

Bryant W. York

bryantyork23@gmail.com

Education:

Ph.D. University of Massachusetts - Amherst, Computer Science, 1981

M.S. University of Massachusetts - Amherst, Computer Science, 1976

S.M. Sloan School of Management, M.I.T., Management, 1971

A.B. Brandeis University, Waltham, MA, Mathematics, 1967

Boston Latin School, 1963

Professional Experience:

9/19 – 8/21: Distinguished Visiting Professor of Computer Science, Olin College of Engineering, Needham, MA 02492

9/01 – 9/19: Professor, Department of Computer Science, retired 9/14/2019

9/04 – 9/14: Co-Director, Laboratory for Learning and Adaptive Systems
Portland State University, Portland, OR 97201

11/04 – 6/10: LIFE Center Partner, NSF Sciences of Learning Center, University of Washington, SRI International, Stanford University

9/01-9/04: Professor and Research Director, Department of Computer Science, Portland State University, Portland, OR 97201

9/91-9/01: Associate Professor and Research Director, College of Computer Science, Northeastern University, Boston, MA

9/90-9/91: Program Director, CISE/CDA, National Science Foundation, Washington, DC 20550

9/90-8/91: Visiting Research Scientist, Center for Computing and Applied Mathematics National Institute of Standards and Technology, Gaithersburg, MD 20899

1/86-8/91: Associate Professor (on leave 1990-91), Computer Science Department, Boston University, Boston, MA

6/84-1/86: Consulting Software Engineer, AI Technology Group, Digital Equipment Corporation, Hudson, MA

2/83-6/84: Principal Software Engineer, AI Technology Group, Digital Equipment Corporation, Hudson, MA

6/79-2/83: Research Staff member, Computer Science Dept, IBM Research Labs, San Jose, CA

9/75-6/79: University of Massachusetts, Amherst, MA, Research and teaching assistantships.

9/71-9/74: Senior Planning Analyst, Travelers Equities Sales, Inc. and Travelers Insurance Co., Hartford, CT

6/67-9/71: Actuarial Analyst, John Hancock Mutual Life Insurance Co., Boston, MA

Graduate courses taught: Computer Architecture, Operating Systems, Research Seminar in Automatic Program Synthesis, Computational Geometry, Expert Systems, Artificial Intelligence, Parallel Computing, Research Seminar in Parallel Computational Geometry, Machine Learning, Research Seminar in Interactive Games and Cognition, AI and Game Design, Asynchronous Programming, Applied Cryptography, Introduction to Quantum Computing.

Undergraduate courses taught: Software Systems, Data Parallel Computing, Introduction to C++, Data Structures and Algorithms II, Introduction to Problem Solving, Computer Architecture, Operating Systems, Computer Graphics, Algorithms and Complexity, AI and Game Design, Applied Cryptography, Introduction to Quantum Computing.

Languages and Systems: C, C++, Java, Tcl/Tk, LISP, JESS, FORTRAN, APL2, Dyalog APL, PASCAL, C*, *LISP, PARIS, PVM, MPI, MC68000 ASM, SPARC ASM, WorldToolKit, SQL, UNIX/Linux, VAX/VMS, MULTICS, CMOST, CP/CMS, MAC, WINDOWS 95/98/NT/2000/XP/7/8.

Professional Societies: ACM 1975 – present, AAAI 1980 - 1990, AAAS 1991 - 2008, SIAM 1991 - 2008

Professional Service:

- Co-Founder, Center for Minorities and People with Disabilities in Information Technology (CMD-IT), 2010. Chairman of the Board of Directors, 2011 – 2015. <http://www.cmd-it.org/index.html>.
- Member, Advisory Board, Commonwealth Alliance for Information Technology Education (CAITE), an NSF Broadening Participation in Computing Alliance, 2012 – present.
- Member, Advisory Board, Expanding Computing Education Pathways (ECEP), an ANSG Broadening Participation in Computing Alliance, 2013—2019.
- Panelist, NITRD Strategic Planning Forum, Washington, DC, February 23-24, 2009.
- Member, Advisory Board, ACM/WGBH New Image of Computing Project, August 2008 – 2011.
- Member, iPlant Collaborative, EOT Advisory Board, July 2008 – 2011. <http://www.iplantcollaborative.org>
- Member, National Science Digital Pathways (ENSEMBLE) Project EOT Advisory Board, August 2008 – 2012.
- Member, Advisory Committee of the National Science Foundation Education and Human Resources Directorate, February 2008 – 2014.
- Elected Member, Board of Directors, Computing research Association (CRA), 2006-2009, Habermann Award Committee, Elections Committee.
- Chair, ACM Distinguished Service Award Committee, 2007 – 2008.
- Chair, Section on Information, Computing, and Communication (T), American Association for the Advancement of Science, 2007-2008.

