

CURRICULUM VITAE

MARIA M. KLAWE

July 2017

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EDUCATION

B.Sc., Mathematics, University of Alberta, 1973
Ph.D., Mathematics, University of Alberta, 1977
Graduate Studies, Computer Science, University of Toronto, 1979

PROFESSIONAL EMPLOYMENT RECORD

2006 – present President, Harvey Mudd College
2003 - 2006 Dean of Engineering and Professor of Computer Science, Princeton U.
1998 - 2002 Dean of Science, University of British Columbia (UBC)
1997 - 2002 NSERC-IBM Chair for Women in Science and Eng. for BC and the Yukon
1995 - 1998 Vice President, Student & Academic Services, UBC
1988 - 2002 Professor, Department of Computer Science, UBC
1988 - 1995 Head, Department of Computer Science, UBC

1980 - 1989 IBM Almaden Research Centre, San Jose, California
- 1985-87 Manager, Mathematics and Related Computer Science Department
- 1984-88 Manager (and founder), Discrete Mathematics Group
- 1980-84 Research Staff Member, Foundations of Computer Science Group

1978 - 1980 University of Toronto, Toronto, Ontario
- 1978-79 Part-time Lecturer, Department of Computer Science
- 1979-80 Assistant Professor, Department of Computer Science

1977 - 1978 Oakland University, Rochester, Michigan, Assistant Professor
Department of Mathematical Sciences

PROFESSIONAL ACTIVITIES

a. *Academic or professional awards and distinctions:*

Weiss Cup, Strathcona Composite High School, Edmonton, 1968
INCO Scholarship, 1968-71
NRC Postgraduate Fellowship, 1973-77
NRC Postdoctoral Fellowship 1977
IBM Outstanding Innovation Award for Matrix Searching, 1989
IBM Canada Centre for Advanced Studies Award for Contributions to University-Industry Relations, 1992
Counting on Frank (EA Kids, 1994) selected by PC Magazine as a top ten educational CD-ROM in 1995
Fellow of ACM, 1996.
YWCA Woman of Distinction in Science and Technology, Vancouver, 1997
NSERC-IBM Chair for Women in Science & Eng. for BC and the Yukon, 1997-2002
Wired Woman Pioneer Award, 2001
Canadian New Media Association Educator of the Year Award, 2001
Honorary Doctorate, Ryerson Polytechnic University, 2001
BC Science Council Champion of the Year, 2001
Regent's Lecturer, UC Berkeley 2002
Commencement speaker, Mathematics Convocation, UC Berkeley, 2002
Distinguished Alumni Award, University of Alberta, 2003
Honorary Doctorate of Mathematics, University of Waterloo, 2003
Honorary Doctorate of Science, Queen's University, 2004
Nico Habermann Award, Computing Research Association, 2004
Honorary Doctorate, Dalhousie University, 2005
Honorary Doctorate, Acadia University, 2006
Founding Fellow Canadian Information Processing Society, 2006
Honorary Doctorate, University of Alberta, 2007
Honorary Doctorate, University of Ottawa, 2008
Honorary Doctorate, Mount Saint Vincent University, 2009
Fellow, American Academy of Arts and Sciences, 2009
Honorary Doctorate, University of British Columbia, 2010
Honorary Doctorate of Public Service, University of Maryland, Baltimore County, 2011
Denice Denton Hall of Fame, Portland State University, 2012
Inaugural Fellow, American Mathematical Society, 2013
Women of Vision ABIE Award for Leadership, 2014
No. 17, Fortune's list of the World's 50 Greatest Leaders, 2014
Lifetime Achievement Award, Canadian Association of Computer Science, 2015
American Association of University Women Achievement Award, 2015
Honorary Doctorate, University of Toronto, 2015
US News STEM Solutions Leadership Hall of Fame Honoree, 2015
Honorary Doctorate, McMaster University, 2016
Honorary Doctorate, Concordia University, Montreal, 2016
Computing Research Association Distinguished Service Award, 2016
Honorary Doctorate, University of Lethbridge, 2017

b. *Membership on editorial Boards:*

1985-present Member of editorial board of *Combinatorica*

1994-present Electronic Journal of Combinatorics
1987-93 Co-founder, member editorial board, SIAM Journal on Disc. Math.
1986-93 Member of editorial board of SIAM Journal on Computing

