

Kathleen F. McCoy

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Research Interests

Artificial Intelligence, Natural Language Generation and Understanding, Discourse Phenomena, Rehabilitation Engineering, Augmentative Communication, Assistive Technology

Education

PhD in Dept. of Computer and Information Science, University of Pennsylvania, 1985.

Thesis title: "Correcting Object-Related Misconceptions".

Advisors: Aravind Joshi and Bonnie Webber.

MS in Computer and Information Science, University of Pennsylvania, 1982.

Thesis title: "The ENHANCE system: Creating Meaningful Sub-Types in a Database Knowledge Representation for Natural Language Generation".

Advisor: Aravind Joshi.

BS Magna Cum Laude in Computer and Information Sciences, University of Delaware, 1980.

Employment

September 2003-present Professor, Dept. of Computer and Information Sciences, University of Delaware, Newark, Delaware. Joint appointment in the Department of Linguistics.

May 2000-present Director, Center for Applied Science and Engineering in Rehabilitation (ASEL), University of Delaware.

September 1991-August 2003 Associate Professor, Dept. of Computer and Information Sciences, University of Delaware, Newark, Delaware. Joint appointment in the Department of Linguistics.

September 1998-August 1999 Visiting Scholar (on sabbatical), Institute for Research in Cognitive Science, University of Pennsylvania, Philadelphia, Pennsylvania.

Summers 1986-1998 Researcher, Applied Science and Engineering Laboratories, University of Delaware and the duPont Hospital for Children.

September 1991-August 1992 Researcher, Applied Science and Engineering Laboratories, University of Delaware and the A.I.duPont Institute (on sabbatical from Department of Computer and Information Sciences).

September 1985-August 1991 Assistant Professor, Dept. of Computer and Information Sciences, University of Delaware, Newark, Delaware. Joint appointment in the Department of Linguistics.

Professional Awards

University of Delaware Excellence in Teaching Award, May 1997.

University of Delaware Excellence in Advising Award, May 2001.

College of Arts and Science, University of Delaware, Outstanding Advisor Award, May 2003.

Professional Activities

Treasurer (and Member of Executive Committee): Association for Computational Linguistics, January 2001-December 2007.

Secretary Treasurer (and Member of Executive Committee): Association for Computational Linguistics, January 1998-2000.

Associate Secretary Treasurer: Association for Computational Linguistics, January 1997-1998.

Executive Committee Member: Association for Computational Linguistics, January 1995-1998.

Editorial Board: ACM Transactions on Accessible Computing (TACCESS) (2006-present)

Editorial Board: IEEE Intelligent Systems Magazine (2005-present)

Editorial Board: Computational Linguistics Journal 1993-1995.

Coordinator of Graduate Studies, Computer and Information Sciences Department, University of Delaware, July 1992 - July 1995.

Vice-Chair of Association of Computing Machinery Special Interest Group on Artificial Intelligence, July 1987 - 1989 and July 1989-1991.

Program Co-Chair, 11th International Conference on User Modeling (UM2007), Corfu, Greece, June 2007.

Workshop and Tutorial Co-chair for 10th International Conference on User Modeling (UM2005), Edinburgh, UK, July 2005.

Selected Recent Program Committees:

IASTED International Conference on Assistive Technologies, AT 2008. IJCNLP-08 - 3rd International Joint Conference on Natural Language Processing.

ALTW 2007: Australasian Language Technology Workshop 2007.

AAAI07 Special Track on AI and the Web, July, 2007.

Ninth International ACM SIGACCESS Conference on Computers and Accessibility, 2007 Australasian Language Technology Workshop (ALTW 2006)

COLING-ACL 2006

Eighth International ACM SIGACCESS Conference on Computers and Accessibility, 2006

The 2nd International Joint Conference on Natural Language Processing (IJCNLP-05)

2005 ACM Conference on Computers and Accessibility (ASSETS 2005)

User Modeling 2005 (UM2005)

6th International ACM Conference on Assistive Technologies (ASSETS 2004)

International Natural Language Generation Conference (INLG 2004)

IJCNLP-04, 1st International Joint Conference on Natural Language Processing, organized by the Asia Federation of Natural Language Processing.

EACL 2003 Workshop on Language Modeling for Text Entry Methods.

User Modeling 2003 (UM2003).

International Natural Language Generation Conference (INLG2000).

2000 Annual Meeting of the American Association for Artificial Intelligence (AAAI2000).

1999 European Workshop on Natural Language Generation.
1998 Int. Conf. on Natural Language Processing and Industrial Applications (NLP+IA'98).
AAAI-98 Workshop on Integrating Artificial Intelligence and Assistive Technology.
1998 International Conference on Intelligent User Interfaces (IUI98).
1997 Annual Meeting of the American Association for Artificial Intelligence.

Local Arrangements Co-Chair for the 1992, 30th Annual Meeting of the Association for Computational Linguistics, Newark, DE 19716.

Member of Scientific Review Committee for Assisted Communication, a special issue of the TAL (Traitement Automatique des Langues) Journal, 2007.

Journal Reviewer for (recent years):

ACM Transactions on Computer-Human Interaction (TOCHI)
Computer Speech and Language
International Journal of Human-Computer Studies
International Journal of Artificial Intelligence in Education
Journal of Artificial Intelligence Research
Journal of Natural Language Engineering
Journal of Speech Language and Hearing Research

NIH Center for Scientific Review Special Emphasis Panel Member, Developmental Disabilities Communications and Science Education, 11/2005 - 6/2006.

NIH, National Institute on Deafness and Other Communication Disorders Special Emphasis Panel, Translational Research, May 2007.

NSF Panel Reviewer, 2007.

Panel Reviewer for NSF (several different divisions/programs including NLP, Universal Access, SBIR, EHR/HRD, ITR).

Invited Participant/Speaker in CRA-W Graduate Student Cohort Program, February, 2005; March 2006; March 2007.

Participant in "Joining Forces: Spreading Successful Strategies" the 1995 Invitational Conference on Systemic Reform in Science Education, jointly sponsored by the National Science Foundation and the U.S. Department of Education.

Professional Organizations

ACL: Association for Computational Linguistics

AAAI: American Association for Artificial Intelligence

ACM (SIGAI and SIGACCESS): Association of Computing Machinery (Special Interest Group on Artificial Intelligence and Special Interest Group on Accessible Computing)

Cognitive Science Society

ISAAC: International Society for Augmentative and Alternative Communication (through USSAAC Chapter)

Publications

"User Modeling 2007, 11th International Conference, UM 2007, Corfu, Greece, June 2007, Proceedings", Cristina Conati, Kathleen McCoy, Georgios Paliouras (Eds.), LNAI 4511, Subseries of Lecture Notes in Computer Science, Springer-Verlag, Berlin Heidelberg, 2007.