- Member, Board of Directors, Oregon MESA, 2005-2007
- Chair, Coalition to Diversify Computing, 2006-2007
- Chair, EPIC (Engaging People in Cyberinfrastructure) Advisory Board, 2005-2006
- Member, National Science Foundation CISE Directorate Advisory Committee, May 2002-July 2006.
- Appointed Member, Board of Directors, Computing Research Association, February 2002 – February 2003, March 2005 – June 2006.
- Member, National Science Foundation Advisory Committee for the Science and Technology Centers Program, 1996
- Member, National Science Foundation CISE Directorate Advisory Committee, 1992-1998
- Member, National Science Foundation Advisory Panel on Applications of Advanced Technology in Education Program, 1994-1995
- Member, National Science Foundation Advisory Panel for Ethics, Values and Society, 1991-1994
- Member, ACM Education Board, 1991-1996
- Member, ACM U. S. Public Policy Committee, 1992-1999
- Chair, ACM Committee on Minorities, 1994-95
- Interim Eastern Regional Representative to ACM, 9/96-9/97
- Minority mentor, New England Board of Higher Education, 1992-2001
- NSF panelist - 1988-present (except 1990-91)
- NSF reviewer - 1989-present (except 1990-91)
- Member, Program Committee, Society and the Future of Computing 96, 1996
- Co-chair, Education Committee for Supercomputing 97 Conference, 1995 - 1997
- Member, Advisory Committee for establishing a Ph.D. program in Computer Science and Engineering, University of Puerto Rico, 1996 - 1998
- Member, National Computational Science Alliance Users Advisory Council, 1998-2001
- Chair, Panels Committee for SC99 (formerly Supercomputing), 1998-99
- Member, Steering Committee, Coalition to Diversify Computing (CDC) 1999 – 2005
- Technical Program Chair, First Richard Tapia Symposium to Celebrate Diversity in Computing, Houston, TX, October 2001
- General Chair, 2003 Richard Tapia Conference to Celebrate Diversity in Computing, Atlanta, GA, October 2003
- Co-founder, African American Scientists for Citizenship and Community (AASCC), 1997.
- Co-founder, Institute for African American eCulture (IAAeC), 1999.

Reviewing:

- Communications of the ACM
- Neural Networks
- Journal of Symbolic Computation

Awards:

- Recipient of First Outstanding Alumni Award for Contributions to Society from the Computer Science Department, University of Massachusetts – Amherst, May 2009.
- Named one of the 50 Most Important African Americans in Technology by souloftechnology.com, February 2008
- Recipient of the First AARCS (African American Researchers in Computer Science) Footprints Award, July 2007
- ACM Fellow, 2006.
- Selected one of the 100 Most Important Blacks in Technology, Black Engineer of the Year Awards, Baltimore, MD, February 2006.
- Outstanding Faculty Researcher Award, College of Engineering and Computer Science, Portland State University, 2003 – 2004.
- Recipient of the first Richard A. Tapia Award for Scientific Scholarship, Civic Science and Diversifying Science, 2001
- Selected one of the Top 50 African Americans in Technology, August 2001
- Computing Research Association (CRA) A. Nico Habermann Award, 1998
- Association of Departments of Computer Science and Engineering at Minority Institutions (ADMI) Service Award, 1991, 1997
- National Science Foundation Equal Opportunity Award, 1991
- University of Massachusetts, National Fellowships Fund Fellowship, 1977-79
- MIT, Jonsson Fellowship, 1969-1971

University and College Committees:**Portland State University**

- Research Director, Department of Computer Science, 2001 – 2004
- Tenure Committee, Department of Computer Science, 2001 – 2019
- Hiring Committee, Department of Computer Science, 2002 – 2015
- Nanotechnology Committee, 2005 - 2011
- Internationalization Committee, 2005 – 2011
- Member, Undergraduate Committee, 2008 - present
- Chair, Undergraduate Curriculum Revision Committee, 2011-2012
- Chair, Awards Committee, 2018-2019.

Northeastern University

- Research Director, College of Computer Science, 1991 – 2001
- Member, University Research Council (Presidential Appointment), 1991 – 1995
- Member, Minority Faculty Recruitment and Retention Committee, 1993-2000
- Member, Administrative Committee, College of Computer Science, 1991-2001
- Member, Undergraduate Committee, College of Computer Science, 1993-2001
- Member, University Strategic Planning Task Force on Research and Scholarship, 1992-93
- Member, University Strategic Planning Focus Group on Minorities, 1992-93

Consulting:

- Prometheus, Inc., 2012 – 2015
- Bayer Healthcare LLC Diabetes Care, 2008 – 2010
- National Science Foundation, Expert Consultant, 6/2004 – 5/2005
- Onyx Sciences Corporation, Boston, MA., Multimedia software, 12/94-6/97
- Dana Farber Cancer Institute, Boston MA, Client/Server Database Applications, 6/95-11/95
- Tesseract Technologies Inc., Elmhurst, IL, High Performance Computing, 6/92-6/94
- Applied Logic Systems, Syracuse, NY, Expert Systems Applications, 5/86-6/88
- Digital Equipment Corp., Hudson, MA, Expert Systems Applications, 1/86-1/88
- General Dynamics, San Diego, CA and Pomona, CA, Software Systems, 1/78-6/79

Member of Ph.D. Dissertation Committees

- Ugo Buy, University of Massachusetts-Amherst, 1989
- Jonathan Marshall, Boston University, 1990
- Pablo Tamayo, Boston University, 1990
- Mike Yung, Boston University, 1990
- Dino Oliva, Northeastern University, 1994
- Andy Huang, Brandeis University, 1994
- Paul Steckler, Northeastern University, 1994
- David Gladstein, Northeastern University, 1995
- Walter Hürsch, Northeastern University, 1995
- Jose Fridman, Northeastern University, 1996
- Amirhooshang Hashemi, Northeastern University, 1997
- Christopher Chambers, Portland State University, 2006
- Faisal Khan, Portland State University, 2009
- Edward Kaiser, Portland State University, 2009
- Juncao Li, Portland State University, 2010
- Candy Yiu, Portland State University, 2011
- Philip Howard, Portland State University, 2012
- Kecheng Hao, Portland State University, 2013
- Navaneeth Jamadagni, Portland State University, 2015

M. S. Theses Supervised

- Veniamin Daskalakis, Boston University, 1990
- Robert Carter, Boston University, 1990
- Leilei Bao, Northeastern University, 1994
- Rafael David, Northeastern University, 1995
- Qing Yi, Portland State University, 2004
- Holly Grimes, Portland State University, 2009
- Keith Wilson, Portland State University, 2011

B. S. Theses Supervised

- Geoffrey Hulten, Northeastern University, 1997
- Nick Pilkington, Portland State University, 2007

Publications:

- "Symmetries of migration-related segments of all [001] coincidence site lattice tilt boundaries in (001) projection for all holohedral cubic materials", P. Moeck, B.W. York, and N.D. Browning, *Crystal Research & Technology*, **49**, 708-720, 2014.
- "Some Results for Chaotic Times Series Prediction Using Clifford Neural Networks", Qing Yi and Bryant W. York, Proc. of Seventh International Conference on Signal Processing, Beijing, China, August 2004.
- "Triplet-Valued Wavelets for Colour Image Processing", V. G. Labounets, A.V. Maidan, E. V. Labounets-Rundblad, J. T. Astola, and B. W. York, Proc. of *Applications of Geometric Algebra*, September 5-6, 2002, Trinity College, Cambridge, UK.
- "Constructing Permutation Representations for Matrix Groups", G. Cooperman, L. Finkelstein, M. Tselman, and B. W. York, in *Journal of Symbolic Computation*, (1997), **24**, 471-488.
- "The Ab-Initio Crystal Structure Solution of Proteins by Direct Methods. VI. Complete phasing up to derivative resolution." C. Giacovazzo, D. Siliqi, J. Platas, H-J. Hecht, G. Zanotti, B. W. York, *Acta Cryst.* (1996). **D52**. 813-825.
- "On the Scalability of Parallel Triplet Generation for Protein Crystallography, S. Ramamurthy, B. W. York, and C. Giacovazzo, in Proc. of 1996 ACM Symposium on Experimental Computing and Applications Development (SAC 96), pp. 344-352, February 1996, Philadelphia.
- "Matrix Inversion in $O(n \log n)$ on a Scan-Enhanced Reconfigurable Mesh Computer", A. Moreira and B. W. York, in Proc. of 24th Annual ACM Computer Science Conference, pp. 67-75, February 1996, Philadelphia.
- "Virtual Topology Embeddings on Networks of Workstations for High-Performance Computing", B. Yener, B. W. York, Y. Ofek, and M. Yung, in Proc. of IEEE Third Workshop on the Architecture and Implementation of High Performance Communication Subsystems, pp. 192-195, Mystic, CT., August 1995.
- "Discrete Wavelet Transforms on a Massively Parallel Platform", J. Fridman, E. Manolakos and B. W. York, in Proc. of the International Conference on Signal Processing Applications and Technology (ICSPAT'95), pp. 1512-1516, Boston, MA., October 1995.
- "Generalized Stone-Wales Transformations", D. Babic, S. Bassoli, M. Casartelli, F. Cataldo, A. Graovac, O. Ori, B. W. York, in *Molecular Simulation*, vol. 14, pp. 395-401, 1995.
- "Interconnection Networks for Massively Parallel Computers Based on the Hoffman-Singleton Graph", B. W. York and L. Bao, in Proc. of Sixth IASTED-ISMM International Conference on Parallel and Distributed Computing and Systems, pp. 380 - 383, held October 3-5, 1994, Washington, DC.