g. *Membership of peer review committees:*

Stanford Computer Science Visiting Committee, 2017
Review of Department of Computing and Information Services, Spelman College, 2016
Canada Excellence Research Chairs Selection Board, 2012 – present
ACM Fellows Committee, 2014
Engineering Advisory Council, Stanford, 2011 – 2015
Review of CITRIS, U.C. Berkeley, 2011
Committee of Visitors on Undergraduate Education, MIT, 2006 - 2012
Committee of Visitors on Sponsored Research, MIT, 2005 - 2009
Review of Strategic Plan of Engineering, Waterloo University, 2006
Review of Faculty of Computer Science, Dalhousie University, 2001
Review of Department of Psychology, University of Toronto, 1999
Review of the Faculty of Graduate Studies, University of Alberta, 1997
Review of Department of Computer Science, University of Victoria, 1995
President's Ad Hoc Committee, Harvard University, 1991
Review of Department of Computer Science, University of Manitoba, 1990
Review of Department of Computer & Information Science, Queen's University, 1990

d. *Positions as officer in professional societies and organizations (recent):*

2014-present Fulbright Canada Board of Directors
2014-present Board of Directors Chair, EdReports.org
2012-2014 Co-Chair, Scientific Advisory Board, Simons Institute, UC Berkeley
2011-2016 Director, Broadcom Corporation
2009-2015 Director, Microsoft Corporation
2007-present Director, Math for America Board
2004-present Trustee, Mathematical Sciences Research Institute, CA
2004-present Executive Advisory Board, National Center for Women in IT
2004-present Advisory Board, Computer Science Teachers Association (CSTA)
2008-2011 Trustee, Anita Borg Inst. for Women in Technology, Palo Alto
2003-2008 Chair of Trustees, Anita Borg Inst. for Women in Technology, Palo Alto
2004-2006 Past President, Association of Computing Machinery, NY
2003-2006 Trustee, Institute for Pure and Applied Mathematics, UCLA
2002-2004 President, Association of Computing Machinery, NY
2000-2002 Vice-President, Assoc. Computing Machinery, NY
2000-2006 International Advisory Committee, Alberta Ingenuity Foundation
1998-2003 Trustee, Institute for Women in Technology, Palo Alto
1992-2001 British Columbia Premier's Advisory Council on Science & Technology
1997-2001 Western Technologies Seed Investment Fund Advisory Board
1998-2000 ACM Council, Member at Large
1995-97 Board of Post-Secondary Application Service of British Columbia
1990-97 Board of Governors, Science World, British Columbia
1992-97 Board of Trustees, American Mathematical Society (Chair 95-96)
1990-96 Board of the Computing Research Association (Vice-Chair 93-95)

Conference Organization (recent):

2017 Building Recruiting and Inclusion for Diversity Conference, Claremont, CA
2016 Building Recruiting and Inclusion for Diversity Conference, Snowbird, Utah
2015 Building Recruiting and Inclusion for Diversity Conference, Claremont, CA
2012 Sunnylands Retreat on Reforming U.S. Mathematics Education
2011 HMC President's Circle of Women Leaders in Tech, Facebook, Palo Alto
2005 ABI TechLeaders Workshop, Microsoft Research, Redmond
2004 Institute for Women and Technology Leadership Workshop, Los Angeles
2002 International Conf. Women in Engineering and Science, Ottawa
2001 Educators Day, ACM1, San Jose
2000 Senior Summit, Grace Hopper Celebration Women in Comp., Cape Cod
2000 Getting I.T. (more representative), Vancouver
1999 Women, Work and Computerization 2000, Vancouver
1998 Honorary Chair: Women in the Workplace, Vancouver
1997 Associate Chair, Papers, CHI'97 Conf. on Human Factors in Comp. Syst.
1996 Co-chair, BC Conference on Electronic Highway
1996 Moderator, B.C. Premier's Forum on Youth

