Kathleen F. McCoy

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Research Interests

Accessible Computing, Artificial Intelligence, Natural Language Generation and Understanding, Discourse Phenomena, User Modeling and User-Adaptive Interaction, Rehabilitation Engineering, Augmentative and Alternative Communication (AAC), 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

January 2022-present Co-Director (with Sunita Chandrasekaran) of University of Delaware AI Center of Excellence (AICoE).

January 2021-present Vice Chair, ACM SIGACCESS (Association of Computing Machinery Special Interest Group on Accessible Computing.

August 2019-July 2020 Chair, University of Delaware Chairs Caucus.

September 2015-August 2021 Chair, Dept. of Computer and Information Sciences, University of Delaware, Newark, Delaware.

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

June 2013-February 2024 Contractor-Technical Consultant (part-time) for the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR), Administration for Community Living (ACL), US Department of Health and Human Services (HHS), Washington, DC. (Prior to 2015 named National Institute on Disability and Rehabilitation Research, US Department of Education.) Closer to full-time during Sabbatical September 2014-August 2015.

May 2000-June 2009 Director, Center for Applied Science and Engineering in Rehabilitation (ASEL), University of Delaware.

January 1995-December 2008 Executive Committee and (Secretary/)Treasurer of the Association for Computational Linguistics.

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/Honors

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.

ACM Senior Member (2011).

Professional Achievements

Academic Executive Coaching Program, Coach: Dennis Morris, Academic Leadership Programs, Completed 2020.

Participant: Vistage Leadership Program for College of Engineering Leadership Team, University of Delaware, 6/2019-6/2020.

HERS Leadership Training Institute for Women in Higher Education, Bryn Mawr College Summer Institute, July 2017.

Participant: Academic Leadershp Program, College of Arts and Science, University of Delaware. Professional Development program emphasizing chair leadershp skills. Led by Dennis Morris, CEO, Leading and Selling with Respect. Fall 2015.

Professional Activities

Vice-Chair, ACM SIGACCESS (Association for Computing Machinery, Special Interest Group on Accessible Computing). July 2021-June 2024; July 2024-June 2027.

Co-Chair with Margaret Campbell (National Institute on Disability, Independent Living, and Rehabilitation Research, US Department of Health and Human Services) and Samantha Meklir (Office of the National Coordinator for Health Information Technology, US Department of Health and Human Services), Accessibility and Usability in Health Information Technology (HIT): A Research and Action Conference to Empower People with Disabilities, Older Adults, and Caregivers. Sponsored by the Interagency Committee on Disability Research. September 17-18, 2015.

Co-Organizer, Accessibility Hackathon, sponsored by the White House Office of Science and Technology Policy, 18F (GSA), the National Institute on Disability, Independent Living, and Rehabilitation Research, and DC Legal Hackers, March 31, 2015.

Co-Chair, Interagency Committee on Disability Research (ICDR), Subcommittee on Assistive Technology (ICAT), with David Baquis (US Access Board), August 2014-October 2016. Participation in development of Strategic Plan for ICDR, including development of strategic planning committee on Assistive Technology and Universal Design, 9/2015-presentation in 12/2016.

Member National Institute of Standards Cloud Accessibility Public Working Group (headed by Robert Bohn). 2013-2019.

Editorial Boards/Journal Editing

Associate Editor: ACM Transactions on Accessible Computing (TACCESS), September 2019-Present.

Co-Editor in Chief (with Matt Huenerfauth, RIT): ACM Transactions on Accessible Computing (TACCESS), August 2013-2019 (2 terms).

Managing Guest Editor of the special issue "Speech and Language Processing for Assistive Technologies for *Computer Speech & Language* with co-guest editors John L. Arnott, Leo Ferres, Melanie Fried-Oken, and Brian Roark. Volume 27, Issue 6, September 2013, ISSN: 0885-2308.

Guest Editor: ACM Transactions on Accessible Computing (TACCESS), Special Issue on ASSETS09, 2009-2010. Volume 3, Issue 2, November 2010.

Guest Co-Editor (with Annalu Waller, University of Dundee): ACM Transactions on Accessible Computing (TACCESS), Special Issue on Augmentative and Alternative Communication, Vol. 1, No. 3, 2009.

Editorial Board: ACM Transactions on Accessible Computing (TACCESS) (2006-2013)

Editorial Board: IEEE Intelligent Systems Magazine (2005-9/2009)

Editorial Board: Computational Linguistics Journal 1993-1995.

Review Committees (Selected)

Member Visiting Committee: Evaluated the Computer Science and Data Science programs at the U.S. Naval Academy in Annapolis, MD. March, 2022.

Conference/Workshop Organization (Selected)

Workshop Organizer: First AICoE Workshop 2023, A University of Delaware workshop held on the STAR Campus, January 2023. Organizers: Sunita Chandrasekaran, Kathleen McCoy, Rudolf Eigenmann, and Cathy Wu.

Workshop Organizer: NLG4Health, A hybrid workshop organized as part of the 15th International Natural Language Generation (INLG) Conference, Maine, USA, July 18, 2022. Organizers: Emiel Krahmer (Tilburg University), Kathy McCoy (University of Delaware), and Ehud Reiter (University of Aberdeen).

General Chair [Margaret Mitchell, Microsoft Research; David McDonald, Smart Information Flow Technologies (SIFT); Kathleen F. McCoy, University of Delaware] 8th International Natural Language Generation Conference, Philadelphia, PA, USA, June 19th-21st, 2014.

Workshop Organizer [Jan Alexandersson, DFKI, Germany; Peter Ljunglöf, University of Gothenburg and Chalmers University of Technology, Sweden; Kathleen F. McCoy, University of Delaware, USA; François Portet, Grenoble Institute of Technology, France;

Brian Roark, Oregon Health & Science University, USA; Frank Rudzicz, University of Toronto, Canada; Michel Vacher, CNRS, France] Fourth Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), Co-located with INTERSPEECH 2013. Grenoble, France, August 21-22, 2013

Workshop Organizer [Jan Alexandersson, DFKI; Peter Ljunglöf, University of Gothenburg and Chalmers University of Technology; Kathleen F. McCoy, University of Delaware; Brian Roark, Oregon Health & Science University; Annalu Waller, University of Dundee], Third Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), Co-located with NAACL HLT 2012 Montreal, Quebec, Canada, June 7-8, 2012.

General Chair, 13th International ACM SIGACCESS Conference on Computers and Accessibility, 2011.

