explanations for the User,” ONR Contractor’s meeting, Georgia Technical Institute, Atlanta, Ga., January 1985.

Workshop on Language Generation, invited speaker, Stanford Univ., Stanford, Ca., Doug Appelt (organizer), July 1984.

Panel member of “Natural Language and Databases Again,” COLING 84, Stanford Univ., Stanford, Ca., July 1984.

“User-Oriented Language Generation,” invited talk, ACM SIGART local chapter, New York, N.Y., May 1984.

Workshop on Knowledge Representation and Explanation, invited participant, sponsored by ISI and BBN, Santa Barbara, Ca., October 1983.

“Natural Language Systems: How are they meeting human needs?”, invited talk, ACM Annual Conference, New York, N.Y., October 1983.

“Generating Natural Language Text in Response to Questions about Database Structure”, invited talk, American Society of Information Science Annual Conference, Doctoral Forum, Washington D.C., October 1983.

“Generating Natural Language Text in Response to Questions about Database Structure”, invited talk, IBM Systems Research Institute, New York, N.Y., Oct. 1982

Panel member of “Strategies for Explanation” panel and “Generation” panel, Explanation Workshop, sponsored by ISI and ONR, June 1982.

Panel member of “Text Generation” panel, Applied Computational Linguistics in Perspective Workshop, sponsored by ONR, June 1981, results appeared in April-June 1982 issue of the *American Journal of Computational Linguistics*.

Past and Current Research Support

Recent Funding:

- "Discovering and explaining technical emergence through analysis of the language and structure of scientific publications," Kathleen McKeown (PI), Michael Collins, Luis Gravano, Owen Rambow (Columbia University); Simone Teufel (Cambridge University), Bonnie Dorr, Kenneth Fleischman, Hal Daume (University of Maryland), Dragomir Radev (University of Michigan), Fei Xia (University of Washington), \$12,811,083, July 7, 2011 - July 6, 2016 (Four phases, with phases 2-4 options).
- "Predicting Power, Influence and Rifts in Social Groups Through Linguistic Analysis: A Study of English, Arabic, and Urdu," Kathleen McKeown, Mona Diab, Dragomir Radev, Owen Rambow, IARPA, \$672,472 (year 1) option for \$1,309,568 (Nov 2010 - Oct 2012). Option for year 2 approved.
- "Distillation for ROSETTA," Kathleen McKeown (Subcontract PI), subcontract to IBM, DARPA GALE, \$180,000, July 2009 - June 2011.
- "EAGER: Corpus-Based Narrative Semantics," Kathleen McKeown, NSF, \$253,888 total, July 1, 2009 - December 31st, 2010.
- "RI: Large: Collaborative Research: Richer Representations for Machine Translation," Kathleen McKeown, jointly with Martha Palmer (PI), Colorado University, Keving Knight, University of Southern California, Daniel Gildea, Rochester University, and Bert Nangwen, Brandeis University, \$593,045 (Columbia's portion), Sept. 1 2009 - Aug. 31st 2013.
- "Task-Embedded Machine Translation," Kathleen McKeown, sub-contract to IBM, DARPA GALE, \$107,149, 9/1/2009-5/31/2010.
- "Contextually Sensitive Semantic Relationships," Kathleen McKeown and Barry Schiffman, NGA HM1582-06-1-2015, \$119,058/year for 2 years, 09/08/06-09/07/08.
- "A Multimodal Interface for Generating Physician Notes," Steven Feiner, Kathleen McKeown, and Desmond Jordan, IBM, \$143,000/year for 3 years, Sept 1, 2006.
- "Text-to-Text Generation for Summarizing Informal Genres," Kathleen McKeown, NSF, \$300,000, Jan 2006 - Dec 2009.
- \$25,000, IBM Faculty Development Award, January 2005.
- \$20,000, Microsoft Research Gift, May 2005.
- "NIGHTINGALE: Novel Information Gathering and Harvesting Techniques", \$4,884,605, Kathleen McKeown, Julia Hirschberg and Dan Ellis, DARPA, September 1 2005 - August 31, 2010 (Evaluation milestones were met in year 1, grant was renewed for year 2. Renewal for Year 3 is dependent on meeting year 2 evaluation milestones).
- "Text Summarization: News and Beyond," DARPA, \$200,000, March 1 2005-August 31, 2005.
- "Tools for Monitoring Online Information Sources," Kathleen McKeown, Luis Gravano, Julia Hirschberg and Owen Rambow, NSF KDD program, \$1,795,000, renewed yearly June 1, 2002 - January 31, 2006.
- "Multilingual Multidocument Information Tracking and Summarization," Kathleen McKeown, Vasileios Hatzivassiloglou, Judith Klavans, DARPA, \$1,800,000, March 1, 2000 - February 28, 2005.
- "ITR/PE+SY: Mapping Meetings: Language Technology to make Sense of Human Interaction," Dan Ellis (Dept of Electrical Engineering) and Kathleen McKeown, \$269,904 (Columbia's subcontract), September 1, 2001 - August 31, 2005 (awarded to Univ of California at Berkeley, Nelson Morgan, PI, Univ of Washington, Mari Ostendorf, PI).
- "Question Answering - Phase II", Vasileios Hatzivassiloglou, Kathleen McKeown (Columbia University), Wayne Ward, Daniel Jurafsky (University of Colorado), ARDA AQUAINT, \$1,900,000, April, 2004-March 2006.
- "Question Answering", Vasileios Hatzivassiloglou, Kathleen McKeown (Columbia University), Wayne Ward, Daniel Jurafsky (University of Colorado), ARDA AQUAINT, \$1,800,000, November, 2001-November 2003.
- "A Patient Care Digital Library: Personalized Search and Summarization over Multimedia Information," Kathleen