f. *Invited symposia lectures (recent):*

IEEE Women in Engineering International Leadership Conference, San Jose, CA, 2017
Times Higher Education Young Universities Summit, Brisbane, Australia, 2017
Panelist, Accenture International Women's Day Event, 2017
California Higher Education Innovation Council, Santa Clara, CA, 2017
SC16 Conference, Plenary Session, 2016
Stanford SAILORS Conference, Palo Alto, CA, 2016
Women in Science and Engineering (WISE), Stanford University, Palo Alto, CA, 2016
Collision Conference, New Orleans, 2016
International Women's Forum World Leadership Conference, Boston, 2015
Panelist, Fortune Most Powerful Women Summit, Washington, D.C., 2015
National Coalition of Girls' Schools Conference, Richmond, VA, 2015
American Society for Engineering Education Annual Conference, Seattle, 2015
ITechLaw Conference, San Diego, 2015
ASU + GSV Summit, Scottsdale, AZ, 2015
ACM Richard Tapia Celebration of Diversity in Computing, 2015
EDUCAUSE Connect, San Diego, 2015
National Council of University Women in Mathematics Conference, Lincoln, NE, 2015
Milken Institute Summit, Santa Monica, CA, 2014
Grace Hopper Celebration of Women in Computing, 2014
Silicon Valley Education Summit, Mountain View, CA, 2014
Computing Research Association Conference, Snowbird, UT, 2014
Fortune Brainstorm Tech Conference, Aspen, CO, 2014
White House Working Families Summit, Washington, D.C., 2014
Union College Engineering Symposium, Schenectady, NY, 2014
WISEST Symposium, University of Alberta, Canada, 2014
The Code Conference, Rancho Palos Verdes, CA, 2014
American Society for Biochemistry and Molecular Biology Annual Meeting, San Diego, 2014
New America Foundation Event, Washington, D.C., 2014
Consortium for Computing Sciences in Colleges South Western Region Conference, Northridge, CA, 2014

MAKERS Conference, Rancho Palos Verdes, CA, 2014
Ontario Celebration of Women in Computing, Waterloo, 2013
Women in STEM Luncheon, GSV Advisors, Chicago, 2013
Grace Hopper Celebration of Women in Computing, Minneapolis, MN, 2013
Stanford Changemakers Symposium Keynote, Anaheim, CA, 2013
Tapestry Symposium Keynote, Miami, FL, 2013
WEPAN Keynote, Atlanta, GA, 2013
USNWR STEM Summit, Austin, TX, 2013
Smithsonian Centenary Summit, Washington, D.C., 2013
UBC Computer Science 45th Anniversary Keynote, BC, 2013
ASU/GSV Education Innovation Summit, Scottsdale, AZ 2013
Amazon Women in Engineering (AWESome) Conference Keynote, Seattle, WA, 2013
Computing Education 21 Keynote, Portland, OR, 2013
ASTE Keynote, Charleston, SC, 2013
ELATE at Drexel, Lafayette, PA, 2012
On-Ramps into Academia Conference, Seattle, WA, 2012
Grace Hopper Celebration of Women in Computing, Baltimore, MD, 2012
Fortune Most Powerful Women Summit, Laguna Niguel, CA, 2012
Facebook Technical Women Retreat Keynote, San Francisco, CA, 2012
Intel Women's Principal Engineers and Fellow Forum, Hillsboro, OR, 2012
Women in Theory, Princeton, NJ, 2012
White House Forum on Women and the Economy, Washington, D.C., 2012
Stanford She++ Conference, Palo Alto, CA, 2012
Boston University Graduate Women in Science and Engineering, Boston, MA, 2012
Annenberg Retreat at Sunnylands Moment Symposium, Rancho Mirage, CA, 2012
Renaissance Institute Weekend, Santa Monica, CA, 2012
AAUW San Diego, 2011
WCF IFIP World CIO Forum Plenary, Shenzhen, China, 2011
NCRW Conference Keynote Panel, Claremont, CA, 2011
Grace Hopper Celebration of Women in Computing, Portland, 2011
Computer Science College Conference Keynote, Richland, WA, 2011
Creating Connection 2.0 Keynote, Vancouver, BC, 2011
M-Best Keynote, Menlo Park, CA, 2011
Sparks Forum (DLS), Georgia Tech, Atlanta, GA, 2011
Festival of Teaching Keynote, University of Alberta, Edmonton, AB, 2011
Ohio Celebration of Women in Computing Keynote, Perrysville, OH, 2011
Directors College, Stanford Law School, 2010
Walt Disney Animation Studios, Burbank, CA, 2010
The Trusteeship, Cal State Northridge, 2010
Heinz Ethics Dinner (Keynote), Pasadena, CA, 2010
Microsoft Women's leadership and Development Conference (Keynote), Redmond, 2009
Tapia Celebration of Minorities in Computing (Keynote), Orlando, 2007
Grace Hopper Celebration of Women in Computing (Keynote), Orlando, 2007
MSRA Gaming and Graphics Workshop (Keynote), Beijing, 2007
Microsoft Academic Days on Game Development (Keynote), Orlando, 2007
Amazon Developer's Conference, Seattle, 2007
MSRI Tech Vista (Keynote), Bangalore, 2006
ITICSE (Keynote), Lisbon, Portugal, 2005
SIGCSE (Keynote), St. Louis, 2005