Workshop Organizer [Melanie Fried-Oken (Oregon Health & Science University), Peter Ljunglöf (University of Gothenburg), Kathleen F. McCoy (University of Delaware), Annalu Waller (University of Dundee)], Second Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), an EMNLP 2011 Workshop, 30 July 2011, Edinburgh, Scotland.

Program Chair, 11th International ACM SIGACCESS Conference on Computers and Accessibility, 2009.

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.

Workshop Organizer [Melanie Fried-Oken (Oregon Health & Science University), Kathleen F. McCoy (University of Delaware), Brian Roark (Oregon Health & Science University)], First Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), a NAACL HLT 2010 Workshop, 5 June 2010, Los Angeles, CA.

Association for Computational Linguistics Leadership Positions

Past President of ACL Special Interest Group on Speech and Language Processing for Assistive Technologies (SIG-SLPAT). January 2013-January 2014.

Founding President of ACL Special Interest Group on Speech and Language Processing for Assistive Technologies (SIG-SLPAT). November 2011-January 2013.

Past Treasurer (and Member of Executive Committee): Association for Computational Linguistics, January 2008-December 2008.

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.

Other Professional Activities

Invited participant, Accessibility Technology for All. Computing Research Association (CRA) Workshop, February, 2023, Washington, DC.

Invited participant. Integrating Accessibility and Disability into the Computing Curriculum, March 2022, a symposium associated with SIGCSE 2022.

Chair, ASSETS 2020 Best Papers Committee (select a conference best paper award and a student best paper award).

Associate Chair (AC) for the Accessibility and Aging Subcommittee for the papers program at CHI 2020, 2021, 2022, 2023, 2025.

Member, CHI 2025 Awards Committee

Area Chair, Generation, ACl 2019 - Annual Meeting of the Association for Computational Linguistics.

Participant NSF Workshop: Departmental Plans for Broadening Participation in Computer Science, A Planning Workshop for Computing Department Leadership. November 13-15, 2019.

Member SIGACCESS Awards Committee, 2018-2020.
  Committee chair 2019.
  Selected the ASSETS 2008 Paper: Slide rule: making mobile touch screens accessible to blind people using multi-touch interaction techniques. Author(s): Shaun K. Kane, Jeffrey P. Bigham, and Jacob O. Wobbrock as the Receipient of the 2019 SIGACCESS ASSETS Paper Impact Award winner.
  Selected Juday Brewer as the Receipient of the 2018 SIGACCESS Award for Outstanding Contribution.

Panelist for ASSETS 2018 Doctoral Consortium, October 21, 2018, Galway, Ireland.

Mentoring Chair, ASSETS 2015 - The 17th International ACM SIGACCESS Conference on Computers and Accessibility.

Evaluator, 2015 ACM Student Research Competition (SRC) Grand Finals.

Member of ASSETS Steering Committee (overseeing ASSETS conferences), 2012-2014.

Member of Panel of Jurors for the Student Research Competition at the 15th International ACM Conference on Computers and Accessibility (ASSETS 2013)

Associate Chair (and member of program committee): 14th International ACM Conference on Computers and Accessibility (ASSETS 2012)

Member of Panel of Distinguished Faculty for the Doctoral Consortium for ASSETS 2010 (The Twelfth International ACM SIGACCESS Conference on Computers and Accessibility).

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.

Recent Selected Program/Review Committees:
  INLG 2025: The 18th International Conference on Natural Language Generation
  ASSETS 2025: The 27th International ACM SIGACCESS Conference on Computers and Accessibility
  INLG 2024: The 17th International Conference on Natural Language Generation
  ASSETS 2024: The 26th International ACM SIGACCESS Conference on Computers and Accessibility
  ASSETS 2023: The 25th International ACM SIGACCESS Conference on Computers and Accessibility
  COLING 2022: 29th International Conference on Computational Linguistics
  ASSETS 2022: The 24th International ACM SIGACCESS Conference on Computers and Accessibility

ASSETS 2021: The 23rd International ACM SIGACCESS Conference on Computers and Accessibility

ICT4AWE 2021: 7th International Conference on Information and Communication Technologies for Ageing Well and e-Health

ASSETS 2020: The 22nd International ACM SIGACCESS Conference on Computers and Accessibility

COLING 2020: The 28th International Conference on Computational Linguistics in 2020

ICT4AWE 2020: 6th International Conference on Information and Communication Technologies for Ageing Well and e-Health

ASSETS 2019: The 21st International ACM SIGACCESS Conference on Computers and Accessibility

ASSETS 2018: The Twentieth International ACM SIGACCESS Conference on Computers and Accessibility

ASSETS 2017: The Nineteenth International ACM SIGACCESS Conference on Computers and Accessibility

ICT4AWE 2017: 2nd International Conference on Information and Communication Technologies for Ageing Well and e-Health

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 (selected):
Computer Speech & Language (Acting Editor for several papers)
ACM Transactions on Computer-Human Interaction (TOCHI)
ACM Transactions on Speech and Language Processing
Artificial Intelligence Journal
Augmentative and Alternative Communication (AAC) Journal
Computational Linguistics Journal
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 Rehabilitation Research and Development
Journal of Speech Language and Hearing Research
New Review of Hypermedia and Multimedia

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 Comunication Disorders Special Emphasis Panel, Translational Reserach, May 2007.

NSF Panel Reviewer

NSF Site-Visit Team Member

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

Site Visit Reviewer for NSF.

Reviewer for The Portuguese Foundation for Science and Technology (FCT)

Reviewer for British Computer Society Distinguished Dissertations competition, 2012.

Ad hoc reviewer for NSF (several different divisions/programs including IIS).

Invited Participant: White House Disability and Inclusive Technology Summit, November, 2016.

Invited Participant/Speaker in CRA-W Graduate Student Cohort Program, February, 2005; March 2006; March 2007; April 2010.

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)

IAAP: International Association of Accessibility Professionals

Publications

Connor Onweller, Edward Kim, Kathleen McCoy and Andrew O'Brien, "Distributional Semantics of Line Charts for Trend Classification". In *Proceedings of the 17th International Symposium on Visual Computing*, ISVC'22 Symposium, San Diego, CA, 2022.