- “The Effects of Word Predication on Communication Rate for AAC”, Keith Trnka, Debra Yarrington, John McCaw, Kathleen F. McCoy, and Christopher Pennington. *Proceedings of Human Language Technologies: The Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT-2007)*, (Late Breaking/Short Paper), Rochester, NY, April, 2007.
- “Brevity and Speed of Message Delivery Trade-offs in Augmentative and Alternative Communication”, Kathleen F. McCoy, Jan L. Bedrosian, Linda A. Hoag, and Dallas E. Johnson. *Augmentative and Alternative Communication Journal*, Volume 23, Number 1 (March 2007), pp. 76 - 88.
- “Capturing the Evolution of Grammatical Knowledge in a CALL System for Deaf Learners of English”, Lisa N. Michaud and Kathleen F. McCoy. *International Journal of Artificial Intelligence in Education (IJAIED)*, Volume 16, Number 1, pp. 65-97, 2006.
- “Topic Modeling in Fringe Word Prediction for AAC”, Keith Trnka, Debra Yarrington, Kathleen F. McCoy, and Christopher Pennington. In *Proceedings of the 2006 International Conference on Intelligent User Interfaces, IUI2006*, pp. 276 – 278, Sydney Australia, January, 2006.
- “A Model to Disambiguate Natural Language Parses on the Basis of User Language Proficiency; Design and Evaluation”, Lisa N. Michaud, Kathleen F. McCoy, and Rashida Z. Davis. *User Modeling and User Adapted Interaction*, Vol 15, No 1, pp. 55-84, March 2005.
- “Informativeness and Speed of Message Delivery Trade-offs in Augmentative and Alternative Communication”, Linda A. Hoag, Jan L. Bedrosian, Kathleen F. McCoy, and Dallas E. Johnson. *Journal of Speech, Language, and Hearing Research*, Vol 47, No. 6, pp. 1270-1285, December, 2004.
- “Empirical Derivation of a Sequence of User Stereotypes”, Lisa N. Michaud and Kathleen F. McCoy. *User Modeling and User Adapted Interaction*, Volume 14, No. 4, pp. 317-350, 2004.
- “Extending Document Summarization to Information Graphics”, Sandra Carberry, Kathleen McCoy, Daniel Chester, Stephanie Elzer, and Nancy Green. In *Proceedings of Text Summarization Branches Out*, Workshop at ACL 2004 (42nd Annual Meeting of the Association for Computational Linguistics), Forum Convention Centre, Barcelona, Spain, July, 2004.
- “Increasing High School Girls’ Self Confidence and Awareness of CS through a Positive Summer Experience”, Lori Pollock, Kathleen F. McCoy, Sandra Carberry, Namratha Hundigopal, Xiaoxin You. In *Proceedings of SIGSCE 2004, The 25th Technical Symposium on Computer Science Education*, Norfolk, Virginia, March, 2004.
- “Relevance and Speed of Message Delivery Trade-offs in Augmentative and Alternative Communication”, Jan L. Bedrosian, Linda A. Hoag, and Kathleen F. McCoy. *Journal of Speech, Language, and Hearing Research*, Vol 46, Issue 4, pp. 800–817, August, 2003.
- “Pragmatic Theory and Utterance-Based Systems: Application of the Cooperative Principle”, Kathleen F. McCoy (University of Delaware), Jan Bedrosian (Western Michigan University), Linda A. Hoag (Kansas State University). In *Perspectives on Theory and Practice in Augmentative and Alternative Communication*, Steven von Tetzchner and Mogens Hygum Jensen (eds), Proceedings of the Seventh Biennial Research Symposium of the International Society for Augmentative and Alternative Communication, Odense, Denmark, August 2002. Copyright 2003 ISAAC.
- “Generation of Single-Sentence Paraphrases from Predicate/Argument Structure using Lexico-Grammatical Resources”, Raymond Kozlowski, Kathleen F. McCoy, K. Vijay-Shanker.

- In *Proceedings of the The Second International Workshop on Paraphrasing: Paraphrase Acquisition and Applications*, pp. 1–8, an ACL-2003 Workshop, Sapporo, Japan, July 11, 2003.
- “Understanding Information Graphics: A Discourse-Level Problem”, Sandra Carberry, Stephanie Elzer, Nancy Green, Kathleen McCoy, and Daniel Chester. In *Proceedings of The 4th SIGdial Workshop on Discourse and Dialogue*, pp. 1–12, Sapporo, Japan, July 5-6, 2003.
- “Evaluating a Model to Disambiguate Natural Language Parses on the Basis of User Language Proficiency”, Lisa N. Michaud and Kathleen F. McCoy. In *User Modeling 2003, 9th International Conference, UM 2003, Johnstown, PA, USA, Jun 22-26, 2003, Proceedings*, Lecture Notes in Computer Science 2702, Peter Brusilovsky, Albert T. Corbett, and Fiorella de Rosis (eds), pp. 96–105, Springer, 2003.
- “Plan Inference from Information Graphics”, Stephanie Elzer, Nancy Green, Sandra Carberry, and Kathleen F. McCoy. In *User Modeling 2003, 9th International Conference, UM 2003, Johnstown, PA, USA, Jun 22-26, 2003, Proceedings*, Lecture Notes in Computer Science 2702, Peter Brusilovsky, Albert T. Corbett, and Fiorella de Rosis (eds), pp. 122–132, Springer, Lecture Notes in Computer Science, 2003.
- “Efficiently Computed Lexical Chains As an Intermediate Representation for Automatic Text Summarization”, H. Gregory Silber and Kathleen F. McCoy. *Computational Linguistics*, 28(4), pp. 487–496, December, 2002.
- “Selectional Restrictions in Natural Language Sentence Generation”, Raymond Kozlowski, Kathleen F. McCoy, K. Vijay-Shanker. In *Proceedings of the Sixth World Multi-Conference on Systemics, Cybernetics, and Informatics*, Volume XI, pp. 127–132, SCI 2002, Orlando, Florida, July 14 - 18, 2002.
- “Pragmatic Trade-offs in Utterance-Based Systems: Uncovering Technological Implications”, Kathleen F. McCoy, Jan L. Bedrosian, and Linda A. Hoag. *ASHA (American Speech-Language-Hearing Association), Division 12 Newsletter*, pp. 23–29, December, 2001. Guest Editor: Jeff Higginbotham.
- “Towards Generating Textual Summaries of Graphs”, Kathleen F. McCoy, M. Sandra Carberry, Tom Roper and Nancy Green. In *Proceedings of the 1st International Conference on Universal Access in Human-Computer Interaction*, pp. 695–699, New Orleans, LA, USA, August 5-10, 2001.
- “Modeling the Acquisition of English: an Intelligent CALL Approach”, Lisa N. Michaud, Kathleen F. McCoy, and Litza A. Stark. In *User Modeling 2001, 8th International Conference, UM 2001, Sothofen, Germany, July 13-17, 2001, Proceedings*, Lecture Notes in Computer Science 2109, Mathias Bauer, Piotr J. Gmytrasiewicz, and Julita Vassileva (eds.), pp. 14–23, Springer, 2001. Nominated for best paper award.
- “Error Profiling: Toward a Model of English Acquisition for Deaf Learners”, Lisa N. Michaud and Kathleen F. McCoy. In *Proceedings of the 39th Annual Meeting of the Association for Computational Linguistics*, ACL 2001, pp. 386–393, Toulouse, France, July 5-11, 2001.
- “An Intelligent Tutoring System for Deaf Learners of Written English”, Lisa N. Michaud, Kathleen F. McCoy, and Christopher A. Pennington. In *Proceedings of The Fourth Annual International ACM/SIGCAPH Conference on Assistive Technologies*, ASSETS 2000, pp. 92–100, Washington, DC, November, 2000.
- “An Investigation of Grice’s cooperative principle: Application to AAC”, Jan Bedrosian, Linda Hoag, Kathleen McCoy, Christopher Pennington, and Richard Wright. In *Proceedings of the Ninth Biennial Conference of the International Society for Augmentative and Alternative Communication*, ISAAC 2000, pp. 708–710, Washington, DC, August, 2000.

