

Curriculum Vitae

Melanie J. Martin

Department of Computer Science
California State University, Stanislaus
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RESEARCH INTERESTS

Artificial Intelligence
Information Retrieval
Data Mining
Health Informatics
Machine Learning
Computational Linguistics/Natural Language Processing

EDUCATION

Degrees

Ph.D.	Computer Science	New Mexico State University	August 2005
M.A.	Mathematics	University of Oregon	December 1993
B.S.	Mathematics	University of Texas at Austin	December 1990

Educational Experience

New Mexico State University, Las Cruces, NM 8/94—8/05
Ph.D. Student (Computer Science), 1/98 to 8/05
Advisor: Roger T. Hartley
Dissertation Title:
Reliability and Verification of Natural Language Text on the World Wide Web
Ph.D. Student (Mathematics), 8/94 to 12/97
Advisor: Susan M. Hermiller

University of Oregon, Eugene, OR 9/91--6/94
M.A. (Mathematics), December 1993

University of Texas at Austin, Austin, TX 1/89--12/90
B.S. (Mathematics), December 1990
Advisor: Karen K. Uhlenbeck
Senior Thesis:
Two and Three Manifold Topology: Advanced Mathematics from an Elementary Standpoint

Austin Community College, Austin, TX 8/88--12/88
Mathematics

California State University, Hayward, Hayward, CA 6/85--3/88
Art and Mathematics

University of California, Berkeley, Extension, Berkeley, CA 2/84--12/84
Financial Planning

California State University, Chico, Chico, CA 8/77--5/78
Latin American Studies 1/75--5/75
Advisor: Beverly Chinas
In 1978, designed and worked on a research project in Anthropology:
Indigena vs. Ladina and Religious Differences between Woman in Cunen, Quiche, Guatemala

University of California, Berkeley, Berkeley, CA 6/75--8/75
Art History

Butte College, Oroville, CA 1/75--6/75

ACADEMIC WORK EXPERIENCE

California State University, Stanislaus
Associate Professor of Computer Science starting 8/11
Assistant Professor of Computer Science 9/06—8/11
Visiting Lecturer in Computer Science and Mathematics 9/05—8/06

Computing Research Laboratory and Department of Psychology 1/02—10/09
New Mexico State University
Subcontractor (8/05 to 10/09)
Programmer (8/04 to 8/05)
Research Assistant (1/02--8/04)

Dept. of Computer Science, New Mexico State University 1/98—12/03
Undergraduate Pathways Coordinator (1/03--12/03)
Teaching Assistant (8/98--12/01, 8/02--12/02)
Research Assistant (1/99--5/00)

Dept. of Mathematics, New Mexico State University 8/94--5/97
Teaching Assistant (8/94--5/97)

Dept. of Mathematics, University of Oregon 9/91--6/94
Graduate Teaching Fellow (9/91--6/94)

Dept. of Mathematics, University of Texas at Austin 9/89--12/90
Geometry Grader (9/89--12/90)

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Association for Computational Linguistics (ACL)
American Association for Artificial Intelligence (AAAI)
Association for Computing Machinery (ACM)

Association for Women in Mathematics (AWM)
Member, Spring 1992 through 1998

PUBLICATIONS

Journal Articles

Melanie J. Martin (2011). Reliability and Type of Consumer Health Documents on the World Wide Web: an Annotation Study. *Journal of Biomedical Semantics* 2011, **2**(Suppl 3):S5 (14 July 2011).

Janyce Wiebe, Theresa Wilson, Rebecca Bruce, Matthew Bell, and **Melanie Martin** (2004). Learning subjective language. *Computational Linguistics* 30 (3), September 2004, pp. 277-308.

Book Chapters

Peter W. Foltz, Adrienne Y. Lee, Gary Bond and **Melanie J. Martin** (2009). Models, Methods, and Tools for the Adaptability of Teams. *Advanced Decision Architectures for the Warfighter: Foundations and Technology*. Patricia McDermott and Laurel Allender (editors). Army Research Laboratory Advance Decision Architectures Collaborative Technology Alliance.

Peter W. Foltz and **Melanie J. Martin** (2008) Automated Communication Analysis of Teams. *Team Effectiveness in Complex Organizations: Cross-disciplinary perspectives and approaches*. Eduardo Salas, Gerald F. Goodwin, C. Shawn Burke (editors). Routledge, Psychology Press, New York, NY.