Leighanne Hsu, Rommy Marquez Hernandez, Kathleen McCoy, Keith Decker, Ajith Kumar Vemuri, Greg Dominick, and Megan Heintzelman, "Towards Development of an Automated Health Coach". In *Proceedings of NLG4Health a workshop organized as part of the 15th International Conference on Natural Language Generation*, July, 2022, Maine, USA. `https://nlg4health.uvt.nl/wp-content/uploads/2022/07/towards_development_of_an_auto.pdf`

Lauren Olson, Chandra Kambhamettu, and Kathleen McCoy, "Photometric Enhancements to Improve Recognizability of Image Content". Extended Abstract, 2022 VizWiz Grand Challenge Workshop @ CVPR. `https://drive.google.com/file/d/1G6CVO6gNyhrh_9cshQLqL8xNEfBSZqxh/view?usp=sharing`

Lauren Olson, Chandra Kambhamettu, and Kathleen McCoy, "Towards Using Live Photos to Mitigate Image Quality Issues in VQA Photography". In *Proceedings of the 23rd International ACM SIGACCESS Conference on Computers and Accessibility*, ASSETS 2021, Poster Paper, 3 pages, Article Number 92, October, 2021. `https://doi.org/10.1145/3441852.3476541`

Lauren Olson, Chandra Kambhamettu, and Kathleen McCoy, "Live Photos: Mitigating the Impacts of Low-Quality Images in VQA". Extended Abstract, 2021 VizWiz Grand Challenge Workshop @ CVPR, pp. 225-227, June, 2021. `https://ivc.ischool.utexas.edu/~yz9244/VizWiz_workshop_2021/poster_pdf/olson_abstract.pdf`

Kim Marriott, Bongshin Lee, Matthew Butler, Ed Cutrell, Kirsten Ellis, Cagatay Goncu, Marti Hearst, Kathleen McCoy, Danielle Albers Szafir, "Inclusive Data Visualization for People with Disabilities: A Call to Action". ACM Interactions, Vol. 28, No. 3, May - June 2021, pp. 47-51. `https://doi.org/10.1145/3457875`

Edward Kim, Connor Onweller, Andrew O'Brien, Kathleen McCoy, "The Interpretable Dictionary in Sparse Coding". *Explainable Agency in Artificial Intelligence Workshop*, XAI Workshop, AAAI2021. `https://arxiv.org/abs/2011.11805`

Edward Kim, Connor Onweller, and Kathleen F. McCoy, "Information Graphic Summarization using a Collection of Mutimodal Deep Neural Networks". In *2020 25th International Conference on Pattern Recognition*, ICPR, 2020. pp. 10188-10195. `https://ieeexplore.ieee.org/document/9412146`

Jan L. Bedrosian and Linda A. Hoag and Kathleen F. McCoy, "Service Provider Attitudes Regarding Conversational Rule Violations in Three Public Settings". *Augmentative and Alternative Communication.* Vol 26, Issue 1, pages 4-17, 2020. `https://doi.org/10.1080/07434618.2020.1740941`

Edward Kim and Kathleen F. McCoy, "Multimodal Deep Learning using Images and Text for Information Graphic Classification" . In *Proceedings of the 20th International ACM SIGACCESS Conference on Computers and Accessibility*, ASSETS 2018, pp. 143 – 148, October 22-24, 2018, Galway, Ireland. `https://doi.org/10.1145/3234695.3236357` Best Paper Award nominee.

John Miller and Kathleen McCoy, "Topic Model Stability for Hierarchical Summarization". In *Proceedings of the EMNLP2017 Workshop on New Frontiers in Summarization*, Copenhagen, Denmark, September, 2017.

Priscilla Moraes, Kathleen McCoy, and Sandra Carberry, "Enabling text readability awareness during the micro planning phase of NLG applications". In *Proceedings of the 9th International Natural Language Generation Conference*, pages 121-131, Edinburgh, Scotland, September, 2016. `http://www.macs.hw.ac.uk/InteractionLab/INLG2016/proceedings/pdf/INLG21.pdf`

Priscilla Moraes, Gabriel Sina, Kathleen F. McCoy, and Sandra Carberry, "Evaluating the Accessibility of Line Graphs through Textual Summaries for Visually Impaired Users". In *Proceedings of the 16th International ACM SIGACCESS Conference on Computers and Accessibility*, ASSETS '14, pp. 83–90, October 20-22, 2014, Rochester, NY, USA. `http://doi.acm.org/10.1145/2661334.2661368`

Zhuo Li, Sandra Carberry, Hui Fang, and Kathleen McCoy, "Identifying Important Features for Graph Retrieval". In *Proceedings of the 25th International Conference on Computational Linguistics*, Coling 2014, pp. 600–609, Dublin, Ireland, August, 2014. `http://www.aclweb.org/anthology/C14-1057`

Zhuo Li, Sandra Carberry, Hui Fang, Kathleen F. McCoy, and Kelly Peterson, "Infographics Retrieval, a New Methodology". In *Natural Language Processing and Information Systems, 19th International Conference on Application of Natural Language to Information Systems, NLDB 2014, Montpellier, France, June 18-20, 2014. Proceedings*, Elisabeth Metais, Mathieu Roche and Maguelonne Teisseire (eds), pages 101-113, Springer, 2014. `http://link.springer.com/chapter/10.1007%2F978-3-319-07983-7_15`

Priscilla Moraes, Kathleen McCoy and Sandra Carberry, "Adapting Graph Summaries to the Users' Reading Levels". In *Proceedings of the 8th International Natural Language Generation Conference*, INLG-2014, pages 64-73, Philadelphia, PA, June, 2014. `http://www.aclweb.org/anthology/W14-4409`

Priscilla Moraes, Gabriel Sina, Kathleen McCoy and Sandra Carberry, "Generating Summaries of Line Graphs". In *Proceedings of the 8th International Natural Language Generation Conference*, INLG-2014, pages 95-98, Philadelphia, PA, June, 2014. `http://www.aclweb.org/anthology/W14-4413`

John E. Miller and Kathleen F. McCoy, "Experimental Design to Improve Topic Analysis Based Summarization". In *Proceedings of the 8th International Natural Language Generation Conference*, INLG-2014, pages 74-82, Philadelphia, PA, June, 2014. `http://www.aclweb.org/anthology/W14-4410`

Margaret Mitchell, Kathleen McCoy, David McDonald, and Aoife Cahill, "Proceedings of the 8th International Natural Language Generation Conference (INLG)". Association for Computational Linguistics, Philadelphia, Pennsylvania, U.S.A., 2014. `http://aclweb.org/anthology/W14-4400`