McKeown, Shih-Fu Chang, James Cimino, George Hripcsak, and Judith Klavans, NSF, \$5,000,000, September 1, 1999 - August 31, 2004.

Classes Taught

W1001, Introduction to Computers, Department of Computer Science, Columbia University, Fall 1994 (40 students)

W4701, Artificial Intelligence, Department of Computer Science, Columbia University, Spring 2004 (55 students), Fall 2004 (39 students), Fall 2006 (45 students), Fall 2007 (68 students)

E6998 Section 3, Natural Language Processing for the Web, Department of Computer Science, Columbia University, Spring 2008 (21 students), Spring 2010 (16 students)

E6998-37, The Lexicon and Machine Translation, Department of Computer Science, Columbia University, Fall 1991 (9 students)

COMSW4705Y, Natural Language Processing, Department of Computer Science, Columbia University, Spring 1983, 1984, 1985 (50 students), 1986 (50 students), 1987 (80 students), 1988 (35 students), 1989 (30 students), 1990 (15 students), 1992 (15 students), Fall 1993 (14 students), Fall 1995 (25 students), Fall 1996 (15 students), Fall 1998 (40 students), Fall 2008 (52 students), Fall 2010 (29 students)

COMSW6901, Seminar in Language Generation, Department of Computer Science, Columbia University, Fall 1989 (4 students)

COMSW6901, Independent Study in Natural Language Processing, Department of Computer Science, Columbia University, Spring 1986 (2 students), Summer 1986 (2 students), Fall 1986 (3 students), Spring 1987 (3 students), Summer 1988 (2 students), Fall 1988 (5 students), Spring 1989 (7 students), Spring 1995 (3 students), Fall 1996 (3 students), Spring 1996 (2 students)

COMSW6999, Master's Thesis Research, Department of Computer Science, Columbia University, Fall 1986 (Michal Melamede, 3 credits), Spring 1987 (Michal Melamede, 6 credits), Fall 1988 (Christine Lombardi, 3 credits), Spring 1989 (Christine Lombardi, 3 credits, Yumiko Fukumoto, 3 credits)

COMSW1003, Introduction to Programming, Department of Computer Science, Columbia University, Fall 1982, Spring 1984

COMSW6901X, Projects in Natural Language (jointly with Michael Lebowitz), Department of Computer Science, Columbia University, Fall 1983

COMSW6741X, Seminar on Man-Machine Interaction: Interactive Dialog Systems, Department of Computer Science, Columbia University, Fall 1984