- “An Efficient Text Summarizer Using Lexical Chains”, H. Gregory Silber and Kathleen F. McCoy. In *Proceedings of the First International Conference on Natural Language Generation, INLG'2000*, pp. 268–271, Mitzpe Ramon, Israel, June, 2000.
- “Supporting Intelligent Tutoring in CALL by Modeling the User’s Grammar”, Lisa N. Michaud and Kathleen F. McCoy. In *Proceedings of the 13th International FLAIRS Conference*, Florida Artificial Intelligence Research Society Annual Conference, pp. 50–54, Orlando, Florida, May, 2000.
- “Efficient Text Summarization Using Lexical Chains”, H. Gregory Silber and Kathleen F. McCoy. In *Proceedings of the International Conference on Intelligent User Interfaces, IUI2000*, pp. 252–255, New Orleans, January, 2000.
- “Taking Time to Structure Discourse: Pronoun Generation Beyond Accessibility”, Kathleen F. McCoy and Michael Strube. In *Proceedings of the 21st Annual Conference of the Cognitive Science Society, CogSci '99*, pp. 378–383, Vancouver, British Columbia, Canada, Aug. 19-21, 1999.
- “A Methodology for Extending Focusing Frameworks”, Linda Z. Suri, Kathleen F. McCoy, and Jonathan D. DeCristofaro. *Computational Linguistics*, pp. 173–194, 25(2), June, 1999.
- “Generating Anaphoric Expressions: Pronoun or Definite Description?”, Kathleen F. McCoy and Michael Strube. In *The The Relation of Discourse/Dialogue Structure and Reference, Proceedings of the Workshop*, held in Conjunction with the 38th Annual Meeting of the Association for Computational Linguistics, Dan Cristea, Nancy Ide, and Daniel Marcu (eds), pp. 63–71, University of Maryland, College Park, MD, USA, June 21, 1999.
- “Building a Tool for Annotating Reference in Discourse”, Jonathan DeCristofaro, Michael Strube, and Kathleen F. McCoy. In *The The Relation of Discourse/Dialogue Structure and Reference, Proceedings of the Workshop*, held in Conjunction with the 38th Annual Meeting of the Association for Computational Linguistics, Dan Cristea, Nancy Ide, and Daniel Marcu (eds), pp. 54–62, University of Maryland, College Park, MD, USA, June 21, 1999.
- “Modeling User Language Proficiency in a Writing Tutor for Deaf Learners of English”, Lisa N. Michaud and Kathleen F. McCoy. In *Proceedings of the Symposium on Computer-Mediated Language Assessment and Evaluation in Natural Language Processing, an ACL-IALL Workshop*, pp. 47–54, University of Maryland, College Park, Maryland, USA, June 22, 1999.
- “The Role of Evaluation in Bringing NLP to AAC: A Case to Consider”, Kathleen F. McCoy and Dave Hershberger. In *Augmentative and Alternative Communication: New Directions in Research and Practice*, Filip T. Loncke, John Clibbens, Helen H. Arvidson, and Lyle L. Lloyd, Editors. Whurr Publishers, Ltd., London, pp. 105–122, 1999.
- “Recognizing Syntactic Errors in the Writing of Second Language Learners”, David Schneider and Kathleen F. McCoy. In *Proceedings of Coling-ACL-98*, Universite de Montreal, Montreal, pp. 1198–1204, Quebec, Canada, August 10-14, 1998.
- “Planning Tutorial Text in a System for Teaching English as a Second Language to Deaf Learners”, Lisa N. Michaud and Kathleen F. McCoy. In *1998 AAAI Workshop on Integrating Artificial Intelligence and Assistive Technology*, pp. 32–39, Madison, Wisconsin, July 1998.
- “Important Issues for Effectively Using Prestored Text in Augmentative Communication”, Christopher A. Pennington, Kathleen F. McCoy, Jan L. Bedrosian, and Linda A. Hoag. In *1998 AAAI Workshop on Integrating Artificial Intelligence and Assistive Technology*, pp. 48–54, Madison, Wisconsin, July 1998.