Keith Butler, Priscilla Moraes, Ian Tabolt, and Kathleen F. McCoy, "Team UDEL KBGen 2013 Challenge". In *Proceedings of the 14th European Workshop on Natural Language Generation*, pages 206-207, Sofia, Bulgaria, August 2013. `http://anthology.aclweb.org//W/W13/W13-2132.pdf`

Kathleen F. McCoy, John L. Arnott, Leo Ferres, Melanie Fried-Oken, and Brian Roark, "Speech and Language Processing as Assistive Technologies". *Computer Speech and Language*, Volume 27, issue 6, pp. 1143-1146, September, 2013. `http://www.sciencedirect.com/science/article/pii/S0885230813000326`

Zhou Li, Matthew Stagitis, Sandra Carberry, and Kathleen McCoy,"Towards Retrieving Relevant Information Graphics". In *Proceedings of the 36th Annual ACM SIGIR Conference on Research and Development in Information Retrieval*, (Short Paper), SIGIR '13, pages 789–792, Dublin, Ireland, July 28-August 1, 2013. `http://doi.acm.org/10.1145/2484028.2484164`

Zhuo Li, Matthew Stagitis, Kathleen McCoy, and Sandra Carberry, "Towards Finding Relevant Information Graphics: Identifying the Independent and Dependent Axis from User-written Queries". *Proceedings of The 26th International FLAIRS Conference* (The Florida Artifical Intelligence Reesearch Society), May 2013, St. Pete Beach, Florida. `http://www.aaai.org/ocs/index.php/FLAIRS/FLAIRS13/paper/view/5939/6072`

Priscilla S. Moraes, Sandra Carberry, and Kathleen McCoy, "Providing Access to the High-level Content of Line Graphs from Online Popular Media". *Proceedings of the 10th International Cross-Disciplinary Conference on Web Accessibility*, May 2013, Rio de Janeiro, Brazil, pages 11:1–11:10. `http://doi.acm.org/10.1145/2461121.2461123`

Debra Yarrington and Kathleen F. McCoy, "Replicating Semantic Connections Made by Visual Readers for a Scanning System for Nonvisual Readers". *Proceedings of ASSETS'12*, October, 2012 Boulder, Colorado, pp. 275-276. `http://dl.acm.org/citation.cfm?id=2384990&dl=ACM&coll=DL&CFID=182806550&CFTOKEN=30903787`

Sandra Carberry, Stephanie Elzer Schwartz, Kathleen McCoy, Seniz Demir, Peng Wu, Charles Greenbacker, Daniel Chester, Edward Schwartz, David Oliver, and Priscilla Moraes, "Access to Multimodal Articles from Popular Media for Individuals with Sight Impairments". *ACM Transactions on Interactive Intelligent Systems* (Special Issue on Highlights of the Decade in Interactive Intelligent Systems), Vol. 2, No. 4, Article 21, December 2012, 40 pages. `http://dl.acm.org/citation.cfm?id=2395126`

Seniz Demir, Sandra Carberry, and Kathleen F. McCoy, "Summarizing Information Graphics Textually". *Computational Linguistics Journal*, Vol. 38, No. 3, pp. 527-574, 2012. `http://www.mitpressjournals.org/doi/pdf/10.1162/COLI_a_00091`

Kathleen F. McCoy (General Chair), Yeliz Yesilada (Program Chair),"ASSETS '11: The Proceedings of the 13th International ACM SIGACCESS Conference on Computers and Accessibility". Dundee, Scotland, UK, October 24-26, 2011, ACM New York, NY, USA. ISBN

978-1-4503-0920-2. `http://dl.acm.org/citation.cfm?id=2049536&coll=DL&dl=GUIDE&CFID=55684067&CFTOKEN=53459913`

Charles F. Greenbacker, Peng Wu, Sandra Carberry, Kathleen F. McCoy, Stephanie Elzer, David D. McDonald, Daniel Chester, and Seniz Demir, "Improving the Accessibility of Line Graphs in Multimodal Documents". *Proceedings of the Second Workshop on Speech and Language Processing for Assistive Technologies (SLPAT 2011)*, pp. 52–62, Association for Computational Linguistics (EMNLP), Edinburgh, Scotland, UK, July, 2011. `http://www.aclweb.org/anthology/W11-2306`

Charles F. Greenbacker, Sandra Carberry, and Kathleen F. McCoy, "A Corpus of Human-written Summaries of Line Graphs". *Proceedings of the UCNLG+Eval: Language Generation and Evaluation Workshop*, pp. 23–27, Association for Computational Linguistics (EMNLP), Edinburgh, Scotland, UK, July, 2011. `http://www.aclweb.org/anthology/W11-2703`

Charles F. Greenbacker, Peng Wu, Sandra Carberry, Stephanie Elzer, and Kathleen F. McCoy, "Abstractive Summarization of Line Graphs from Popular Media". *Proceedings of the Workshop on Automatic Summarization for Different Genres, Media, and Languages*, pp. 41–48, Association for Computational Linguistics, Portland, Oregon, June, 2011. `http://www.aclweb.org/anthology/W11-0506`

Kathy McCoy, Linda Hoag, and Jan Bedrosian, "Next Generation Utterance-Based Systems: What Do Pragmatic Studies Tell Us About System Design". *Perspectives on Augmentative and Alternative Communication*, 2011, 20(2), pp. 57-63, AmericanSpeech-Language-Hearing Association. `doi:10.1044/aac20.2.57`

Charles F. Greenbacker, Kathleen F. McCoy, Sandra Carberry, and David D. McDonald, "Semantic Modeling of Multimodal Documents for Abstractive Summarization". *Proceedings of TS11 at Canadian AI: Workshop on Text Summarization*, (12 pages), St. John's, Newfoundland, May 2011. `http://www.eecis.udel.edu/~mccoy/publications/2011/Greenbacker-etal-CAITS-camera-3.pdf`

Seniz Demir, David Oliver, Edward Schwartz, Stephanie Elzer, Sandra Carberry, and Kathleen F. McCoy, "Interactive SIGHT: Textual Access to Simple Bar Charts". *New Review of Hypermedia and Multimedia*, Vol. 16, No. 3, December 2010, pp. 245-279, available: `http://dx.doi.org/10.1080/13614568.2010.534186`

Kathleen F. McCoy, "Guest Editorial". *ACM Transactions on Accessible Computing (TACCESS)*, Special issue on ASSETS 2009, Volume 3, Issue 2, November 2010, (3 pages). `10.1145/1857920.1857921`