Refereed Conference and Workshop Papers

Melanie J. Martin (2010). Reliability and Type of Consumer Health Documents on the World Wide Web: an Annotation Study. NAACL '10 Second Louhi Workshop on Text and Data Mining of Health Documents. June 5, 2010, Los Angeles, CA.

Robert R. Silverman and **Melanie J. Martin** (2008). Design of a pedagogical assembly language and classroom experiences. *Journal of Computing Sciences in Colleges*, Volume 23, Number 4 (Apr. 2008), 208-214.

Peter W. Foltz, **Melanie J. Martin**, Ahmed Abdelali, Mark Rosenstein and Rob Oberbreckling (2006). Automated Team Discourse Modeling with Latent Semantic Analysis. *CogSci 2006*.

Nemecio R. Chavez, Jr., **Melanie J. Martin** and Enrico Pontelli (2005). Pathways: A Student-Centered Approach to Educational to Educational Success. *The Sun Conference on Teaching and Learning. Cooperative, Collaborative, and Team-Based Learning*. March 4&5, 2005, The University of Texas, El Paso.

Melanie J. Martin (2004). Reliability and Verification of Natural Language Text on the World Wide Web. Paper at *ACM-SIGIR Doctoral Consortium*, July 25, 2004, Sheffield, England.

Melanie J. Martin and Peter W. Foltz (2004). Automated Team Discourse Annotation and Performance Prediction using LSA. *Proceedings of the Human Language Technology and North American Association for Computational Linguistics Conference (HLT/NAACL)*, May 2-7, 2004, Boston, Massachusetts. Short Paper.

Melanie J. Martin (2004). A Holistic Approach to Improving Undergraduate Performance in Gateway Computer Science Courses. *The Sun Conference on Teaching and Learning. Cooperative, Collaborative, and Team-Based Learning*. March 5-6, 2004, The University of Texas, El Paso.

Melanie J. Martin and Enrico Pontelli (2004). A holistic approach to improving undergraduate performance in gateway computer science courses using discrete mathematics as a case study. *Science, Engineering, & Technology Education Conference (SETE) 2004* at NMSU, January 9, 2004.

Jamie C. Gorman, Nancy J. Cooke, Peter W. Foltz, Preston A. Kiekel, and **Melanie J. Martin** (2003). Evaluation of Latent Semantic Analysis-Based Measures of Team Communications Content. *Proceedings of the Human Factors and Ergonomic Society 47th Annual Meeting*, HFES 2003.

Preston A. Kiekel, Nancy J. Cooke, Peter W. Foltz, Jamie C. Gorman, and **Melanie J. Martin** (2003). Methods for the Analysis of Team Communication. Technical Report for ONR Grant No. N00014-00-1-0818.

Preston A. Kiekel, Nancy J. Cooke, Peter W. Foltz, Jamie C. Gorman, and **Melanie J. Martin** (2002). Some Promising Results of Communication-Based Automatic Measures of Team Cognition. *Proceedings of the Human Factors and Ergonomic Society 46th Annual Meeting*, 298-302. Baltimore, MD, September 30-October 4, 2002.

Janyce Wiebe, Rebecca Bruce, Matthew Bell, **Melanie Martin** and Theresa Wilson. (2001). A Corpus Study of Evaluative and Speculative Language. *2nd SIGdial Workshop on Discourse and Dialogue*, Aalborg, Denmark, September 1-2, 2001.

Other

Melanie J. Martin (2005). *Reliability and verification of natural language text on the World Wide Web*. Ph.D. Dissertation. New Mexico State University Branson Library QA 1995 .M37 2005.

Janyce Wiebe, Theresa Wilson, Rebecca Bruce, Matthew Bell, and **Melanie Martin**. (2002). Learning subjective language. (Extended version of a journal article.) Department of Computer Science Technical Report TR-02-100. University of Pittsburgh, Pittsburgh, PA.