- “Compansion: From Research Prototype to Practical Integration”, Kathleen F. McCoy, Christopher A. Pennington, and Arlene Luberoff Badman. *Natural Language Engineering*, Volume 4, Part 1, pp. 73–95, March, 1998.
- “Interface and Language Issues in Intelligent Systems for People with Disabilities”, Kathleen F. McCoy. In *Assistive Technology and Artificial Intelligence: Applications in Robotics, User Interfaces and Natural Language Processing*, Vibhu Mittal, Holly Yanco, John Aronis, and Richard Simpson, Editors. Volume 1458, Lecture Notes in AI Series, pp. 1–11, Springer, 1998.
- “Providing Intelligent Language Feedback for Augmentative Communication Users”, Christopher A. Pennington and Kathleen F. McCoy. In *Assistive Technology and Artificial Intelligence: Applications in Robotics, User Interfaces and Natural Language Processing*, Vibhu Mittal, Holly Yanco, John Aronis, and Richard Simpson, Editors. Volume 1458, Lecture Notes in AI Series, pp. 59–72, Springer, 1998.
- “A Tutor for Teaching English as a Second Language for Deaf Users of American Sign Language”, Kathleen F. McCoy and Lisa N. Masterman. In *Proceedings of Natural Language Processing for Communication Aids, an ACL/EACL’97 Workshop*, pp. 47–54, Madrid, Spain, July 12th, 1997.
- “Simple NLP Techniques for Expanding Telegraphic Sentences”, Kathleen F. McCoy. In *Proceedings of Natural Language Processing for Communication Aids, an ACL/EACL’97 Workshop*, pp. 17–22, Madrid, Spain, July 12th, 1997.
- “A Communication Aid with Artificial Intelligence: Communic-Ease Meets Semantic Parsing”, Kathleen F. McCoy, Christopher A. Pennington, and Arlene Luberoff Badman. In *Proceedings of RESNA ’97 20th Annual Conference*, pp. 45–47, Pittsburgh, PA, June, 1997.
- “Schema-Based Organization of Reusable Text in AAC: User-Interface Considerations”, Terry L. Carpenter Jr., Kathleen F. McCoy, and Christopher A. Pennington. In *Proceedings of RESNA ’97 20th Annual Conference*, pp. 57–59, Pittsburgh, PA, June, 1997.
- “Some Interface Issues in Developing Intelligent Communication Aids for People with Disabilities”, Kathleen F. McCoy, Patrick W. Demasco, Christopher A. Pennington, and Arlene Luberoff Badman. In *Proceedings of the 1997 International Conference on Intelligent User Interfaces, IUI97*, pp. 163–170, Orlando, Florida, January, 1997.
- “The Intelligent Parser Generator: An Intelligent Language Aid for People with Cognitive Impairments”, Kathleen F. McCoy, Patrick Demasco, John Gray, Christopher A. Pennington, Marjeta Cedilnik, Arlene Luberoff Badman, and Clifford Kushler. In *Proceedings of the 1996 AAAI Fall Symposium on Developing Assistive Technology for People with Disabilities*, pp. 70–77, MIT, Cambridge, MA, November, 1996.
- “A Writing Tool for Users of American Sign Language”, Kathleen F. McCoy, Christopher A. Pennington, and Linda Z. Suri. In *Proceedings of the 1996 AAAI Fall Symposium on Developing Assistive Technology for People with Disabilities*, pp. 78–85, MIT, Cambridge, MA, November, 1996.
- “A Communication Aid Enhanced with Semantic Parsing”, Cliff Kushler, Arlene Badman, Patrick Demasco, and Kathleen F. McCoy. In *Proceedings of the 7th Biennial Conference of the International Society for Augmentative and Alternative Communication*, August 1996.
- “A Preliminary Study into Schema-Based Access and Organization of Reusable Text in AAC”, Peter B. Vanderheyden, Patrick W. Demasco, Kathleen F. McCoy, and Christopher A. Pennington. In *Proceedings of RESNA ’96 19th Annual Conference*, pp. 59–61, June 1996.

- “Considering the Effects of Second Language Learning on Generation”, Kathleen F. McCoy, Christopher A. Pennington, and Linda Z. Suri. In *Proceedings of the 8th International Natural Language Generation Workshop*, pp. 71–80, Herstmonceux Castle, Sussex, UK, June, 1996.
- “English Error Correction: A Syntactic User Model Based on Principled ‘Mal-Rule’ Scoring”, Kathleen F. McCoy, Christopher Pennington, Linda Z. Suri. In *Proceedings of the Fifth International Conference on User Modeling*, pp. 59–66, Kailua-Kona, Hawaii, January, 1996. Awarded Conference Best Paper Prize.
- “Some Applications of Natural Language Processing to the Field of Augmentative and Alternative Communication”, Kathleen F. McCoy and Patrick Demasco. In *Proceedings of the IJCAI-95 Workshop on Developing AI Applications for People with Disabilities*, pp. 79–112, Montreal, Canada, August, 1995.
- “A Lexical Database for Intelligent AAC Systems”, Wendy M. Zickus, Kathleen F. McCoy, Patrick W. Demasco, and Christopher A. Pennington. In *Proceedings of RESNA ’95 18th Annual Conference*, pp. 124–126, Vancouver, B.C., June 1995.
- “A Methodology for Extending Focusing Frameworks”, Linda Z. Suri and Kathleen F. McCoy. In *Proceedings of the 1995 AAAI Spring Symposium on Empirical Methods in Discourse*, pp. 149–155, Stanford University, CA., March, 1995.
- “A Communication Tool for People with Disabilities: Lexical Semantics for Filling in the Pieces”, Kathleen F. McCoy, Patrick W. Demasco, Mark A. Jones, Christopher A. Pennington, Peter B. Vanderheyden, Wendy M. Zickus. In *Proceedings of The First Annual International ACM/SIGCAPH Conference on Assistive Technologies, ASSETS ’94*, pp. 107–114, Los Angeles, CA, 1994.
- “RAFT/RAPR and Centering: A Comparison and Discussion of Problems Related to Processing Complex Sentences”, Linda Z. Suri and Kathleen F. McCoy. *Computational Linguistics*, Vol. 20, No. 2, Squibs and Discussions, pp. 301–317, June, 1994.
- “AAC-User Therapist Interactions: Preliminary Linguistic Observations and Implications for COMPANSION”, Kathleen F. McCoy, Wendy M. McKnitt, Denise M. Peischl, Christopher A. Pennington, Peter B. Vanderheydan, Patrick W. Demasco. In *Proceedings of RESNA ’94 17th Annual Conference*, pp. 129–131, Nashville, Tennessee, June, 1994.
- “Developing AAC Systems that Model Intelligent Partner Interactions: Methodological Considerations”. Peter B. Vanderheyden, Christopher A. Pennington, Denise M. Peischl, Wendy M. McKnitt, Kathleen F. McCoy, Patrick W. Demasco, Hans van Balkom, Harry Kanphuis. In *Proceedings of RESNA ’94 17th Annual Conference*, pp. 126–128, Nashville, Tennessee, June, 1994.
- “Correcting Discourse-Level Errors in a CALL System for Second Language Learners”, Linda Z. Suri and Kathleen F. McCoy. *Computer Assisted Language Learning*, 6(3), pp. 215–231, 1993.
- “Observations and Directions in Text Structure”, John Hughes and Kathleen F. McCoy. In *Proceedings of the ACL Workshop on Intentionality and Structure in Discourse Relations*, at 31st Annual Meeting of the ACL, Ohio State University, 4 pages, June, 1993.
- “Focusing and Pronoun Resolution in Particular Kinds of Complex Sentences”, Linda Z. Suri and Kathleen F. McCoy. In *Proceedings of the Workshop on Centering Theory in Naturally-Occurring Discourse*, 8 pages, Institute for Research in Cognitive Science, University of Pennsylvania, May, 1993.