- "Constructing Permutation Representations for Large Matrix Groups", G. Cooperman, L. Finkelstein, B. W. York, and M. Tselman, in *Proc. of The International Symposium on Symbolic and Algebraic Computation*, ACM Press, P. 134-138, July 1994.
- "Chemical Graph Computations on a Partitioned Cellular Automaton", B. W. York, L. Bao, and O. Ori, in the Proc. of High Performance Computing '94, pp. 238-243, April 1994, LaJolla, CA.
- "CAPD Research Opportunities in the 1990s and Beyond", B. W. York, in Proc. of IISF Symposium on Computers as Our Better Partners, Tokyo, Japan, March 7-9, 1994, published by World Scientific, invited paper.
- "A Fast Parallel Method for Exhaustive C_{60} Enumeration", B. W. York and O. Ori, Proc. of SIAM Sixth International Conference on Parallel Processing and Scientific Computing, March 1993, pp. 282-286.
- "Parallel Implementations of Group Membership and the Method of Random Subproducts", G. Cooperman, L. Finkelstein, and B. W. York, in Proc. of the First Summer Institute on Issues and Obstacles in the Practical Implementation of Parallel Algorithms and the Use of Parallel Machines, Dartmouth Institute for Advanced Graduate Studies in Parallel Computation (DAGS/PC), June 23-27, 1992, Dartmouth College, Hanover, NH.
- "Computers and People with Disabilities", special section of the Communications of the ACM, May 1992, co-editor with E. Glinert.
- "Implications of Parallel Architectures for Permutation Group Computations", B. W. York, in *Groups and Computation*, L. Finkelstein and W. Kantor (Eds.), DIMACS AMS Series, Volume 11, 1993.
- "A Parallel Multi-Grid Algorithm for Percolation Clusters", R. Brower, P. Tamayo, and B. York, *Journal of Statistical Physics*, vol. 63, no 1/2, pp. 73-88, April 1991.
- "Some Performance Results for a Connection Machine Implementation of the Boundary Contour System", B. York and M. Atkins, in the Proc. of the International Joint Conferences on Neural Networks, Vol I, pp 351-8, San Diego, CA. June 1990.
- "Tools to Support Blind Programmers", B. York and A. Karshmer, Proc. of the 1989 ACM Computer Science Conference, Louisville, Ky. February 1989 (appeared as a chapter in *Visual Programming Environments*, E. P. Glinert, IEEE Computer Society Press, 1990).
- "An Overview of T3-PBE", B. York and A. Karshmer, ACM SIGCAPH Newsletter, February 1989.
- "KBTA: An Expert Aid for Chip Test", B. York, Proc. of the 1st International Conference on AI Applications to Engineering Problems, Southampton, England, April 15, 1986.
- "An Overview of the Knowledge Based Test Assistant", B. York, H. Shubin, J. Arnold, ACM SIGART, April 1985.
- "A Relational Representation of an Abstract Type System", D. Weller, B. York, *IEEE Transactions on Software Engineering*, vol. SE-10, no. 3, May 1984.

- "3D Object Representation and Matching with B-splines and Surface Patches", B. York, E. Riseman, A. Hanson, Proc. of 7th IJCAI, vol. 2, August 1981, Vancouver, BC
- "A Surface Representation for Computer Vision", B. York, A. Hanson, E. Riseman, Proc. of Workshop on Picture Data Description and Management, August 1980, Asilomar, CA
- "Between Regions and Objects - Surfaces and Volumes", K. Konolige, B. York, E. Riseman, A. Hanson, Proc. of 5th IJCAI, vol. 2, August 1977, MIT, Cambridge, MA

Grants:

- Consultant to "Zoombinis: An Implementation Research Study of a Computational Thinking Game for Upper Elementary and Middle School Learners", NSF, DRK12, \$1,900,000, 8/01/2015 – 7/31/2018. Portions of the grant are based on work that York did with TERC in 2002.
<https://www.terc.edu/display/Newsroom/TERC+Receives+National+Science+Foundation+Research+Grant+to+Examine+the+Development+of+Computational+Thinking+in+Game-Based+Learning>
- BPC-AE: An Extension to Widening the Research Pipeline, NSF, \$1,750,000, co-PI York, 08/01/2008 – 07/31/2011.
- Collaborative Research: CPATH CB: I18n, Internationalization of Computer Science Education: The Pacific Rim Community Model, NSF, \$196,806, co-PI York, 07/01/2007 – 06/30/2010.
- BPC-DP: Academic Mentoring Workshops for Underrepresented Participants, NSF, \$388,227, Co-PI: York, 03/01/2007 – 02/28/2010.
- Oregon Nanoscience and Microtechnologies Institute: Nanometrology and Nanoelectronics Initiative, John Carruthers, Principal Investigator, \$2,370,000, Office of Naval Research, 1/1/2007 – 1/1/2008, York is a research team member on subcontract in Nanocrystallography with Peter Moeck.
- "The Richard Tapia Celebration of Diversity in Computing Conference 2003", NSF, \$72,444, co-PI York, 05/01/2003 – 04/30/2005.
- "Machine Learning Tools for Atmospheric and Ocean Modeling", \$175,000, NCSA, PI: York, 10/01/2002 – 09/30/2004.
- "ITR/EWF: New Approaches to Human Capital Development through Information Technology Research", \$3,176,944, NSF, PI: York, 09/15/00 - 09/14/05.
- "Novel Mathematical/Computational Approaches to Image Exploitation", U. S. Air Force STTR subcontract, Phase II, \$163,190, 04/15/00 - 04/14/02.
- "GK-12: STEM Graduate Teaching Fellows Program", NSF, 09/01/1999 - 09/30/2002, \$1,000,000, co-PI with David Blackman, and Thomas Gilbert.
- "Novel Mathematical/Computational Approaches to Image Exploitation", U. S. Air Force STTR subcontracts, \$29,485, 08/01/98 - 02/01/00.
- "Education and Teacher Enhancement at the "SuperComputing '97" Conference", NSF, \$78,000, co-PI York, 10/01/1997 – 09/30/1998.
- "Increasing Minority Participation in CISE Disciplines", NSF CISE/CDA Special Projects, \$49,619, PI: York, 09/15/94 - 08/31/95.

- "Developing Mathematical and Algorithmic Intuition in Inner-City Minority Students: A Pilot Project", NSF, \$49,635 for 1 year 02/15/94 - 07/31/95.
- "Curriculum Development in Data Parallel Programming", Research agreement with Thinking Machines Corporation, Cambridge, MA., 11/01/93 - 10/30/94.
- "Multiscale Digital Communications", ARPA Grant MDA 972-93-1-0023, 06/30/93 - 12/31/95, J. Proakis (principal investigator), York is one of the supported personnel.
- "Development of Massively Parallel Algorithms for Group and Graph Computations in Quasicrystal Analysis", NASA, \$204,873 for 3 years 09/30/92 - 09/30/95.
- "Parallel Automated Reasoning and Clause Graph Analysis", NSF, \$99,108 for 2 years 09/30/91 - 06/30/93. Two REU supplements awarded for a total of \$20,000.
- "Boston University Workshop on Computers and Persons with Disabilities", NSF, \$6,800. 09/30/89 - 08/31/90.
- "Geometric Surfaces for Manufacturing Using the Connection Machine", grantor - Digital Equipment Corporation, \$79,800, 09/15/89. Co-principal investigator with Professors Merrill Ebner and Richard Brower.
- "Automatic Synthesis of Computer Systems Designs", grantor - Digital Equipment Corporation, \$80,000, 07/15/87.

Technical Reports:

- "Transform Techniques for Parallel Processing Analysis", J. J. Rushanan and B. W. York, NU-CCS-95-20, November 1995.
- "On the Scalability of Parallel Triplet Generation for Protein Crystallography, B. W. York, C. Giacobozzo, and S. Ramamurthy, NU-CCS-95-12, August 1995.
- "Matrix Inversion in $O(n \log n)$ on a Scan-Enhanced Reconfigurable Mesh Computer", A. Moreira and B. W. York, NU-CCS-95-11, August 1995.
- "Final Report of the Workshop on Increasing Participation of Minorities in the Computing Disciplines", B. W. York et. al., NU-CCS-95-15, August 1995.
- "Working Papers of the NSF-sponsored Workshop on Increasing Participation of Minorities in the Computing Disciplines", B. W. York (ed.), NU-CCS-95-08, May 1995.
- "Hierarchical Networks Based on the Hoffman-Singleton Graph", B. W. York and L. Bao, Northeastern University College of Computer Science Technical Report NU-CCS-94-16, August 1994.
- "Parallel Computation of the Permanent of -1 Matrices", J. J. Rushanan and B. W. York, Northeastern University College of Computer Science Technical Report NU-CCS-94-07, March 1994.
- "Permutation Group Computations on the Connection Machine, CM-5", K. M. Kvech and B. W. York, Northeastern University College of Computer Science Technical Report NU-CCS-92-7, April 1992.
- "Adaptive Surface-Fitting of Laser-Scanned Data", B. W. York and J. S. Nimeroff, BUCS TR 90-018, Computer Science Department, Boston University, June 1990.
- "Computers and Persons with Disabilities" B. W. York, BUCS TR 89-013, Computer Science Department, Boston University, October 1989.