Girl Power (Keynote), Annual Meeting of Nat. Coal. Girls Schools, San Francisco, 2004
 Anita Borg Celebration (Keynote), Stanford University, CA, 2003
 OWLS Workshop (Keynote), Northampton, MA, 2003
 University of Michigan Women in Science and Engineering Leadership Retreat (Keynote), Ypsilanti, MI, 2003
 Girls, Technology and Education, Pittsburgh 2001
 Richmond Schools Prof. Development Day on Social Responsibility 2001
 Gordon Conference on Innovation in Chemistry Teaching, Ventura 2001
 BC Principals and Vice-Principals Annual Conference (Keynote), Burnaby 2000
 Horizons 2000 (Keynote) Annual Conf. Computer Using Educators, Burnaby 2000.
 IEEE Annual Conference, Vancouver 2000
 AMTEC 2000 (Keynote), Vancouver 2000
 NISE Forum, Detroit, 2000
 Countdown (Keynote), Burnaby Principals Conference, Burnaby, 2000
 Catalyst 2000, BC Science Teachers Annual Meeting, Whistler, 2000
 STARS Conference, (Keynote) Regina, 2000
 Exploring IT (Keynote), Calgary, AB 1999
 Society for Computers in Psychology, Los Angeles, CA 1999
 Gender and Computer Science (Keynote), Saskatoon, 1999
 IBM America's Women's Leadership Conference, Vancouver, BC 1999
 NSF Workshop on Improving Undergraduate Education in the Mathematical and Physical Sciences through Use of Technology, Arlington, VA 1999
 Olga Taussky Todd Celebration (Panel), Berkeley, CA 1999
 Graphics Interface 99 (Keynote), Kingston, Ontario 1999
 FCRC Computing Research Association Workshop on Research Careers for Women in Computer Science and Engineering. Atlanta, GA 1999.
 IT Implementation Forum, Burnaby, BC 1999.
 Celebration Of Women in Math., Stat. & Comp. Sci. (Public Lecture), Waterloo 1998
 NCTM Standards 2000 Technology Conference, Arlington, VA 1998
 NCTM Annual Meeting (Keynote), Washington, DC 1998
 Can. Math. Soc. Winter Meeting (Public Lecture), Victoria, BC 1997
 M.A.A. Pacific Northwest Section Meeting (Keynote), Bellingham, WA, 1997.
 Western Can. Conf. Computing Education (Keynote), Malaspina, BC, 1997.
 BC Technology Planning Institute (Keynote), Vernon, BC, 1996
 BC Childcare Symposium (Keynote), Richmond, BC, 1996
 National Council of Teachers of Mathematics (Keynote), Vancouver, BC, 1996
 Can. Information Proc. Soc. Annual Meeting, Vancouver, BC, 1996
 Power-Up Symposium, Vancouver, BC, 1996
 Educational Computing Organization of Ontario, Toronto, ONT, 1996

- h. *Invited lectures:*** (recent, DLS denotes Distinguished Lecture Series)
 Castilleja Girls' School, Commencement, 2017
 University of California, Los Angeles, DLS, 2017
 Stony Brook University, DLS, 2017
 San Francisco State University, DLS, 2017
 University of Illinois at Chicago, DLS, 2016
 Université de Montréal, 2016
 University of Washington, Richmond, Commencement, 2016