Seniz Demir, Sandra Carberry, and Kathleen F. McCoy, "A Discourse-Aware Graph-Based Content-Selection Framework". *Proceedings of the 6th International Natural Language Generation Conference*, INLG-2010, Dublin, Ireland, pp. 17-25, July, 2010. `http://www.aclweb.org/anthology/W/W10/W10-4202.pdf`

Charles F. Greenbacker, Nicole L. Sparks, Kathleen F. McCoy, and Che-Yu Kuo, "UDel: Refining a Method of Named Entity Generation". *Proceedings of the 6th International Natural Language Generation Conference*, INLG-2010, Dublin, Ireland, pp. 239-240, July, 2010. `http://www.aclweb.org/anthology/W/W10/W10-4231.pdf`

Nicole L. Sparks, Charles F. Greenbacker, Kathleen F. McCoy, and Che-Yu Kuo, "UDel: Named Entity Recognition and Reference Regeneration from Surface Text". *Proceedings of the 6th International Natural Language Generation Conference*, INLG-2010, Dublin, Ireland, pp. 241-242, July, 2010. `http://www.aclweb.org/anthology/W/W10/W10-4232.pdf`

Kathleen F. McCoy, Jan Bedrosian, and Linda Hoag, "Implications of Pragmatic and Cognitive
   Theories on the Design of Utterance-Based AAC Systems". *Proceedings of the First Workshop
   on Speech and Language Processing for Assistive Technologies (SLPAT)*, a NAACL 2010
   Workshop, pp. 19–27, Los Angeles, CA, June 2010.
   `http://aclweb.org/anthology-new/W/W10/W10-1303.pdf`

Debra Yarrington and Kathleen F. McCoy, "Automated Skimming System in Response to Questions
   for NonVisual Readers". *Proceedings of the First Workshop on Speech and Language Processing
   for Assistive Technologies (SLPAT)*, a NAACL 2010 Workshop, pp. 98–106, Los Angeles, CA,
   June 2010. `http://aclweb.org/anthology-new/W/W10/W10-1313.pdf`

Seniz Demir, David Oliver, Edward Schwartz, Stephanie Elzer, Sandra Carberry, and Kathleen F.
   McCoy, "Interactive SIGHT into Information Graphics". *Proceedings of the 7th International
   Cross-Disciplinary Conference on Web Accessibility*, w4a, Raleigh, NC, 10 pages, April 2010.
   `http://www.eecis.udel.edu/~mccoy/publications/2010/Demir-et-al-w4a.pdf`

Shari Trewin (General Chair) and Kathleen F. McCoy (Program Chair), "Assets '09: Proceedings of
   the 11th international ACM SIGACCESS conference on Computers and accessibility".
   Pittsburgh, Pennsylvania, October, 2009. ACM. ISBN ISBN:978-1-60558-558-1.
   `http://portal.acm.org/toc.cfm?id=1639642&idx=SERIES368&type=proceeding&coll=`
   `portal&dl=ACM&part=series&WantType=Journals&title=Proceeding%20of%20the%`
   `20eleventh%20international%20ACM%20SIGACCESS%20conference%20on%20Computers%`
   `20and%20accessibility&CFID=59263020&CFTOKEN=22667894`

Debra Yarrington and Kathleen F. McCoy, "Approaches to Locating Areas of Interest Related to
   Questions in a Document for Non-Visual Readers". *Proceedings of the Eleventh International
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David J. Mooney, Sandra Carberry, Kathleen F. McCoy, "The Basic Block Model of Extended Explanations: an Overview". *Proceedings of the AAAI-90 Workshop on Explanation Generation*, July, 1990.

Kathleen F. McCoy, K. Vijay-Shanker, Gijoo Yang, "Using Tree Adjoining Grammars in the Systemic Framework". *Proceedings of the Fifth International Workshop on Natural Language Generation*, Dawson, Pa, June, 1990. `http://aclweb.org/anthology-new/W/W90/W90-0101.pdf`

David J. Mooney, Sandra Carberry, Kathleen F. McCoy, "The Basic Block Model of Extended Explanations". *Proceedings of the Fifth International Workshop on Natural Language Generation*, Dawson, Pa, June, 1990. `http://aclweb.org/anthology/W/W90/W90-0115.pdf`

Bruce Baker, Eric H. Nyberg, Kathleen F. McCoy, Patrick Demasco, "Iconic Interfaces in Intelligent AAC Systems". *Proceedings of RESNA '90 13th Annual Conference*, Washington, D.C., June, 1990.

Kathleen F. McCoy, Eric H. Nyberg, Bruce Baker, "Intelligent AAC Systems: What Can Be Done Now?". *Proceedings of RESNA '90 13th Annual Conference*, Washington, D.C., June, 1990.

Kathleen F. McCoy, Patrick Demasco, Mark Jones, Christopher Pennington, Charles Rowe, "A Domain Independent Semantic Parser for COMPANSION". *Proceedings of RESNA '90 13th Annual Conference*, Washington, D.C., June, 1990.

Gijoo Yang, Kathleen F. McCoy, Patrick Demasco, "Word Prediction Using a Systemic Tree Adjoining Grammar". *Proceedings of RESNA '90 13th Annual Conference*, Washington, D.C., June, 1990.

Kathleen F. McCoy, "Generating Context Sensitive Responses to Object-Related Misconceptions". *Artificial Intelligence*, Vol 41, pp. 157–195, 1989.

Kathleen F. McCoy, "Highlighting a User Model to Respond to Misconceptions". *User Models in Dialog Systems*, Alfred Kobsa and Wolfgang Wahlster, editors, Springer Verlag Publishers, 1989.

Eduard Hovy and Kathleen F. McCoy, "Focusing Your RST: A Step Toward Generating Coherent Multisentential Text". *Proceedings of the 11th Annual Meeting of the Cognitive Science Society*, Ann Arbor, MI, August, 1989.

Kathleen F. McCoy, Patrick Demasco, Yu Gong, Christopher Pennington, and Charles Rowe, "A Semantic Parser for Understanding Ill-Formed Input". *Proceedings of the 12th Annual RESNA Conference*, New Orleans, LA, June 25-30, 1989.

Kathleen F. McCoy, Patrick Demasco, Yu Gong, Christopher Pennington, and Charles Rowe, "Toward a Communication Device which Generates Sentences". *Proceedings of the 12th Annual RESNA Conference*, New Orleans, LA, June 25-30, 1989.

Patrick Demasco, Kathleen F. McCoy, Yu Gong, Christopher Pennington, and Charles Rowe, "Towards More Intelligent AAC Interfaces: The Use of Natural Language Processing". *Proceedings of the 12th Annual RESNA Conference*, New Orleans, LA, June 25-30, 1989.