- “Comparing Local Focusing and Centering”, Linda Z. Suri and Kathleen F. McCoy. In *Proceedings of the Workshop on Centering Theory in Naturally-Occurring Discourse*, 8 pages, Institute for Research in Cognitive Science, University of Pennsylvania, May, 1993.
- “Transparently-Motivated Metaphor Generation”, Mark Jones and Kathleen F. McCoy. In *Aspects of Automated Natural Language Generation, 6th International Workshop on Natural Language Generation, Trento, Italy, April 1992, Proceedings*, R. Dale, E. Hovy, D. Rosner, O. Stock (Eds.), Springer-Verlag, Berlin, Heidelberg, pp. 231–246, 1992.
- “A Functional Approach to Generation with TAG”, Kathleen F. McCoy, K. Vijay-Shanker, Gijoo Yang. In *Proceedings of the 30th Annual Meeting of the Association for Computational Linguistics*, pp. 48–55, University of Delaware, Newark, DE, 1992.
- “The Problem of Metaphor in Intelligent AAC Systems”, Mark Jones, Kathleen McCoy, and Patrick Demasco. In *Proceedings of RESNA '92 15th Annual Conference*, pp. 363–365, Montreal, Canada, 1992.
- “Generating Text From Compressed Input: An Intelligent Interface for People with Severe Motor Impairments”, Patrick Demasco and Kathleen F. McCoy. *Communications of the ACM*, 35(5), pp. 68–78, May, 1992.
- “From functional specification to syntactic structures: Systemic grammar and tree-adjoining grammars”, Gijoo Yang, Kathleen F. McCoy, and K. Vijay-Shanker. *Computational Intelligence*, 7(4) – Special Issue on Natural Language Generation, pp. 207–219, 1991.
- “Capturing high-level structure of naturally-occurring, extended explanations using bottom-up strategies”, David J. Mooney, M. Sandra Carberry and Kathleen F. McCoy. *Computational Intelligence*, 7(4) – Special Issue on Natural Language Generation, pp. 334–356, 1991.
- “Focus of Attention: Constraining What Can Be Said Next”, Kathleen F. McCoy and Jeannette Cheng. In *Natural Language Generation in Artificial Intelligence and Computational Linguistics*, Cecile L. Paris, William R. Swartout, and William C. Mann, Editors, Kluwer Academic Publishers, pp. 103–124, 1991.
- “Knowledge Representation Considerations for a Domain Independent Semantic Parser”, Mark Jones, Patrick Demasco, Kathleen McCoy, and Christopher Pennington. In *Proceedings of RESNA '91 14th Annual Conference*, pp. 109–111, Kansas City, MO, 1991.
- “Automatic Abbreviation Generation”, Gregg M. Stum, Patrick W. Demasco, and Kathleen F. McCoy. In *Proceedings of RESNA '91 14th Annual Conference*, pp. 97–99, Kansas City, MO, 1991.
- “Vocabulary Selection for Intelligent Parsing in an AAC System for Aphasics”, Bruce R. Baker, Kathleen McCoy, Sheela Stuart, Eric H. Nyberg 3rd. In *Proceedings of RESNA '91 14th Annual Conference*, pp. 112–114, Kansas City, MO, 1991.
- “The Need for Bottom-up Strategies for Generating High-level Structure”, David Mooney, Sandra Carberry, and Kathleen McCoy. In *Proceedings of the AAAI-91 Workshop on Comparative Analysis of Explanation Planning Architectures*, pp. 53–64, Anaheim, CA, July, 1991.
- “Applying Natural Language Processing Techniques To Augmentative Communication Systems”, Kathleen F. McCoy, Patrick Demasco, Mark Jones, Christopher Pennington, and Charles Rowe. In *Proceedings of the 13th International Conference on Computational Linguistics, COLING90, Helsinki, Finland, August, 1990*.

- “The Generation of High-Level Structure For Extended Explanations”, David J. Mooney, Sandra Carberry, and Kathleen F. McCoy. In *Proceedings of the 13th International Conference on Computational Linguistics*, COLING90, Helsinki, Finland, August, 1990.
- “The Basic Block Model of Extended Explanations: an Overview”, David J. Mooney, Sandra Carberry, Kathleen F. McCoy. In *Proceedings of the AAAI-90 Workshop on Explanation Generation*, July, 1990.
- “Using Tree Adjoining Grammars in the Systemic Framework”, Kathleen F. McCoy, K. Vijay-Shanker, Gijoo Yang. In *Proceedings of the Fifth International Workshop on Natural Language Generation*, Dawson, Pa, June, 1990.
- “The Basic Block Model of Extended Explanations”, David J. Mooney, Sandra Carberry, Kathleen F. McCoy. In *Proceedings of the Fifth International Workshop on Natural Language Generation*, Dawson, Pa, June, 1990.
- “Iconic Interfaces in Intelligent AAC Systems”, Bruce Baker, Eric H. Nyberg, Kathleen F. McCoy, Patrick Demasco. In *Proceedings of RESNA '90 13th Annual Conference*, Washington, D.C., June, 1990.
- “Intelligent AAC Systems: What Can Be Done Now?”, Kathleen F. McCoy, Eric H. Nyberg, Bruce Baker. In *Proceedings of RESNA '90 13th Annual Conference*, Washington, D.C., June, 1990.
- “A Domain Independent Semantic Parser for COMPANSION”, Kathleen F. McCoy, Patrick Demasco, Mark Jones, Christopher Pennington, Charles Rowe. In *Proceedings of RESNA '90 13th Annual Conference*, Washington, D.C., June, 1990.
- “Word Prediction Using a Systemic Tree Adjoining Grammar”, Gijoo Yang, Kathleen F. McCoy, Patrick Demasco. In *Proceedings of RESNA '90 13th Annual Conference*, Washington, D.C., June, 1990.
- “Generating Context Sensitive Responses to Object-Related Misconceptions”, Kathleen F. McCoy. *Artificial Intelligence*, Vol 41, pp. 157–195, 1989.
- “Highlighting a User Model to Respond to Misconceptions”, Kathleen F. McCoy. In *User Models in Dialog Systems*, Alfred Kobsa and Wolfgang Wahlster, editors, Springer Verlag Publishers, 1989.
- “Focusing Your RST: A Step Toward Generating Coherent Multisentential Text”, Eduard Hovy and Kathleen F. McCoy. In *Proceedings of the 11th Annual Meeting of the Cognitive Science Society*, Ann Arbor, MI, August, 1989.
- “A Semantic Parser for Understanding Ill-Formed Input”, Kathleen F. McCoy, Patrick Demasco, Yu Gong, Christopher Pennington, and Charles Rowe. In *Proceedings of the 12th Annual RESNA Conference*, New Orleans, LA, June 25-30, 1989.
- “Toward a Communication Device which Generates Sentences”, Kathleen F. McCoy, Patrick Demasco, Yu Gong, Christopher Pennington, and Charles Rowe. In *Proceedings of the 12th Annual RESNA Conference*, New Orleans, LA, June 25-30, 1989.
- “Towards More Intelligent AAC Interfaces: The Use of Natural Language Processing”, Patrick Demasco, Kathleen F. McCoy, Yu Gong, Christopher Pennington, and Charles Rowe. In *Proceedings of the 12th Annual RESNA Conference*, New Orleans, LA, June 25-30, 1989.
- “Word COMPANSION: Allowing Dynamic Word Abbreviations”, Patrick Demasco, Matthew Lillard, and Kathleen F. McCoy. In *Proceedings of the 12th Annual RESNA Conference*, New Orleans, LA, June 25-30, 1989.