Missouri University of Science and Technology, DLS, 2016
University of Notre Dame, Building Bridges Lecture Series, South Bend, IL, 2016
Smith College, Presidential Colloquium, Northampton, MA, 2016
University of Texas, Dallas, DLS, 2016
University of St. Andrews, Carnegie Lecture, Fife, Scotland, U.K., 2016
University of Southern California, Bedrosian Center Lunch with a Leader series, 2016
University of California, Berkeley, EECS Colloquium, 2016
Caltech, Oringer Seminar series, Pasadena, CA, 2015
National Science Foundation, DLS, 2015
Microsoft Research Diversity Lecture Series, Seattle, 2015
Pixar Animation Studios, Emeryville, CA, 2015
Community School of Music and Art, Mountain View, CA, 2015
Georgia Institute of Technology, WST Distinguished Lecture, 2015
Harvard University Askwith Forum, Boston, 2015
University of California, Los Angeles, ACM Speaker Series, 2015
University of Washington, Women in the Chemical Sciences, 2014
Broadcom Corporation, 2014
University of Wisconsin, Madison, Denice Denton Memorial Lecture, 2014
Trinity University, Lennox Seminar, 2014
Legacy Venture Annual Meeting, 2014
Google, 2014
Marymount School for Girls, Commencement, 2014
Lehigh University, 2014
Twitter WomEng Group, 2014
University of California, Santa Barbara, 2014
University of Waterloo (DLS), 2013
University of Maryland, College Park, 2013
Purdue University (DLS), 2013
George Washington University, Bromley Memorial Lecture, 2013
University of British Columbia, Green College Founder's Dinner, 2013
California Institute of Technology (DLS), 2013
University of California at Irvine (DLS), 2013
Rochester Institute of Technology (DLS), 2013
University of Washington (DLS), 2012
Portland State University (DLS), 2012
Elmhurst College (DLS), 2012
University of Minnesota, Minneapolis, College of Engineering, Commencement, 2012
Stanford Women in Computer Science (DLS), 2012
Colorado Mesa University (DLS), 2012
University of California at San Diego (DLS), 2012
University of California at Santa Barbara (DLS), 2012
Morgan Stanley, NYC, 2011
Jane Street Capital, NYC, 2011
Facebook, Palo Alto, CA, 2011
Google, Mountain View, CA, 2011
University of Maryland, Baltimore County Commencement, 2011
University of Oregon (DLS), 2010
University of Scranton (DLS), 2010
University of Buffalo (DLS), 2010

Cal Poly San Luis Obispo, 2010
Loyola University, 2009
U. Delaware (DLS), 2009
Stanford University, 2009
U.C. Riverside, 2009
University of Maryland Baltimore County, 2008
Yahoo Research (DLS), 2008
Oakland University (DLS), 2008
Cal Poly Pomona (DLS), 2008
Haverford College (DLS), 2008
George Washington University (Welling Lecture), 2008
University of Southern California (DLS), 2008
George Washington University (Welling Lecture), 2007
Northwestern University (DLS), 2006
University of Illinois Urbana-Champaign (DLS), 2006
Fermi Lab (DLS), 2006
Tufts University, 2005
University of Washington, 2005
Lehigh University, 2005
University of Pennsylvania (DLS), 2005
University of Kentucky (DLS), 2004
Lynda Shaw Memorial Lecture, University of Western Ontario, 2004
Women's Leadership Conference, New York, 2004
Columbia University (DLS), 2004
University of Minnesota (DLS), 2003
Microsoft Research, Redmond, 2003
Google, Mountain View, 2003
Cal Tech, Pasadena, 2003
Stanford University, Palo Alto, 2003
Mathematics Colloquium, UC Berkeley, Berkeley CA, 2002
UC Berkeley (Regents Lecture), Berkeley CA, 2002
Xavier University, Cincinnati, 2002
Dalhousie University (DLS), Halifax, 2000
Microsoft Research, Redmond, 2000
University of Wisconsin, Madison, 2000
American Film Institute, Los Angeles, 1999
University of Calgary (DLS), Calgary, 1999
DePaul University, (DLS) Chicago, 1999
University of Montana (DLS, Public Lecture), MT 1999.
University of Victoria (WISE chapter), 1999
University of Saskatchewan, (Public Lecture) 1998
University of Northern British Columbia (Public Lecture), 1998
Texas A&M. (DLS), 1997
University of Victoria (DLS, Public Lecture), 1997
University of Waterloo, 1996
Oregon Graduate Institute, 1996
University of Texas (DLS, Public Lecture), 1996
York University, 1996