Patrick Demasco, Matthew Lillard, and Kathleen F. McCoy, "Word COMPANSION: Allowing Dynamic Word Abbreviations". *Proceedings of the 12th Annual RESNA Conference*, New Orleans, LA, June 25-30, 1989.

Kathleen F. McCoy, "Reasoning on a Highlighted User Model to Respond to Misconceptions". *Computational Linguistics*, Special Issue in User Modeling, Vol 14, Number 3, pp. 52–63, September, 1988. `http://www.aclweb.org/anthology/J/J88/J88-3005.pdf`

Kathleen F. McCoy, "Contextual Effects on Responses to Misconceptions". *Natural language generation: New results in Artificial Intelligence, Psychology, and Linguistics*, Gerrard Kempen, editor, Dordrecht/Boston: Martinus Nijhoff Publishers (Kluwer Academic Publishers), 1987.

Kathleen F. McCoy, "Generating Responses to Property Misconceptions Using Perspective". *Communication Failure in Dialogue and Discourse*, Ronan Reilly, editor, North Holland, 1987.

Kathleen F. McCoy, "The ROMPER System: Responding to Object-Related Misconceptions using Perspective". *Proceedings of the 24th Annual Meeting of the Association for Computational Linguistics*, Columbia University, New York, June, 1986.

Kathleen F. McCoy, "The Role of Perspective in Responding to Property Misconceptions". *Proceedings of the Ninth International Joint Conference on Artificial Intelligence*, pp. 791–793, Los Angeles, Ca., August 18-23, 1985.

Kathleen F. McCoy, "Misconception Responses That Change With Context: the Role of Object Perspective". *Proceedings of The First Conference on Artificial Intelligence Applications*, Denver, Colorado, December 5-7, 1984.

Kathleen F. McCoy, "Correcting Object-Related Misconceptions: How Should The System Respond?". *Proceedings of Coling84*, Pages 444-447, Stanford University, Stanford, Ca., July 2-6, 1984. `http://dx.doi.org/10.3115/980431.980581`

Kathleen F. McCoy, "Correcting Misconceptions: What to Say When the User is Mistaken". *Proceedings of CHI'83 Conference on Human Factors in Computing Systems*, Pages 197–201, Boston, Ma., December 1983. `http://doi.acm.org/10.1145/800045.801610`,

Kathleen F. McCoy, "Augmenting a Database Knowledge Representation for Natural Language Generation". *Proceeding of the 20th Annual Meeting of the ACL*, Toronto, Canada, June 1982. `http://dx.doi.org/10.3115/981251.981286`

External Support

Unidel 2021 Award "UD Artificial Intelligence (AI) Center of Excellence", Kathleen F. McCoy, Sunita Chandrasekaren, Rudolph Eigenmann, Jamie Phillips, and Cathy Wu. $494,946, 2022-2024 (with no cost extension)..

Subcontract on Edward Kim's "CAREER: Sparse Associative Deep Learning using Neural Mimicry in Multi-modal Machine Learning", NSF. PI: Edward Kim. 6/1/2019-5/31/2024. Approximately 130,000.

JP Morgan Chase, "Transition Education & Careers in Computer Information Science & Engineering", Brian Freedman, Debra Yarrington, Kenneth Barner, Kathleen McCoy, April 2018 - March 2028, 10 Years, $7,500,000.

U.S. Department of Education, National Institute on Disability and Rehabilitation Research (NIDRR), Field Initiated Research Development Program, Grant Number: H133G080047, "Multimodal Access to Information Graphics", PI: Ken Barner, Co-PIs: Sandra Carberry, Kathleen F. McCoy, Beth Mineo. 10/1/2008 – 3/30/2012, $599,485.

Department of Health and Human Services, National Institutes of Health, National Institute on Deafness and Other Communication Disorders, Grant Number: 5 R01 DC003670, "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 – 08/31/2009, $996,858 (expected).

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 – 10/31/2008, $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 Invited Talks/Presentations

"ECE/CIS AI Curricula at the University of Delaware", Invited participant at the 2025 ECEDHA (Electrical and Computer Engineering Department Heads Association) Summit Series - Community Summit, AI-Centered Curriculum Innovation in ECE, July 10, 2025.

Served as a faculty expert who spoke about John Hopfield and Geoffrey Hinton, recipients of the Nobel Prize in Physics for their discoveries and inventions that paved the way for machine learning with artificial neural networks. At the 2024 Nobel Symposium, Sponsored by the College of Arts and Sciences, University of Delaware, November 2024.

"Introduction to AI". Course with Keith Decker at 2024 Delaware Governor's School for Excellence, July 19, 2024.

"AI and Education". Presentation to the faculty of the Associate in Arts Program, University of Delaware, May 2024.

"Understanding AI". Presentation at the 5th Annual Provost's Symposium on Engaged Scholarship. University of Delaware Community Engagement Initiative, March 2024.

"Navigating Tomorrow: The Transformative Role of AI in Shaping Future University Operations and Education". Presentation to the University of Delaware Faculty Senate Meeting, March 2024.

Invited Panelist: "Leadership Roundtable from Past to Future: The Evolution and Impact of AI on Technology Development". Leah Burton (chair), SAS Institute; Dr. Michael Littman, NSF; Dr. Kathy McCoy, University of Delaware; Sterlina Smith, SAS. At AURP (Association of University Research Parks) 2023 International Conference, Newark, DE, October, 2023.

"Technical Overview of AI Tools", with Pinar Kullu. Presented at SIT 2023 AI Tools in Higher Education, University of Delaware Summer Institute on Teaching, June, 2023.

Invited Panelist: "AI at the University of Delaware: Keeping up with Demand in Both Research and Teaching", March 2023. Presented at AI in Delaware, an event of the Technology Forum of Delaware.

"Generation for Social Good: Assistive Technologies, Public Health, and Beyond", December, 1, 2021. SIGGEN Webinar held on Google Meet.

Invited Speaker: Inclusive Data Visualization Workshop. Microsof Reearch, January, 13, 2020.

Invited Panelist: "AI-Driven Image Captioning for Inclusive Productivity (Making Images Accessible)", 20th Annual Microsoft Research Faculty Summit, Redmond, WA, July 2019.

"Summarizing Line Graphs for Visually Impaired Users", Department of Computing Sciences, Villanova University, December, 2017.