Melanie J. Martin, Nemecio Chavez Jr. (2002). Computer Science Teaching Assistant Handbook. Presented at NMSU CS Department TA Meeting August, 21, 2002. Published at <http://www.cs.nmsu.edu/~gradrep/>

Susan Hermiller, **Melanie Martin**, and Eric York (1995). Learning Calculus. Written for NMSU calculus students, currently available several places on the web, including: <http://www.cs.nmsu.edu/~mmartin/pubd/calc1.html>

Posters

Melanie J. Martin (2010). *Reliability and Type of Consumer Health Documents on the World Wide: Annotation Study Results*. CSU Stanislaus RSCA Week 2010, October 4-8, 2010.

Megan Thomas, **Melanie Martin** and Tom Carter (2010). *Exploring Large Data Sets*. CSU Stanislaus RSCA Week 2010, October 4-8, 2010.

Melanie J. Martin and Peter W. Foltz (2010). *Automated Team Discourse Annotation and Performance with LSA*. CSU Stanislaus RSCA Week 2010, October 4-8, 2010.

Melanie J. Martin (2009). *Reliability of Information on Medical Web Pages: Toward a User Interface*. CSU Stanislaus RSCA Week 2009, October 5-9, 2009.

Melanie J. Martin, Peter W. Foltz, Mark Rosenstein, and Rob Oberbreckling (Pearson Knowledge Technologies) & Ahmed Abdelali (NMSU) (2009). *Automated Team Discourse Modeling: Test of Performance and Generalization*. CSU Stanislaus RSCA Week 2009, October 5-9, 2009.

Melanie J. Martin (2008). *Reliability of Information on Medical Web Pages: An Annotation Study*. CSU Stanislaus RSCA Week 2008, September 30-October 2, 2008.

Melanie J. Martin (2008). *Automatic Modeling of Team Discourse with Latent Semantic Analysis*. CSU Stanislaus RSCA Week 2008, September 30-October 2, 2008.

Melanie J. Martin, Peter W. Foltz (2008). *Automated Team Discourse Annotation and Performance Prediction*. In Celebration of Research, CSU Fullerton 50th Anniversary, Fullerton, CA. March 14, 2008.

Melanie J. Martin, Peter W. Foltz (2003). Automatic Modeling of Team Discourse with Latent Semantic Analysis. *NM-AGEP Third Annual Conference*: New Mexico Tech, Socorro, NM, September 11-13, 2003.

Melanie J. Martin, Peter W. Foltz (2003). Team Discourse Modeling and Performance Prediction with Latent Semantic Analysis. *NMSU Graduate Research and Arts Symposium*, April 15, 2003.

Peter W. Foltz, **Melanie J. Martin** (2003). Automated Techniques for Measuring Team Communication. *ARL CMC Meeting*, February 2003.

Peter Foltz, **Melanie Martin** (2002). Automated Techniques for Measuring Team Cognition. *ARL CMC Meeting*, Virginia, September 26, 2002.

Melanie J. Martin (2002). Artificial Intelligence Seminar: 2001-2002 Schedule. For *NSF Minority Institution Infrastructure Grant Site Visit to NMSU CS Department*, June 6, 2002.

Melanie J. Martin (2002). Annotating Flames in Usenet Newsgroups: A Corpus Study. For *NSF Minority Institution Infrastructure Grant Site Visit to NMSU CS Department*, June 6, 2002.

PRESENTATIONS

Computer Science

Exploring Large Data Sets. CSU Stanislaus Mathematics and Computer Science Speaker Series, Turlock, CA, February 25, 2011

Reliability and Type of Consumer Health Documents on the World Wide Web: an Annotation Study. Mathematics and Computer Science Speaker Series. CSU Stanislaus. May 7, 2010.

Is What You're Reading True? Mathematics and Computer Science Speaker Series. CSU Stanislaus. April 21, 2009.

Reliability of Medical Information on the World Wide Web, presented at In Celebration of Research, CSU Fullerton 50th Anniversary, Fullerton, CA. March 14, 2008.

LSA: From Information Retrieval to Team Performance. Mathematics and Computer Science Speaker Series. CSU Stanislaus. September 28, 2007.

Another Ride on the Crazy Train: Work/Life "Balance" presentation at the Grace Hopper Celebration of Women in Computing 2006, San Diego, CA. October 6, 2006.

Typing Lavender: LGBT Women in Computer Science. Birds-of-a-Feather presentation at the Grace Hopper Celebration of Women in Computing 2006, San Diego, CA. October 5, 2006.