- “Automatic Synthesis of Computer Performance Models”, B. W. York, BU-CS TR 88-002, Computer Science Department, Boston University, January 1988.
- “PBE: Programming By Ear (A programming Environment for the Visually Handicapped)”, B. W. York, BU-CS TR 87-009, Computer Science Department, Boston University, September 1987.
- “An Introduction to Forms and Logic”, B. Doyle, M. Friedman, B. W. York, BUCS TR 87-008, Computer Science Department, Boston University, July 1987.
- “SPELS: A Specification Language for Automatic Program Synthesis”, U. Buy, B. W. York, Digital Equipment Corporation, AITG TR - 006, December 1985.
- “An Overview of KAPS: A Knowledge-Based Automatic Program Synthesizer”, U. Buy, B. W. York, Digital Equipment Corporation, AITG TR - 005, December 1985.
- “DBDT: A Database Design Tool”, W. Hasan, B. W. York, Digital Equipment Corporation, AITG TR-003, September 1985.
- “Device Independent Graphics Using Dynamic Generic Operator Selection”, E. D. Carlson, D. L. Weller, B. W. York, IBM Technical Disclosure Bulletin, vol. 25, no. 11A, April 1983.
- “A Primer on Polynomial Interpolation and Splines”, B. W. York, University of Massachusetts, COINS TR 79-5, January 1979.

Presentations and Workshops:

- “Reflections on Diversity in Computing”, Invited Presentation, New Relic, Inc. Portland Oregon, March 26, 2019.
- “Prime Number Graphs and Semiprime Factorization”, University of Florida, September 22, 2015.
- Organizer, presenter, and panelist at Academic Careers Workshops for Underrepresented Faculty annually 2010-2015.
- NSF Open Community Meeting: NSF Task Force for Cyber learning and Workforce Development held in Washington, DC on September 22, 2010.
- Keynote address, STARS Celebration, “Computational Thinking, Visualization, and the Advancement of Science in the Twenty-First Century”, Orlando, FL, August 10, 2010.
- Academic Career Development Workshop for Underrepresented Junior Faculty, April 4-5, 2009, Portland, Oregon.
- “NIT Education, Workforce and Diversity”, National Information Technology Research and Development (NITRD) Strategic Planning Forum, Washington, DC, February 24-25, 2009.
- US-China Computer Science Summit II, Washington, DC, July 10-11, 2008.
- Computing Research Association Academic Careers Workshop, “Understanding the Promotion and Tenure Process”, February 23, 2008
- “Computational Thinking, Abstraction and Programming: A Personal Perspective”, University of North Carolina – Charlotte, January 18, 2008.
- Academic Career Development Workshop for Underrepresented Junior Faculty, November 30, 2007 – December 2, 2007, Texas A&M University, College Station, TX.

- AARCS (African American Researchers in Computer Science) Conference, Auburn University, July 20-21, 2007.
- Microsoft Faculty Research Summit, July 15-17, 2007, Redmond, WA
- High Performance Computing and Ocean Modeling, Northwest Polytechnical University, Xi'an, China, October 13, 2006.
- Academic Career Development Workshop for Underrepresented Junior Faculty, September 28-30, 2006, Texas A&M University, College Station, TX.
- High Performance Computing and Ocean Modeling, Xiamen University, Xiamen, China, September 12, 2006.
- Global Infrastructure and the China Grid Projects, NSF CISE Panel on Global Infrastructure, CRA Snowbird Conference, June 23, 2006.
- Basic Research vs. Development Oriented Research, US-China Computer Science Summit I, held May 23, 2006, Beijing, China.
- Broadening Participation in Computing, Presentation to the Network of Intel African American Employees, March 24, 2006, Hillsboro, OR
- NSF PIs Meeting and Workshop on Broadening Participation in Computing, March 9-10, 2006, Atlanta, GA
- Merlo Station High School Science Fair judge, Beaverton, OR, February 2, 2006.
- NSF Workshop on Integrated Computing Education and Research (ICER), Stanford University, January 27-29, 2006.
- Microsoft Academic Days Conference on Gaming and Education, Tampa, FL, January 19-23, 2006.
- "Potential Research and Education Collaborations in China", Portland State University, Portland, Oregon, January 11, 2006.
- "High performance Computing and Networking in Support of Ocean Science and Engineering", December 9, 2005, Xiamen University, Xiamen, China.
- "Research Collaborations in E-Science between USA and China", December 5, 2005, National Science Foundation – Beijing Office, Beijing, China.
- "The Computer Science Academic Job Search", Richard Tapia Celebration of Diversity in Computing Conference 2005, Albuquerque, NM, October 19 -22, 2005.
- "Grant Proposal Development for New Minority Faculty", Computer Science Academic Careers Workshop for Underrepresented Junior Faculty, Texas A&M University, College Station, TX, September 8-9, 2005.
- Workshop on Simulation and Games", Stanford University, July 25-29, 2005.
- "Collaborative Enhancement Opportunities for Fuzhou University", Fuzhou University, Fuzhou, China, 06/10/2005.
- "Clifford Neural Networks and Chaotic Time Series", Xiamen University, Xiamen, China, 06/17/2005.
- NSF Workshop on Broadening Participation in Computing for Persons with Disabilities, 04/28/2005 – 04/19/1005, University of South Florida, Lakeland, FL.
- "Computer Games, Children's Learning, and the Minority Math Gap", Invited Saxena Lecture, University of South Florida – Lakeland, 04/26/005, Lakeland, Fl.
- "Informal Thoughts on Math and Computer Science", Fuzhou University, Beijing, China, 04/06/2005.