Research Interests:

Theoretical computer science (data structures, algorithms, complexity); interactive multi-media (education: mathematics, programming, literacy; art-therapy); human-computer interaction; gender issues related to information technology, hand-held computers as cognitive aids for aphasic patients

Students:

(a) Graduate students supervised (Princeton):

Name	Years	Degree	Research Project Title	Present Position
Xiaojuan Ma	05-06	Ph.D.		
Sonya Nikolova	04-06	Ph.D.		
Jordan Boyd-Graber	04-06	Ph.D.		

(b) Graduate students supervised (UBC):

Name	Years	Degree	Research Project Title	Present Position
Gene Song	01-03	M.Sc.	Software for fractions	IT Industry, BC
David Graves	95-98	M.Sc.	Remote Computer-Support. Collaborative Learning	IT industry, Aust.
Kamran Sedighian	93-98	Ph.D.	Designing Interactive Multi-Media Children's Learning Environments	Asst. Prof., Univ. Western Ontario

(c) Graduate students co-supervised (UBC):

Name	Co-Superv.	Years	Degree	Research Project Title	Present Pos.
Karyn Moffatt	J. McGrenere	01-03	M.Sc.	cognitive aids for aphasic patients	
Grace Chen	S. Fels	00-03	M.Sc.	Virtual Faces	
James Gauthier	B. Fisher	01-03	M.Sc.	online feedback tools	
Kate Collie	J. Bottorff	00-03	Ph.D. (int)	distributed art-therapy	PDF Stanford
Joanne Thiel	A. Fournier	96-98	M.Sc.	Interactive Manipulation of Virtual Origami	Square, Hawaii
Kori Inkpen	K.S. Booth	92-97	Ph.D.	Human Computer Interfaces for Collaborative Learning Environments for Children	Assoc. Prof, Dalhousie
J. McGrenere	K.S. Booth	94-96	M.Sc.	Educational Electronic Multi-Player Games	Asst. Prof., UBC

(d) Undergraduate students whose research I supervised while at Princeton

Project	Year	Students
Aphasia	04-05	Kendrick Kin, Lester Mackey, Josh Lee

(e) Undergraduate students whose research I supervised while at UBC

Project	Year	Students
E-GEMS	01-02	Sarah Yang, James Dai, Michael Wu, Troy Wu, Jonny Cohen
SWIFT	01-02	Eve MacGregor, Willa Duplantis, Regan Yuen, Rainbow Li
E-GEMS	00-01	Jason Sze, James Dai, Michael Wu, Karen Wong, Troy Wu, Jonny Cohen, Sarah Yang
SWIFT	00-01	Janet Rosenfeld, Angela Zhou, Eve MacGregor, Willa Duplantis

E-GEMS	99-00	Wayne Grey, Kevin Burnell, Karen Franco, Karyn Moffat,
SWIFT	99-00	Crystal Nyhus, Rhian Davies, Shona Huang
E-GEMS	98-99	James Dai, Michael Wu, Dustin Lang, Cristina Green
SWIFT	98-99	Katie Stafford, Vania Chan, Kathy Lo
E-GEMS	97-98	Jeff Steinbok, Kathy Lo, Gina Situ, Fiona Wong, Ben Walton, Ryan Fugger, Dustin Lang, Cristina Green, Teresa Su, Tim Chen, Tim Edmunds
SWIFT	97-98	Lee Burrows, Tina Yee, Jessica Chen, Sonja Harvey
E-GEMS	96-97	Brett Allen, Paul Reitsma, Ryan Fugger, Ben Walton, Yan Teplitsky, Greg Smolyn, Weng-Keen Wong, Bowen Hui, Sam Heath, Fiona Wong, Karen Bentley
E-GEMS	95-96	Brett Allen, Nic Harvey, Bowen Hui, Sam Heath, Hardeep Sidhu, Weng-Keen Wong, Fiona Wong, Karen Bentley
E-GEMS	94-95	Steve Gribble, Richard Gibbons, Paul Jubenvill, Anatole Matveiff, Brett Allen, Nic Thorne, Marjan Parsa, Karen Bentley