"Experience at the HERS Leadership Institute", Advance Institute Networking Lunch, University of Delaware, November 2017.

Invited Speaker at NLP4ITA 2013: The Workshop Natural Language Processing for Improving Textual Accessibility, organized with NAACL 2013 Conference in Atlanta Georgia, June, 2013.

"Natural language Generation and Assistive Technologies", Keynote speaker at INLG2012: the 7th International Conference on Natural Language Generation, Starved Rock State Park, Utica, IL, May 30-Jun 1, 2012.

"SceneTalker: A Research-Driven Utterance-Based System Design for AAC", School of Informatics, University of Edinburgh, October, 27, 2011.

"Theory and Tools for Literacy in Deaf Children", Invited Talk, Conference on Technoligies for Educating Deaf Children (a conference by the LODE Project - Logic-based web tool for Deaf Children), May 21, 2011, Trento Italy.

"Modeling the Acquisition of English in the ICICLE System", Human Language Translation Unit Seminar, Bruno Kessler Foundation, Provo, Italy, May, 2011.

"Developing Communication Aids for People with Disabilities: Some Opportunities for Computer Science", Computer Science Department, Saint Joseph's University, Philadelphia, PA. April, 2010.

"Next Generation Utterance-Based Systems: What do Pragmatic Studies tell us about System Design?", Session Presenter, ASHA Division on Augmentative & Alternative Communication Tenth Annual Conference, Gaithersburg, MD, February, 2009.

"Applications of Linguistics to Communication Aids for People with Disabilities", one of the invited presenters in *Bridging Computational and Applied Linguistics: Implementation Challenges and Benefits*, an invited colloquium at AAAL2009 (American Association for Applied Linguistcs), Denver, Colorado, March, 2009.

"Adaptive Word Prediction in Communication Aids for People with Disabilities", OGI School of Science and Engineering, Oregon Health & Science University (OHSU), Portland, Oregon, February, 2008.

"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.

Selected Invited Opening Remarks

Opening of Delaware CS Education Summit, March, 2019.

Welcoming Remarks: 2019 International Workshop on Cyber-Physical and Cyber-Resilience, March, 2019.

Opening of Delaware CS Education Summit, March 23, 2017.

Selected Service Presentations

P&T Preparation Guidance, Spring 2024. Rachel Davidson (primary), Kathleen McCoy, and Jamie Phillips. Talk and discussion for members of the University of Delaware, College of Engineering going up for promotion.

Interviews/Popular Media

Featured interview in December 2011 Newsletter of the Family Center on Technology and Disability, "AI as AT: Artificial Intelligence Technology with Crossover Potential". `http://www.fctd.info/assets/newsletters/pdfs/297/FCTD-TechVoices-dec11.pdf?1328043944`

Webinars

"Accessibility, Usability and Health Information Technologies: Key Tools in Redesigning the Future of Person-Centered Services for Individuals Aging with and into Disability", Margaret Campbell (NIDILRR), Kathleen McCoy (NIDILRR), and Samantha Meklir (Office of the National Coordinator for Health IT, HHS).American Society on Aging, part of the "Disabilities in Aging: A Future Redesigned" Series. December 15, 2015.

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

"Natural Language processing and AAC: Current advances at the interface between technology and communication", Annalu Waller, Brian Roark, Melanie Fried-Oken, Kathleen McCoy, and Alan McGregor. 15th Biennial Conference of the International Society for Augmentative and Alternative Communication, ISAAC 2012, Pittsburgh, PA, July 28-August 4, 2012. 2012. (60 minute presentation)

"SceneTalker: Description of a Research-Driven, Utterance-Based System Design", Kathleen McCoy, Linda Hoag, and Jan Bedrosian. 1 hour presentation at 2011 American Speech-Language-Hearing Association (ASHA) Convention, San Diego, California, November 17-19, 2011.

"Integrating Pragmatic Theory and Empirical Evidence into Utterance-Based System Design", Kathy McCoy, Linda Hoag, Jan Bedrosian. Long (70 Minute) presentation at 14th Biennial Conference ISAAC 2010, International Convention centre of Barcelona (CCIB), from 24th to 29th July 2010.

"Interactive SIGHT Demo: Textual Summaries of Simple Bar Charts", Seniz Demir, David Oliver, Edward Schwartz, Stephanie Elzer, Sandra Carberry, and Kathleen F. McCoy. Demo presented at *The First Workshop on Speech and Language Processing for Assistive Technologies (SLPAT)*, a NAACL 2010 Workshop, Los Angeles, CA, June 2010.

"Effect of Public Setting on a Conversational Hierarchy in AAC", Kathleen McCoy, Jan Bedrosian, Linda Hoag, Meghan Osgood, Nicole Nieboer, Lauren Choi, Malia Mertz, Cassidy Breeden, and Mary Ann Haynos. Poster presented at the American Speech-Language-Hearing Association (ASHA) Annual Convention, Chicago, IL, November, 2008.

"Technological Implications of Relevance Mismatch Findings on Utterance-Based Systems", Kathleen McCoy, Jan Bedrosian, and Linda Hoag. Poster presentation at 13th Biennial Conference of the International Society for Augmentative and Alternative Communication (ISAAC-2008), Montreal, Quebec, August, 2008.

"Effects of Maxim Violation Degree on a Hierarchy of Conversational Trade-offs in AAC", Linda Hoag, Jan Bedrosian, and Kathleen F. McCoy. Poster presentation at 13th Biennial Conference of the International Society for Augmentative and Alternative Communication (ISAAC-2008), Montreal, Quebec, August, 2008.

"Adaptive Word Prediction for AAC", Keith Trnka and Kathleen Mcoy. Poster presentation at 13th Biennial Conference of the International Society for Augmentative and Alternative Communication (ISAAC-2008), Montreal, Quebec, August, 2008.

"Effects of Maxim Violation Degree on a Hierarchy in AAC", Linda Hoag, Jan Bedrosian, and Kathleen McCoy. Poster presentation at The 2007 ASHA Convention, Boston, MA, November, 2007.

"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

Connor Onweller, Prelim Exam Passed 5/2022.

Lauren Olson, Proposal Presented 9/2022, *Improving Quality of Visual Question Answering (VQA) for People with Visual Impairments.*

Leighanne Hsu, Preliminary Exam Passed 12/2018.

Debra Yarrington, defended thesis 5/20/2019, *Simulating Question-Based Visual Scanning for Non-Visual Readers.* Current Position: Assistant Professor, Department of Computer and Information Sciences, University of Delaware.