- “Reasoning on a Highlighted User Model to Respond to Misconceptions”, Kathleen F. McCoy. *Computational Linguistics*, Special Issue in User Modeling, Vol 14, Number 3, pp. 52–63, September, 1988.
- “Contextual Effects on Responses to Misconceptions”, Kathleen F. McCoy. In *Natural language generation: New results in Artificial Intelligence, Psychology, and Linguistics*, Gerrard Kempen, editor, Dordrecht/Boston: Martinus Nijhoff Publishers (Kluwer Academic Publishers), 1987.
- “Generating Responses to Property Misconceptions Using Perspective”, Kathleen F. McCoy. In *Communication Failure in Dialogue and Discourse*, Ronan Reilly, editor, North Holland, 1987.
- “The ROMPER System: Responding to Object-Related Misconceptions using Perspective”, Kathleen F. McCoy. In *Proceedings of the 24th Annual Meeting of the Association for Computational Linguistics*, Columbia University, New York, June, 1986.
- “The Role of Perspective in Responding to Property Misconceptions”, Kathleen F. McCoy. In *Proceedings of the Ninth International Joint Conference on Artificial Intelligence*, pp. 791–793, Los Angeles, Ca., August 18-23, 1985.
- “Misconception Responses That Change With Context: the Role of Object Perspective”, Kathleen F. McCoy. In *Proceedings of The First Conference on Artificial Intelligence Applications*, Denver, Colorado, December 5-7, 1984.
- “Correcting Object-Related Misconceptions: How Should The System Respond?”, Kathleen F. McCoy. In *Proceedings of Coling84*, Stanford University, Stanford, Ca., July 2-6, 1984.
- “Correcting Misconceptions: What to Say When the User is Mistaken”, Kathleen F. McCoy. In *Proceedings of CHI’83 Conference on Human Factors in Computing Systems*, Boston, Ma., December 1983.
- “Augmenting a Database Knowledge Representation for Natural Language Generation”, Kathleen F. McCoy. In *Proceeding of the 20th Annual Meeting of the ACL*, Toronto, Canada, June 1982.

External Support

- Department of Health and Human Services, National Institutes of Health, National Institute on Deafness and Other Communication Disorders, Grant Number: (Competing Continuation), “Communicative Competence and the Use of Prestored Text”. PI: Jan L. Bedrosian (Western Michigan University), Co-PI’s: Linda A. Hoag and Kathleen F. McCoy. 09/01/2005 – 08/31/2008, \$996,858 (expected). UD subcontract amount approx. \$170,000.
- U.S. Department of Education, National Institute on Disability and Rehabilitation Research, Award Number: H133G040051, “Enhancing AAC Communication through Improved Access to Fringe Vocabulary Words”, PI: Kathleen F. McCoy, co-PI’s: Rupal Patel (Northeastern University) and Christopher A. Pennington (AgoraNet Inc.). 11/01/2004 – 10/31/2007 (expected), \$449,975.
- Department of Health and Human Services, National Institutes of Health, National Institute on Deafness and Other Communication Disorders, Grant Number: 1-R01-DC03670-01A3, “Communicative Competence and the Use of Prestored Text”. PI: Jan L. Bedrosian (Western Michigan University), Co-PI’s: Linda A. Hoag and Kathleen F. McCoy. 02/01/2001 – 01/31/2005, \$826,100.

Program for Gender Equity in Science, Engineering, and Technology, EHR/Human Resource Development, National Science Foundation, Award Number HRD-0086424, “SEP – An Experiment in Engaging High School and Undergraduate Women in Computer Science”, PI: Lori L. Pollock, Co-PI’s: M. Sandra Carberry and Kathleen F. McCoy. 1/1/2001 – 6/30/2002, \$99,992.

NSF Division of Information and Intelligent Systems, Universal Access Program, Award Number: IIS-9978021, “Investigating Multi-Modality Tutoring: Toward Computer-Based Written English Support for Deaf Children”. PI: Kathleen F. McCoy, Co-PI: Christopher A. Pennington. 8/15/99 – 7/31/2003, \$447,224.

Korean Government Ministry of Science and Technology, “Development of a Bilingual Internet Search Machine”, a subcontract on project awarded to Gijoo Yang at Dongguk University. 30,000,000 won (approximately \$25,000) for October 1997-September 2000. Principle investigator: Kathleen F. McCoy.

Dept. of Health and Human Services Public Health Service Small Business Research Program, Phase I Grant, “A Communication Aid Enhanced with Semantic Parsing”, in conjunction with the Prentke Romich Company. September 30, 1995-September 29, 1996. Subcontract amount \$39,923. Co-PI’s: Patrick Demasco and Kathleen F. McCoy.

NSF Interactive Systems Program, Award Number: IRI-9416916, “An Exploratory System to Teach English as a Second Language to Deaf Students with American Sign Language Competency”, April 1995-September 1999, amount \$239,772. Principle investigator: Kathleen F. McCoy. Amount includes the following supplements:

1. Research Opportunities for Undergraduates, June 1998-September 1999, supplement amount \$10,500.
 2. Research Opportunities for Undergraduates, June 1997-March 1998, supplement amount \$5,250.
 3. Research Opportunities for Undergraduates, June 1996-March 1998, supplement amount \$5,250.
- A short description of this NSF-funded project was included in the *Frontiers Newsletter of the National Science Foundation*, November/December 1998, in an article titled “Adaptive Technologies Encourage Independent Learning”.

NSF Award Number: GER-9354869, “NSF Traineeships in Natural Language Human-Computer Interfaces (TARGETED AREA) Computer Science: Human-computer Interface”, Funded for \$564,500, 9/94-1/01. Co-PI’s: Sandra Carberry, Kathleen F. McCoy, and K. Vijayashanker. Amount includes supplement supplement of \$6,500, May 1997 - August 1997, for traineeship foreign travel for summer internship. Co-PI’s: Sandra Carberry, Kathleen F. McCoy, and K. Vijayashanker.

NSF Division of Information Robotics and Intelligent Systems, Research Initiation Award, Award Number 9010112, “Natural Language Processing Principles for Improving Deaf Writing”, September 1990 to August 1992, amount \$45,371. Principle investigator: Kathleen F. McCoy.

University of Delaware Research Foundation Grant entitled “Contextual Effects on a Knowledge Base: Choosing an Active Perspective”, from January 1987 to June 1988, amount \$12,000. Principle Investigator: Kathleen F. McCoy.