Is What You're Reading True? (2005). Invited talk at annual meeting of the Rio Grande Chapter of the Special Libraries Association, May 13, 2005. Invited talk (technical version) at Los Alamos National Laboratory, April 25, 2005.

LSA: From Information Retrieval to Team Performance (2005). TAMUCC Computer Science Department, April 28, 2005. CSU Stanislaus Computer Science Department, February 24, 2005.

Report on Grace Hopper Conference (2004). NMSU CS Department Seminar, October 20, 2004.

Discussion: Language Understanding: Recognition or Construction (2003). NMSU CS Department AI Seminar, February 24, 2003 with Nemecio Chavez.

Introduction to Latent Semantic Analysis (2002). NMSU CS Department AI Seminar, October 14, 2002.

Identifying Ideological Point of View (2001). NMSU CS Department AI Seminar, two talks: August 29 and September 5, 2001.

Groups and Automata (1996). Invited talk: Mathematics Department Colloquium at Sul Ross State University, Alpine, Texas. February 16, 1996.

Mathematics

Something about Knot Theory: Knot Coloring (2009). Joint talk on Knot Invariants with Heather Coughlin. Mathematics and Computer Science Speaker Series. CSU Stanislaus. November 10, 2009.

Computers (1996). NMSU Mathematics Graduate Student Seminar with John Pierce, February 12, 1996

Matroids (1995). NMSU Mathematics Friday Afternoon Seminar, June 30, 1995 and July 7, 1995.

Classification of Closed Two-Manifolds (1995). NMSU Mathematics Graduate Student Seminar, March 27, 1995.

Not Knot (1994-1995). NMSU Mathematics Graduate Student Seminar, January 23, 1995. NMSU Mathematics Topology Seminar, December 7, 1994.

Knot Colorings (1994). Invited talk: Mathematics Department Colloquium at Sul Ross State University, Alpine, Texas. September 29, 1994.

Knot Crystals (1994). NMSU Mathematics Topology Seminar, November 2, 9, and 16, 1994.

Coloring Knots (1994). NMSU Mathematics Topology Seminar, October 26, 1994.

State Sum Invariants of Three-Manifolds and the Quantum 6J-Symbols (1993). Three talks in the University of Oregon Topology/Geometry Seminar, Spring 1993.

Knot Coloring (1992). University of Oregon Topology/Geometry Seminar, Spring 1992.

Applying Group Theory to Groups of People (1991). Lecture to Honors Mathematics Course, Fall 1991.

Other

Graduate School in Mathematics and Computer Science. Mathematics and Computer Science Speaker Series. CSU Stanislaus. September 10, 2010.

Financial Literacy. CSU Stanislaus Summer Bridge Program, July 21, 2010.

Tools and Tech for Academics. Panel Facilitator, CSU Stanislaus, RSCA Week 2009, October 8, 2009.

RSCA Display. Workshop with Marina Gerson at the CSU Stanislaus Faculty Center for Excellence in Teaching and Learning on September 16, 2009 and September 22, 2009.

A Panel Discussion Graduate School in Computer Science. Mathematics and Computer Science Speaker Series. CSU Stanislaus. September 29, 2009.

Displaying Your RSCA Activities. Workshop with Marina Gerson at the CSU Stanislaus Faculty Center for Excellence in Teaching and Learning on March 16, March 19, April 29, and April 30, 2009.

Everything you need to know about graduate school... Mathematics and Computer Science Speaker Series. CSU Stanislaus. September 14, 2007.

Everything you wanted to know but were afraid to ask, panel at NMSU Graduate School Professional Development Workshop 2004, moderated by Dr. Elba Serrano, August 18, 2004.

Panel of Graduate Studies in Mathematics (1993). Symposium on Graduate Study for Undergraduate Women, Oregon State University, April 16, 1993.

Health Care in Rural Guatemala: A Personal Perspective (1979). Pacific Coast Council on Latin American Studies, October 1979.

AWARDS AND HONORS

Army High Performance Computing Research Center Grant with Tom Carter, Megan Thomas and Peggy Hauselt to train undergraduate students to perform research on large data sets for 2011-2012 academic year.

CNS Dean's Travel Initiative funds to attend Association for Advancement of Artificial Intelligence in San Francisco, CA. August 7-11, 2011.