- “Clifford Neural Networks and Chaotic Time Series”, Fuzhou University, Fuzhou, China, 04/04/2005.
- “Clifford Neural Networks and Chaotic Time Series”, Xi’an Xibei University, Xi’an, China, 03/31/2005.
- “Clifford Neural Networks and Chaotic Time Series”, Xi’an Jiaotong University, Xi’an, China, 03/30/2005.
- “Clifford Neural Networks and Chaotic Time Series”, Tsinghua University, Beijing, China, 03/24/2005.
- “FFT Over finite Fields”, International Institute for Information Science and Technology, Shanghai, China, 03/18/2005.
- “Research Opportunities in the Portland State University Computer Science Department”, Tsinghua University, Beijing, China, 03/24/2005.
- “Tools for Analyzing Early Logical Skill Development in Young Children”, LIFE Center, SRI International, Menlo Park, CA, November 18, 2004.
- “Tools for Analyzing Early Logical Skill Development in Young Children”, LIFE Center, University of Washington, Seattle, WA, November 17, 2004.
- “A Study of Broadening Participation in CISE”, CRA Workshop on Broadening Participation in CISE Disciplines, Arlington, VA, October 20, 2004.
- “Clifford Neural Networks and Chaotic Time Series”, Northwestern University, Computer Science Department, Distinguished Lecturer Series, Evanston, IL, October 8, 2004.
- “From Project Head Start to Beyond the Digital Divide”, President’s Breakfast Lecture Series, Rochester Institute of Technology, Rochester, NY, September 29, 2004.
- “Clifford Neural Networks and Chaotic Time Series”, CASCI Invited Lecture, Rochester Institute of Technology, Rochester, NY, September 28, 2004.
- “The Role of Computer Science in Societal Applications”, CRA Snowbird Conference, Snowbird, UT, July 2004.
- “Asking the Hard Questions about Diversity: An Inquisition of Richard Tapia”, CRA Snowbird Conference, Snowbird, UT, July 2004.
- “Research and Solutions for Increasing Under-Represented Minority Students in Computer Science”, (invited talk), Workshop on Women and Minorities in Computer Science, Boulder Colorado, August 11-13, 2003.
- “Diversifying Computing: Three Perspectives”, CRA Snowbird Conference, Snowbird, UT, July 2002.
- “Triplet-Valued Wavelets for Colour Image Processing”, V. G. Labounets, A. V. Maidan, E. V. Labounets-Rundblad, J. T. Astola, and B. W. York, Applications of Geometric Algebra, Trinity College, Cambridge, September, 2002.
- “DFL: A New Paradigm for Computing”, First CRA Grand Research Challenges in Computing Systems Conference, June 23-26, Airlie, VA, (one of 70 computer scientists invited).
- “E-Learning and Mathematics”, EU-US Co-operation in Science and Technology in Technology Enhanced Learning (E-Learning) Workshop, May 18-20, 2002. (invited as one of 6 U.S. Representatives)