NSF Division of Computer Research, Computer Research Equipment Grant, 1987. Co-principle investigators: Dan Chester and Sandra Carberry, \$54,398.

External Support – to Association for Computational Linguistics

NSF Division of Information and Intelligent Systems, Human Computer Interaction Program, Award Number: IIS-6034984, Workshop Proposal for NAACL-2001 Student Research Workshop, May 2001 to May 2002, amount \$9,610.

Selected (Recent) Invited Talks

“NLP and Learner Modeling for ICALL”, Pre-Workshop Course at Workshop on Interfaces of Intelligent Computer-Assisted Language Learning (IICALL 2006), The Ohio State University, December 14-17, 2006.

“Context Aware Word Prediction in Communication Aids for People with Disabilities”, Columbia University, January, 2006.

“Centering and Pronoun Resolution”, Graduate Seminar on Discourse Structure, University of Pennsylvania, February, 2005.

Tutorials and Seminars

“Natural Language Generation”, Kathleen F. McCoy and Johanna D. Moore, Tutorial at the Tenth National Conference on Artificial Intelligence, San Jose, CA, 1992.

“Natural Language Generation”, Kathleen F. McCoy and Johanna D. Moore, Tutorial at the 1991 Meeting of the Association for Computational Linguistics, Berkeley CA, 1991.

“Natural Language Processing Techniques in Augmentative Communication” with Patrick Demasco. Part of the RESNA Instructional program at the 12th Annual Conference, June 25-30, New Orleans, Louisiana, 1989.

Selected Presentations

“Evidence-Based Practice and AAC Technology Design and Development”, Jan Bedrosian, Linda Hoag, Kathleen McCoy, Nicole Nieboer, Meghan Osgood, and Jennifer Wood. Poster presentation at Evidence Based Decision-Making in AAC, the 8th Annual Conference of the ASHA Division on AAC (DAAC), Atlanta, GA, February, 2007.

“Trade-offs Between Redundancy and Speed of Message Delivery in AAC”, Kathleen McCoy, Jan Bedrosian, and Linda Hoag. Poster presentation at 12th Biennial International Conference of the International Society for Augmentative and Alternative Communication (ISAAC2006), July 29th - August 5th, 2006, Dosseldorf, Germany.

“Hierarchy of Conversational Maxim Violations in AAC Using Utterance-based Technology”, Linda Hoag, Kathleen McCoy, and Jan Bedrosian. Poster presentation at 12th Biennial International Conference of the International Society for Augmentative and Alternative Communication (ISAAC2006), July 29th - August 5th, 2006, Dosseldorf, Germany.

“Topic Modeling in Fringe Word Prediction for AAC”, Keith Trnka, Debra Yarrington, Kathleen McCoy, and Christopher Pennington. Poster presentation at 12th Biennial International Conference of the International Society for Augmentative and Alternative Communication (ISAAC2006), July 29th - August 5th, 2006, Dosseldorf, Germany.

- “Handicap Visibility & Responses to Conversational Rule Violations”, Linda A. Hoag, Jan L. Bedrosian, and Kathleen F. McCoy. Poster presented at the American Speech-Language-Hearing Association (ASHA) Annual Convention, San Diego, CA, November, 2005.
- “A Hierarchy of Conversational Trade-off Choices Involving Utterance-Based Augmentative and Alternative Communication Systems”, Kathleen F. McCoy, Jan L. Bedrosian, Linda Hoag. Poster presented at the American Speech-Language-Hearing Association (ASHA) Convention, Philadelphia, PA, November, 2004.
- “Redundancy and Speed of Message Delivery Trade-Offs in AAC”, Kathleen F. McCoy, Linda A. Hoag, and Jan L. Bedrosian. Poster presented at the American Speech-Language-Hearing Association (ASHA) Convention, Chicago, IL., November, 2003.
- “Trade-Offs Between Informativeness and Speed of Message Delivery in AAC”, Linda A. Hoag, Jan L. Bedrosian, and Kathleen F. McCoy. Poster presented at the American Speech-Language-Hearing Association (ASHA) Convention, Atlanta, GA., November, 2002.
- “Pragmatic Theory and Utterance-Based Systems”, Kathleen F. McCoy (University of Delaware), Jan Bedrosian (Western Michigan University), Linda A. Hoag (Kansas State University). Invited paper presented at the Seventh Biennial ISAAC Research Symposium, Theme: Constructing Theoretical Models of Augmentative and Alternative Communication, Moderators: Gregor Renner and Dorothea Lage. Odense Teacher College, Odense, Denmark, August 16-17, 2002.
- “Communication Rate and the Use of Utterance-Based Technology”, Jan Bedrosian (Western Michigan University), Linda A Hoag (Kansas State University), Kathleen F. McCoy (University of Delaware), and Jeff Higginbotham (State University of New York at Buffalo). Seminar presented at ISAAC-2002, the 10th International Conference of the International Society of Augmentative and Alternative Communication, Odense, Denmark, August 10-15, 2002.
- “Rate of Communication and the Use of Utterance-Based Technology”, Linda A Hoag (Kansas State University), Jan Bedrosian (Western Michigan University), Kathleen McCoy (University of Delaware), Jeff Higginbotham (State University of New York at Buffalo), and Jennifer Cornish (State University of New York at Buffalo). Seminar presented at the American Speech-Language-Hearing Association Convention, New Orleans, LA., November, 2001.
- “Examination of Grice’s cooperative principle: Application to AAC”, Jan Bedrosian, Linda Hoag, Kathleen F. McCoy, Christopher Pennington, and Richard Wright. Paper presented at the American Speech-Language-Hearing Association Convention, San Francisco, CA., November, 1999.
- “Generation Issues in a Second Language Learning Tool”, Kathleen F. McCoy. Poster Presentation at NSF Human Computer Interaction Program 1999 Grantees Meeting, Orlando, FL, February 1999.
- “Developing a Writing Tool for Deaf Writers”, Linda Z. Suri, and Kathleen F. McCoy. *TAM’94*, (Technology and Media Conference for Exceptional Children), St. Paul, Minnesota, February, 1994.
- “Correcting Discourse-Level Errors in CALL Systems”, Linda Z. Suri and Kathleen F. McCoy. Abstract in Proceedings of the World Conference on AI in Education (AIED-93). Refereed poster presentation. Abstract published in proceedings. Edinburgh, Scotland, August, 1993.
- “Using Syntactic Knowledge for Word Prediction”, Julie Vandyke, Kathleen McCoy, and Patrick Demasco. Presented at The Fifth Biennial International ISAAC Conference on Augmentative and Alternative Communication, August, Philadelphia, PA, 1992. (Abstract for presentation appears in Augmentative and Alternative Communication Journal, 1992.)