College of Natural Sciences Faculty Research Enhancement Grant. "Reliability of Information on Medical Web Pages: User Interface Enhancement." 2011.

Army High Performance Computing Research Center Grant with Tom Carter and Megan Thomas to train undergraduate students to perform research on large data sets for 2010-2011 academic year.

CNS Dean's Travel Initiative funds to attend North American Association for Computational Linguistics (NAACL) conference and Louhi workshop in Los Angeles, CA. June 1-6, 2010.

Subcontractor on Army Research Laboratory (ARL) Research grant, through NMSU Computing Research Laboratory and Psychology Department to conduct team communication research. August 2005 through September 2009.

CNS Dean's Travel Initiative funds to attend North American Association for Computational Linguistics (NAACL) conference in Boulder, CO. June 1-5, 2009.

Naraghi Faculty Research Enhancement Grant for 2008-2009 from CSU Stanislaus College of Natural Sciences to fund: Reliability of Information on Medical Web Pages: User Interface Development.

Naraghi Faculty Research Enhancement Grant for Spring 2008 from CSU Stanislaus College of Natural Sciences to fund: Reliability of Information on Medical Web Pages: Annotation Study.

NSF Advance Travel Grant to attend Forward to Professorship Workshop in Washington, D.C., May 2005.

ACM SIGIR Travel Grant to attend Doctoral Consortium in Sheffield England, July 2004.

Recognized for service to the NMSU Graduate Student Council at the Graduate Research and Arts Symposium Banquet, April 2004.

Appointed to President's Commission on the Status of Women at NMSU, October 2003.

Acting Director, NMSU Women's Studies Program, October-November 2002.

Social Justice Scholarship. Recipient of a NMSU Department of Government Social Justice Scholarship for work in health service, LGBT rights, women's issues and documenting harassment, February 2002.

GAANN Fellow. Awarded GAANN Fellowship by NMSU Department of Computer Science, January 1998 through December 2001.

Keeper of the Flame Award. Recipient of Keeper of the Flame Award from Coalition for Equality in New Mexico, September 1998.

State of New Mexico Commission on Higher Education Graduate Fellowship. September 1994 through May 1997.

Institute for Advanced Study (IAS) - Park City Summer School. Selected as a participant and awarded a scholarship to participate in summer school on Four-Manifold Topology and Geometry and the **Women's Program** at IAS in Princeton in 1994.

Scholarship from the University of Texas at Austin, based on academic achievement, 1989-1990 academic year.

Dean's List for 1985-1986 academic year, California State University, Hayward.

Lithograph "Reflections" in 1986 juried student art show, CSU Hayward.

Scored in top 20, nationwide, on 1983 Special Enrollment Examination given by the Internal Revenue Service.

TEACHING SUMMARY

COURSES TAUGHT

California State University, Stanislaus

Statistics, Discrete Mathematics, Finite Mathematics, Computer Programming I, Computer Programming II, File Structures, Data Structures and Algorithms, Programming Languages (upper division writing proficiency course), Compiler Theory, Artificial Intelligence, Senior Seminar, Practicum in Computer Science, Independent Study in Computer Science Honors Thesis.

New Mexico State University

C Programming, Calculus I, Calculus II
Calculus for Engineering Technology

University of Oregon

College Algebra, Math Symmetry
University Math 1, University Math 2

TA FOR COURSES

New Mexico State University

Introduction to Data Structures
Automata, Languages, Computability (Graduate Course)
Computer Literacy

PROGRAM COORDINATION

NMSU CS Undergraduate Pathways Program

Goals: Under-represented minority recruitment and retention,
 emphasis on Native Americans and Hispanics
Provide support, challenge and opportunity for all undergraduate CS majors
Program: I Designed, implemented and coordinated:
 Student-centered support and challenge in gateway courses through
 Focus groups
 Peer mentoring
 Web-based support
 Training TAs
Teaching teams for each gateway course
Student tracking database
Networking with other NMSU student service and support organizations
Social events to build cohesion