- "Culture and Concept Gestation in Learning Mathematics", (invited talk) NSF Workshop on Information Technology Research and Education, Palo Alto, CA, March 4-6, 2002.
- "New Approaches to Human Capital Development through Information Technology Research", (invited talk) NSF Conference on Information Technology and the Workforce, Boulder CO, October 14-16, 2001.
- "Nonabelian Groups, Unitary Transforms and Image Processing", B. W. York, Conference of African American Researchers in the Mathematical Sciences (CAARMS5), held at the University of Michigan, Ann Arbor, MI, June 23-25, 1999 (invited talk).
- Chair, Panels Committee, SC99, November 1999.
- Co-Chair, Education Program of SC97, November 1997.
- Computer Science Issues in PetaFlops Computing, NCSA User Advisory Council Meeting at the National Science Foundation, May 27, 1998.
- Participant, Ames Lab DOE Workshop on Undergraduate Computational Science Education (UCES Project), held at Boston University, February 1996.
- Member of Panel on "New Horizons for the MARINER Project", Boston University, Boston, MA, October 7, 1995.
- "Increasing Participation of Minorities in the Computing Disciplines", B. W. York, chair of organizing committee and moderator for this NSF-sponsored workshop, Airlie, VA, May 1995.
- "Parallel Computing and Crystallographic Computations", B. W. York, Universita di Bari, April 1995.
- Workshop on Parallel Computing Curricula, March 31 - April 1, 1995, Wellesley College.
- ACM Computer Science Conference, March 1-3, 1995, Nashville, TN.
- "NSF Workshop on the NII and the Elderly", B.W. York, moderator, Los Angeles, October 1994.
- ACM Computer Science Conference, March 9-13, 1994, Phoenix, AZ.
- NSF's Applications of Advanced Technologies Project Director's Meeting, Washington, DC, July 6-8, 1994.
- NSF sponsored Spring Workshop for Educators in High Performance Computing held at Boston University, May 25-27, 1994.
- High Performance Computing '94, April 11-15, 1994, LaJolla, CA
- ASSETS'94 The First ACM/SIGCAPH Conference on Assistive Technologies, Los Angeles, October 30 - November 1, 1994.
- "Interconnection Networks for Massively Parallel Computers Based on the Hoffman-Singleton Graph", B. W. York, Sixth IASTED-ISMM International Conference on Parallel and Distributed Computing and Systems, held October 3-5, 1994, Washington, DC.
- "Parallel Computation of the Permanent of -1 Matrices", B. W. York, Computer Science Department, University of Oregon, February 1994.
- "Constructing Permutation Representations for Large Matrix Groups", B. W. York, Computer Science Department, University of Oregon, February 1994.

- NSF CISE Institutional Infrastructure Meeting, June 3-4, 1993, Chicago, Illinois, York organized and conducted a panel on "Partnerships between Minority and Majority Institutions".
- "A Fast Parallel Method for Exhaustive C_{60} Enumeration", B. W. York, MITRE Corp., April 15, 1993.
- "A Fast Parallel Method for Exhaustive C_{60} Enumeration", B. W. York, SIAM Sixth International Conference on Parallel Processing and Scientific Computing, March 23, 1993.
- "Parallel Implementations of Group Membership and the Method of Random Subproducts", The First Summer Institute on Issues and Obstacles in the Practical Implementation of Parallel Algorithms and the Use of Parallel Machines, Dartmouth Institute for Advanced Graduate Studies in Parallel Computation (DAGS/PC), June 24, 1992, Dartmouth College, Hanover, NH.
- "Parallel Group Computations on the Connection Machine", invited speaker, Computer Science Department, Concordia University, Montreal, Canada, February 18, 1992
- "Richly Connected Neural Networks on the Connection Machine", invited speaker, Computer Science Department, Concordia University, Montreal, Canada, February 17, 1992
- "Implementation of the Boundary Contour System on the Connection Machine", invited speaker, IEEE Lecture Series on Neural Networks, Gordon Institute, Wakefield, MA, October 30, 1991.
- "Implications of Parallel Architectures for Group Computations", Invited speaker, DIMACS Workshop on Group Computations, October 7-9, 1991
- ICIAM 91, July 8-12, 1991, Washington, DC, Minisymposium on Massively Parallel Algorithms for Geometric Computations, organizer and presenter
- 1991 ACM SIGCSE Conference, March 6-8, 1991, San Antonio, TX
Panelist, Federal Funding Possibilities for Minority Research Programs
Panelist, Summer Research Opportunities for Faculty
- Participant in Workshop on High Performance Computing and Education, October 26-28, 1990, Champaign-Urbana, IL
- Program co-organizer for Boston University Workshop on Acceleration Algorithms held April 12-13, 1990.
- Program organizer for Boston University Workshop on Computer Aids for the Physically Handicapped held October 2-3, 1989. NSF sponsored this workshop.
- "PBE: Programming by Ear", invited speaker, Annual workshop of the Visually Impaired Data Processors International, July 2, 1989, Richmond, VA. (Unable to attend).
- Conducted a 2-day workshop on the introduction of parallel computing concepts into the undergraduate computer science curriculum. Spelman College, Atlanta, GA. June 5-6, 1989.
- "Parallel Theorem Proving and Clause Graph Analysis" Spelman College 03/26/89
- "Parallel Theorem Proving and Clause Graph Analysis" Howard University 03/09/89
- "PBE: Programming by Ear" Southeastern Massachusetts University 03/02/89

- ``PBE: Programming by Ear", Boston College 11/28/88
- ``PBE: Programming by Ear", Boston University 10/05/88
- ``Artificial Intelligence, Expert Systems, and CAD", ViewLogic, Inc. Marlboro, MA 07/23/87
- ``Artificial Intelligence at Boston University", Artificial Intelligence Society of New England, Yale University 11/01/86