PUBLICATIONS

1. M. Klawe (2013). Increasing Female Participation in Computing: The Harvey Mudd College Story. *Computer* Vol. 46 (3), March 2013.
2. R.N. Coger, J. Cuny, M. Klawe, M.McGann, and K.D. Purcell (2012). Why STEM Fields Still Don't Draw More Women. *Chronicle of Higher Education*, October 2012.
3. M. Klawe (2012). Females, Games and Learning Math, Op Ed, *Computers in Entertainment*, June 2012.
4. M. Klawe (2011). Increasing the Participation of Females in Computing Careers. *Journal of Computing Sciences in Colleges* Vol. 27 (1), October 2011.
5. D. Grasso, M. Brown Burkins, eds.; forewords by C. Judson King, R. Miller and M. Klawe (2010). *Holistic Engineering Education: Beyond Technology*.
6. M. Klawe, T. Whitney, C.Simard (2009). Women in Computing, Take 2. *CACM* Vol. 52 (2), February 2009.
7. M. Klawe (2007). Lumines Forever, *Math Horizons* 2007.
8. Boyd-Graber, J., Nikolova, S., Moffatt, K., Kin, K., Lee, J., Mackey, L., Tremaine, M., and Klawe, M. (2006). Participatory Design with Proxies: Developing a Desktop-PDA System to Support People with Aphasia. *Proc. of ACM CHI 2006*.
9. K. Moffatt, J. McGrenere, B. Purves, and M. Klawe. (2004), The Participatory Design of a Sound and Image Enhanced Daily Planner for People with Aphasia, *Proceedings of CHI 2004*.
10. J. McGrenere, R. Davies, L. Findlater, P. Graf, M. Klawe, K. Moffatt, B. Purves, S. Yang (2003). Insights from the Aphasia Project: Designing Technology For and With People who have Aphasia, *Proc. ACM Conference on Universal Usability, Vancouver, BC*.
11. James Dai, Michael Wu, Jonathan Cohen, and Maria Klawe. (2003). PrimeClimb: Designing to Facilitate Mediated Collaborative Inquiry, in *Proceedings of CSCL 2003, Bergen, Norway*. Kluwer Academic Publishers: 31-35.
12. Gauthier J, Fisher B, and Klawe M. (2003) Peer Presence and Real-Time Assessment: A Symbiotic Relationship in *Proceedings of ED-MEDIA 2003, Honolulu, HI*.
13. Cohen J, Dai J, Wu M, Wu T, and Klawe M. (2002) Promoting Peer-to-Peer Discourse for Collaborative Mathematics in Canadian Grade 7 Classrooms, *Proceedings of ED-MEDIA 2002, Denver, CO*. AACE: 325-326.
14. Cohen J, Dai J, Wu M, Wu T, and Klawe M. (2002) Sharing Toys on the Electronic Playground: Documenting Collaborative Classroom Interactions, *Proceedings of Computers and Advanced Technology in Education 2002, Cancun, Mexico*. May 2002. IASTED: 38-42