LANGUAGE FLUENCY

Native English speaker
Fluent in Spanish
Good reading skills in French

PROGRAMMING LANGUAGES

C, C++, Perl, Python
Some Prolog, Java, ML, Fortran

SERVICE

California State University, Stanislaus

2010 – 2011 Committees

- Student Success Committee
- CNS Analyst Search Committee, Chair
- CNS Budget Planning Committee, Chair
- CNS Executive Committee
- RSCA Week 2010
- Mathematics and Computer Science Speaker Series, Co-Chair
- Computer Science Department Budget Committee, Chair

2009 – 2010 Committees

- University Educational Policies Committee (UEPC)
- RSCA Policy Committee (RSCAPC)
- Student Success Committee
- CNS Budget Planning Committee, Chair
- CNS Executive Committee
- RSCA Week 2009, Co-Chair
- Mathematics and Computer Science Speaker Series, Co-Chair
- Computer Science Department Budget Committee, Chair

2008 – 2009 Committees

- University Writing Committee
- Student Success Committee
- CNS Budget Planning Committee, Chair
- CNS Executive Committee
- RSCA Week 2008, Co-Chair
- Mathematics and Computer Science Speaker Series, Co-Chair
- Computer Science Department Budget Committee, Chair
- Mathematics Department: *Mathematica* Implementation Committee (MIC)

2007 – 2008 Committees

- University Writing Committee
- Student Success Committee
- RSCA Week 2008, Co-Chair
- CNS Budget Planning Committee, Chair
- Mathematics and Computer Science Speaker Series, Co-Chair
- CS 1500 Committee in Mathematics Department, Co-Chair
- Mathematics Department: *Mathematica* Implementation Committee (MIC)
- Digital Media Program Development

2006 – 2007 Committees

- Student Success Committee
- CNS Budget and Planning Committee, Founding Chair
- Mathematics and Computer Science Speaker Series, Co-Chair
- Mathematics Department: *Mathematica* Implementation Committee (MIC)
- Computer Science Curriculum Committee
- Cognitive Science Program planning discussions

Dinner with a Scientist, March 2007, March 2008, March 2009 and March 2010

Dinner with a Math of Science Teacher, May 2009

Judge for CSU Stanislaus Graduate Student Research Competition, Turlock, CA, March 2009.

Science Olympiad, Compute This! Coordinator for Division B. March 2007.

New Mexico State University

Departmental

Organized a group of 5 students and 3 faculty members from the NMSU Computer Science Department to attend the Grace Hopper Celebration of Women in Computing in Chicago, October 6-9, 2004.

Computer Science Graduate Student Organization

President, Fall 1998 through Summer 1999 and Summer 2002 through Summer 2003

Treasurer, Fall 1999 through Spring 2002 and Fall 2003 through Spring 2004

NMSU CS AI Seminar, founder and organizer, Fall 2001 through Spring 2003.

Organized student participation in NSF Site Visit for Minority Institution Infrastructure Grant (received). Included a student meeting with site visitors and a poster session with 22 research posters. June 2002.

NMSU Mathematics Friday Afternoon Seminar, founder and organizer, June 1995 through May 1996.

NMSU Mathematics Department Graduate Student Liaison

Fall 1994 through Spring 1996

University

President's Commission on the Status of Women

Member January 2004 to August 2005

Member of Subcommittee on Monitoring Trends and Policies

Attended National NSF-ADVANCE conference in April 2004

Selection Committee for NMSU Government Department Social Justice Award

Member April 2004, April 2005

NMSU Women's Studies Steering Committee

Acting Director, October-November 2002

Member, November 2001 through July 2003

Gay and Lesbian Faculty and Staff at NMSU

Member, Fall 1994 to August 2005

Co-Facilitator, Spring 1996 through Spring 1998

Student Health Center Advisory Committee

Graduate Student Representative, April 2001 through May 2004

Corbett Center Student Union Advisory Board

Graduate Student Representative, November 1999 through May 2001

NMSU Differential Tuition Committee

Graduate Student Representative, October 2000

ASNMSU Elections Board

Graduate Student Representative, Fall 1998 through Spring 2000

Student Organizations

Associated Students of NMSU (ASNMSU) Graduate Student Council

Webmaster and listserv manager, Fall 2001 through October 2003

Vice-President and Treasurer, Fall 1998 through Spring 2000

Judge for Graduate Research and Arts Symposium 2001, 2003

Organizing Committee for Graduate Research and Arts Symposium 2002, 2003