Priscilla Moraes (co-advisor with M. Sandra Carberry), August 2016. *Generating Textual Summaries at Different Target Reading Levels: Summarizing Line Graphs for Visually Impaired Users.* Current Position: Microsoft, Director of Applied Sciences, Austin Texas

(Ivanka) Zhuo Li (co-advisor with M. Sandra Carberry), May 2016. *Methodologies for Infographics Retrieval.* Current Position: Startup Company.

Keith Trnka, 12/2010. *Word Prediction Techniques for User Adaptation and Sparse Data Mitigation.* Current Position: Software Engineer, 98point6 Inc., Seattle, WA

Seniz Demir (co-advisor with M. Sandra Carberry), 5/2010. *SIGHT for Visually Impaired Users: Summarizing Information Graphics Textually.* Current Position: Research Scientist, TUBITAK-BILGEM (The Scientific and Technological Research Council of Turkey - Center of Research for Advanced Technolgies of Informatics and Information Security), Istanbul, Turkey.

Raymond Kozlowski (co-advisor with Vijay Shanker), December 2005. *Uniform Multilingual Sentence Generation Using Flexible Lexico-grammatical Resources.* Current Position: Computer Science Professor, Blackburn College, Carlinville, IL.

Lisa Michaud, *Modeling User Interlanguage in a Second Language Tutoring System for Deaf Users of American Sign Language*, August 2002.

Mark Jones, *Generating Transparently Motivated Metaphor*, May 1994. Current Position: Associate Professor, Business Administration, Computer Science and Information Technology, Lock Haven University, Lock Haven, 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: Dean of the Golisano College of Computer and

Information Sciences at the Rochester Institute of Technology (RIT), and Director of the School of Information (iSchool). 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. He is now an Assistant Professor at The City Universit of New York (CUNY) and Queens College Graduate Center.

Debra M. Yarrington, *The Automatic Extraction of Diphone Speech Segments with Context-Dependent Boundary Sets*, Co-Advisor: H. Timothy Bunnell, May 1996.

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

Karen Sousa, "The Implications of Early Introduction to Computer Science Education", Thesis Director: Nazim Karaca, Second Reader: Kathleen McCoy. Expected May 2024.

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.

Outside PhD Thesis Examiner

University of Lisbon; Joao Guerreiro, 2016.

University of Dundee, Dundee, Scotland; Martin Dempster, *Supporting Conversation in a Whole-Utterance Augmentative Communication System through the Application of Natural Language Generation*, 2012.

Macquarie University, Sydney, Australia; Henriette Anna Elisabeth Viethen, *Generating natural descriptions. Corpus-based referring expression generation in visual domains*, 2010.

Macquarie University, Sydney, Australia; Maria Milosavljevic, *Maximising the Coherence of Descriptions via Comparison*, 1999.

Selected College/University Committees

Member UD Faculty Senate Ad-hoc Committee on AI Updates, July 2025-present.

Member College of Engineering, Educational Activities Committee, September 2025-present.

Chair University of Delaware Department Chairs Caucus 8/2019-2/2020.

Vice-Chair University of Delaware Department Chairs Caucus, 8/2018-7/2019.

Member University of Delaware Department Chairs Caucus Steering Committee, 8/2017-2/2020.

Chair, College of Engineering Mills Chair Committee (Fall 2020) - Selected Sunita Chandrasekaran, CIS.)

Member - University of Delaware College of Engineering Dean Search Committee, 12/2017-7/2018.

Chair - Chair Search Committee Civil Engineering, Fall 2016-Spring 2017.

Selected Curriculum Innovation and Support (while CIS Department Chair):

> Significant involvement in the establishment of the University Delaware Professional MS Program in Data Science to begin Fall 2018.

> Supporter UD 4+1 GIScience and Environmental Data Analytics Program (led by Delphis Levia, Chair, Department of Geography), to begin Fall 2018.

> Support for CBCB Online Certificate Program in Bioinformatics. Began Fall 2017.

Member - Review committee for reappointment of Linguistics and Cognitive Science Chair. 12/2016-5/2017.

Member College of Engineering Laird Fellowship Committee (spring 2016)

Member of College of Engineering Mills Chair Committee (spring 2016) - Selected Hui Fang, ECE.

Member, College of Engineering Committee on Diversity, September 2016-2020.

Chair, College of Engineering Standing Committee on Diversity, September 2013-August 2014.

Co-Chair, College of Engineering Standing Committee on Diversity, 2012-August 2013.

Member ECE CIS Computing Strategic Review Committee 2012.

Member College of Engineering Computer and IT Cluster Recruiting Committee 9/1/10-8/31/11.

Judge for the Engineering and Science Posters, University of Delaware McNair, UUS Scholars Symposium, August, 2005, 2006, 2007.

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

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.

Selected CIS Department 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); 2/1/09-1/31/12, 2/1/12-1/31/15 (On sabbatical leave 9/1/14-9/31/15), 2/1/15-1/31/18 (did not complete because became chair), 2/1/22- 1/31/24 (On sabbatical leave 9/1/2022-8/21/2023), 2/1/24-1/31/2027.

Member, Planning MS in AI Committee, 24-25.

Special advisor to the CIS Chair, 9/2021-9/2022.

CIS Space Liason, 9/2021-8/2022. Continued involvement with FinTech Building.

Chair, CIS Academic Program Review Committee, 9/2021-10/2022. Responsible for writing the department self-study and managing the site visit October 2-4, 2022.

Member CIS CERAD (Community Enrichment, Retention, Awards, and Diversity) Committee, 9/2021-8/2022.

Advisory Role to CIS Strategic Planning (SPICE) Committee, 9/2021-8/2022.

Advisor to CIS Alumni Development Committee, 9/2021-8/2022.

Member, CIS Faculty Recruiting Committee, 9/2013-8/2014.

Chair, Department of Computer and Information Sciences Publicity Committee, 8/2012-8/2013.

Member ECE CIS Computing Strategic Review Committee 2012.

Member of Department of Computer and Information Sciences Recruiting Committee, 9/1/2007-8/31/2008, 12/2008-8/31/09.

Computer Science Graduate Program Committee Member, 9/1/2009-8/31/2010.

Computer Science Representative on Interactive Media Minor Committee, 9/1/2007-8/31/2010.

Member of Department of Computer and Information Sciences Space Committee, 9/1/2005-8/31/2006, 9/1/2008-8/31/2009.

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

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

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

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