15. Dai J, Wu M, Cohen J, Wu T., and Klawe M. (2002) Toys to Teach - Mathematics as a Collaborative Climbing Exercise, ACM SIGGRAPH 2002 Conference Abstracts and Applications, San Antonio, TX. July 2002. ACM Press: 117-119.
16. M. Klawe, Girls, boys and computers, Inroads (the SIGCSE Bulletin), vol. 33, no. 2, 2002.
17. W. Duplantis, E. MacGregor, M. Klawe and M. Ng, 'Virtual Family': an Approach to Introducing Java Programming, Inroads (the SIGCSE Bulletin), vol. 33, no. 2, 2002.
18. M. Klawe, K. Inkpen, E. Phillips, R.Upitis, A. Rubin, E-GEMS :A Project on Computer Games, Mathematics, and Gender, in *Ghosts in the Machine*, eds. A. Rubin, N. Yelland, 2002.
19. M.Wu, J. Dai, J. Cohen, T. Wu, J. Sze, K.Wong, S.Yang, M. Klawe, Colorful Hints for Collaborative Climbing, *CSCCL 2002 Workshop on Documenting Collaborative Learning*, Boulder, 2002.
20. K. Sedig, M. Klawe and M.Westrom, (2001) Role of interface manipulation style and scaffolding on cognition and concept learning in learnware. *ACM Transactions on Computer-Human Interaction*. 8(1) 34-59.
21. M. Klawe, Refreshing of the Nerds, *Comm. ACM*, 2001.
22. C. Conati, M. Klawe, Socially Intelligent Agents in Educational Games, *AAAI Fall Symposium*, 2000.
23. A.R. Davies, M. Klawe, C. Nyhus, H. Sullivan, M. Ng, Gender issues in computer science education, *Proc. National Inst. Science Education Forum*, Detroit, 2000.
24. E. Law, M. Klawe, C. Conati, J. Meech, Team-paced versus Self-paced: The effects of educational game design on collaboration, learning and attitude towards information technology, *Proc. ED-MEDIA 2000*, Montreal, 2000.
25. R. Davies, M. Klawe, K. Muldner, C. Nyhus, H. Sullivan, Virtual Family: Including girls in the world of programming, *Proc. ED-MEDIA 2000*, Montreal, 2000.
26. V. Chan, K. Stafford, M.Klawe, and G. Chen, Gender Differences in Vancouver Secondary Students' Interests Related to Information Technology Careers, *Proc. WWC 2000*, Vancouver, 2000.
27. M. Klawe, I. Cavers, F. Popowich and G. Chen, ARC: A Computer Science Post-Baccalaureate Diploma Program that Appeals to Women, *Proc. WWC 2000*, Vancouver, 2000.
28. M. Klawe, Computer Games, Education And Interfaces: The E-GEMS Project, *Proc. Graphics Interface '99*, Kingston, 1999.
29. M. Klawe, Designing Game-based Interactive Multimedia Mathematics Learning Activities, *Proc. 4th UCSMP International Conference on Math. Educ.*, Chicago, 1998.

30. M. Klawe, When does the use of computer games and other interactive multimedia software help students learn mathematics? *Technology and NCTM Standards 2000 Conference, Arlington, 1998.*
31. D. Graves and M. Klawe, Supporting learners in a remote computer-supported collaborative learning environment: the importance of task and communication, *Proc. CSCL '97, Toronto, 1997.*
32. K. Inkpen, J. McGrenere, K.S. Booth, and M. Klawe, Turn-Taking Protocols for Mouse-Driven Collaborative Environments, *Proc. Graphics Interface '97, 138-145.*
33. Klawe, M., Westrom, M. , Super, M. and Davidson, K. Phoenix Quest: Lessons from developing an educational computer game, *Int. Conf. on Multimedia Tech. Man., Hong Kong, 1996.*
34. Super D. , Westrom M., and Klawe, M., “Design Issues Involving Entertainment Click-ons”, *Computer-Human Interaction '96 Conference Companion, Vancouver, 1996, pp. 177-178.*
35. Sedighian K. and Klawe M., “An Interface Strategy for Promoting Reflective Cognition in Children”, *Computer-Human Interaction '96 Conference Companion, Vancouver, 1996, pp. 179-180.*
36. Sedighian K. and Klawe M., “Super Tangrams: A Child-Centered Approach to Designing a Computer Supported Mathematics Learning Environment”, *Proceedings of ICLS '96, 1996.*
37. Klawe, M. and Philips, E., “A classroom study: electronic games engage children as researchers”, *Proc. Computer Support for Collaborative Learning '95, Indiana, 1995.*
38. Inkpen, K., Booth, K.S. and Klawe, M., “Playing together beats playing apart, especially for girls”, *Proc. Computer Support for Collaborative Learning '95, Indiana, 1995.*
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ARTISTIC WORKS, DESIGNS

Educational content design of "Counting on Frank," a math CD-ROM game published by Electronic Arts, 1994.

Producer and lead designer of Virtual Family, an entertaining software activity and tutorial to introduce non-programmers to programming in Java, see taz.cs.ubc.ca/swift.

Producer and lead designer of Phoenix Quest, a mathematical computer adventure game designed for students aged 10-14 with particular attention to the interests of girls.

Several hundred watercolor paintings