Departmental Service

- Co-organizer, Department of Computer Science Retreat, Fall 2010 (joint with Eitan Grinspun).
- Task Force on New Directions in Curriculum, Chair, 2006-2007.
- Academic Committee 2004-2005, 2006-2010.
- Strategic Planning Committee 2002-2005, 2009-2010..
- Co-Chair, CS 25th Anniversary, 2004.
- Senior Faculty Recruiting 1999-00.
- Internal Departmental Review Committee, 1999.
- Barnard advising, 1994-00.
- Member, Faculty Recruiting Committee, 1994-1995.
- Chair, Faculty Recruiting Committee, 1991-1992, 1992-1993, 1993-1994.
- Member, Chair Search Committee, 1993-1994.
- Contact, discussion of combined chair in Arts and Technology, 1993-1994.
- Member, Academic Committee, 1993.
- Member, Faculty Recruiting Committee, 1989, 1990.
- Member, PhD Committee, 1989, 1990, 1991, 1992.
- PhD Admissions committee, 1989-90.
- Scribe, community service records for department, 1989-90.
- Chair, Committee Committee, 1987-88.
- Appeals Committee, 1988.
- Qualifier Reform Committee, Spring 1987.
- Departmental Representative to Columbia College, 1985-86, 1986-87.
- Departmental Representative to General Studies, Spring 1987.
- Chairperson, AI qualifier committee, 1982 - present.
- Chairperson, Committee on BA curriculum reform, 1983-84.
- Participated in writing of NSF/STC proposal, fall 1987.
- Participating in writing of DARPA renewal contract for March 1987.
- Area committee: Jonathan Rynn, Nathaniel Polish, Galina Datskovsky Moerdler, Ursula Wolz, Daniel Yellin

- Thesis committee: Kenneth Wasserman 1986. Daniel Yellin, Jan. 1987, Tom Ellman, December 1989, Mark Loerner 1991, Nat Polish 1992, Phil Chan 1992, Alicia Abella 1993 (proposal) 1995 (defense), Rick Kjeldsen 1994.

University Service

- Member, Provost's Task Force on a Standing Committee for Tenure Review, 2010-2011.
- Member, Selection Committee for Columbia Graduate Student Teaching Award, 2007-2011.
- Outside reader, thesis defense committee, Sophie Guitte, Spring 2011.
- Member, University Task Force on Diversity in Science and Engineering, 2005-2007.
- Member, Committee on Undergraduate Program in Bio-Informatics, 2003-2005.
- Member, Provost's Committee on Intellectual Property Rights, 2000.
- Member, University Task Force on the Libraries, 1998-1999, 1999-2000.
- Chair, CRIA Research Committee, 1995-1997.
- Member, Dean Search Committee, 1994-1995.
- Faculty Affairs, 1993-1994.
- Task Force on Sexual Assault, 1994.
- Member, Columbia Univ. Senate Commission on the Status of Women, 1994-96.
- Chair, Columbia Univ. Senate Commission on the Status of Women, 1991-92, 1992-93, 1993-94.
- Senator, Univ. Senate, 1992-1994
- Speaker and Facilitator, Issues for Women, Columbia Univ. Forum on Diversity, Freshman Orientation, September 1992.
- Panelist, Career Night, Society of Women Engineers, October 1992.
- Spoke at Pre-freshman Orientation for Engineering Women, Society of Women Engineers, April 1988, April 1989.
- Thesis committee: Susan Alexander, Teachers College, spring 1994; Pamela Wolf, Teachers College, spring 1992; Peter Lochiel Glidden, Teachers College, spring 1987; Beth King, Teachers College, spring 1990.
- Organized AI Day, Spring 1987, attended by many departments of the University.
- Arranged for the 24th Annual Meeting of the Association for Computational Linguistics to be held at Columbia University in June 1986. This is a national organization and a well-known conference, with approximately 500 attending in June. Allowed Columbia University students and associates to easily attend conference. In addition, gave national recognition to Columbia as a sponsor of such a conference.
- Organized Cognitive Science Seminar Series jointly with Prof. Jim Corter, held jointly with Dept. of Psychology, Dept. of Philosophy, Dept. of Linguistics (Barnard), Dept. of Psychology (Teachers College), Spring 1985.
- Outside reader on the defense committee of Peter Ludlow, Dept. of Philosophy, Columbia College, Spring 1985.

- Outside reader on defense committee of Elizabeth M. Reiss, November 1983, Teachers College.
- Outside reader on defense committee of Thomas Eblen, Teachers College, 1984.

References