“Compansion: A Rate Enhancement Technique for Word-Based AAC Systems”, Patrick Demasco, Mark Jones, Kathleen F. McCoy, and Christopher Pennington. Presented at The Fifth Biennial International ISAAC Conference on Augmentative and Alternative Communication, August, Philadelphia, PA, 1992. (Abstract for presentation appears in *Augmentative and Alternative Communication Journal*, 1992.)

“Designing a Computer Tool for Deaf Writers Acquiring Written English”, Kathleen F. McCoy and Linda Suri. Poster presented at The Fifth Biennial International ISAAC Conference on Augmentative and Alternative Communication, August, Philadelphia, PA, 1992. (Abstract for presentation appears in *Augmentative and Alternative Communication Journal*, 1992.)

“Flexible Abbreviation Expansion”, Gregg M. Stum, Patrick Demasco, Kathleen F. McCoy. Presented at The Fifth Biennial International ISAAC Conference on Augmentative and Alternative Communication, August, Philadelphia, PA, 1992. (Abstract for presentation appears in *Augmentative and Alternative Communication Journal*, 1992.)

“Using TAG in a Functional Generator”, Kathleen F. McCoy, K. Vijay-Shanker, and John Hughes. Presented at the TAG+ Workshop, Institute for Research in Cognitive Science (IRCS), University of Pennsylvania, Philadelphia, PA, June, 1992.

“Intelligent Parsing in AAC Systems”, Eric H. Nyberg, Patrick W. Demasco, Bruce R. Baker, and Kathleen F. McCoy. Presented at The Fourth Biennial International ISAAC Conference on Augmentative and Alternative Communication, August 13-16, Stockholm, Sweden, 1990. (Abstract for presentation appears in *Augmentative and Alternative Communication Journal*, Volume 6, Number 2, p. 104, June 1990.)

Book Reviews

Review of *The Linguistic Basis of Text Generation* by Laurence Danlos, *Computational Linguistics*, Vol 14, Number 3, pp. 115–116, September 1988.

PhD Students

Debra Yarrington.

Keith Trnka.

Rashida Davis.

Raymond Kozlowski (co-advisor with Vijay Shanker), December 2005. *Uniform Multilingual Sentence Generation Using Flexible Lexico-grammatical Resources*. Current Position: Lecturer, Computer Science Department, Tufts University.

Lisa Michaud, *Modeling User Interlanguage in a Second Language Tutoring System for Deaf Users of American Sign Language*, August 2002. Current Position: Assistant Professor, Mathematics and Computer Science, Wheaton College, Norton, MA.

Mark Jones, *Generating Transparently Motivated Metaphor*, May 1994. Current Position: Associate Professor, Computer and Information Science, Kutztown University, Kutztown, PA.

Linda Suri, *Using Local Focus to Correct Illegal NP Omissions*, December 1993. Current Position: Software Engineer, Openwave Systems, Santa Barbara, CA.

David Mooney (co-advisor with M. Sandra Carberry), *Generating High-Level Structure for Extended Explanations*, May 1993. Current Position: Assistant Professor and Lab Coordinator, Department of Mathematics and Computer Science, Shippensburg University, Shippensburg, PA.

Gijoo Yang, (co-advisor with K. Vijay-Shanker), *An Integrated Approach to Generation Using Systemic Grammars and Tree Adjoining Grammars*, December 1991. Current Position: Associate Professor, Department of Information and Telecommunication Engineering, Dongguk University, Seoul, South Korea.

Master's Students

Matthew Huenerfauth, *The development of PETALS: Personality Tagged Logical Statistical Generator*, May 2001. Current Position: Assistant Professor, Computer Science Department, City University of New York. Matt, who received both his BS and his MS in 2001, received an honorable mention for the 2001 Computing Research Association (CRA) Outstanding (Male) Undergraduate Award. He graduated with a PhD in Computer and Information Science from the University of Pennsylvania in 2006.

Debra M. Yarrington, *The Automatic Extraction of Diphone Speech Segments with Context-Dependent Boundary Sets*, Co-Advisor: H. Timothy Bunnell, May 1996. Current Position: Web Designer and Developer, AgoraNet Inc., Newark, DE and PhD Student in Computer and Information Sciences Department, University of Delaware.

Peter Vanderheyden, *Organization of Pre-Stored Text in Alternative Augmentative Communication Systems: An Interactive Schema-Based Approach*, Co-Advisor: Patrick W. Demasco, December 1995. After graduation, Peter joined the PhD program in Computer Science Department, University of Waterloo.

Wendy Zickus, *A Software Engineering Approach to Developing an Object-Oriented Lexical Access Database and Semantic Reasoning Module*, Co-Advisor: Patrick W. Demasco, May 1995.

Gregg Stum, *Automatic Abbreviation Generation*, Co-Advisor: Patrick W. Demasco, August 1991.

Satish Ramachandran, *Generation of Content and Structure of Tailored Texts*, December 1988.

Undergraduate Honors Thesis Supervision

Litza Stark, *Analyzing the Interlanguage of ASL Natives*, May 2001. Current Position: IT Manager, National Center for Children in Poverty, New York. Litza was runner up for the 2001 Computing Research Association (CRA) Outstanding (Female) Undergraduate Award.

Julie Van Dyke, *Word Prediction for Disabled Users: Applying Natural Language Processing to Enhance Communication*, May 1991. Current Position: Graduate Student, Psychology Department and the Learning Research and Development Center (LRDC), University of Pittsburgh. Prior to this, she worked on the Soar Project in the Computer Science Department at Carnegie Mellon University where she received her Masters Degree in Computational Linguistics.

Selected Department/University Committees

Member of Department of Computer and Information Sciences Executive Committee, 1/31/97-1/31/00 (On sabbatical leave 9/1/98-8/31/99); 2/1/00-1/31/03; 2/1/03-1/31/06, 2/1/06-1/31/09 (On sabbatical leave 9/1/06-8/31/07).

Member of Department of Computer and Information Sciences Space Committee, 9/1/2005-8/31/2006.

Judge for the Engineering and Science Posters, University of Delaware McNair, UUS Scholars Symposium, August, 2005, 2006.

Chair of Undergraduate Committee, Department of Computer and Information Sciences, 9/1/04-8/31/05.

Member Department of Electrical and Computer Engineering, Recruiting Committee, September 2004-February 2005.

Member Department of Computer and Information Sciences Graduate Admissions Committee, September 2001-August 2004.

Member College of Arts and Science Senate Committee on Promotions and Tenure, September 1999-May 2001.

Chair of Committee to Evaluate Dissertations for the Owen Sypherd Dissertation Prize, University of Delaware, May 2000.

Member of the selection committee for the Allan P. Colburn Prize in Math and Engineering, 1996.

Coordinator of Graduate Studies, Computer and Information Sciences Department, University of Delaware, July 1992 - July 1995.