

Daniel A. Reed

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Education

B. S. (<i>summa cum laude</i>)	Computer Science	Missouri University of S&T	December 1978
M. S.	Computer Science	Purdue University	May 1980
Ph.D.	Computer Science	Purdue University	May 1983

Academic Experience

- Post-doctoral Research Associate, Purdue University, May 1983-August 1983
- Assistant Professor, University of North Carolina at Chapel Hill, August 1983-July 1984
- Assistant Professor, University of Illinois at Urbana-Champaign, August 1984-August 1988
- Associate Professor, University of Illinois at Urbana-Champaign, August 1988-August 1991
- Professor, University of Illinois at Urbana-Champaign, August 1991-2003
- Edward William and Jane Marr Gutgsell Professor, University of Illinois, 2000-2003
- Senior Research Scientist, National Center for Supercomputing Applications, 1995-2000
- Chancellor's Eminent Professor, University of North Carolina at Chapel Hill, 2004-2007
- University Computational Science and Bioinformatics Chair, joint appointments in Computer Science, Electrical and Computing Engineering and Medicine. University of Iowa, 2012-present

Leadership Experience

University of Iowa

- Vice President for Research and Economic Development, 2012-present
 - Responsible for campus-wide research oversight, technology transfer and campus-wide research and policy centers
- Chaired Professor, Computer Science, Electrical and Computer Engineering and Medicine

Microsoft

- Director, Scalable and Multicore Computing, Microsoft, 2007-2009
 - Built and led research and prototyping on cloud and parallel computing
- Corporate Vice President, Microsoft, 2009-2012
 - Reported at various times to the Head of Microsoft Research and later to the Chief Research and Strategy Officer, who reports to the CEO
 - Led a team that focused on advanced prototyping for extreme computing and later led a long-term technology policy team that engaged with global influentials, targeting privacy/security, Internet and telecommunication futures, cloud computing, research university structure and innovation and other topics

University of North Carolina

- Director, Renaissance Computing Institute, 2004-2007
 - Founded and built institute for multidisciplinary engagement
 - Statewide research, outreach and economic development
- Vice-Chancellor for Information Technology and CIO, 2004-2007
 - Merged two organizations, recruited new senior leadership
 - ~600 staff and \$60M annual budget
- Senior Advisor for Strategy and Innovation, 2007
 - Chancellor's advisor on 21st century research university directions

University of Illinois

- Head, Department of Computer Science, May 1996-2001

- ~2000 students, 40 faculty and 100 staff
- Helped secure \$30M donation (Thomas Siebel) for new building
- Director, National Computational Science Alliance, March 2000-2003
 - ~50 institution national partnership, funded by NSF
- Director, National Center for Supercomputing Applications, September 2000-2003
 - ~250 staff and \$80M annual budget
- Chief Architect, NSF Extensible Terascale Facility TeraGrid, 2001-2003
 - \$88M U.S. federal initiative

Other Positions

- Visiting Scholar, Indonesian Second University Development Project, 1990, Jakarta, Indonesia
- Visiting Scientist, IBM T. J. Watson Research Center, July 1990-December 1990

Professional Memberships

- Member, Association for Computing Machinery (ACM), 1978-present, Fellow, 2003-present
- Member, IEEE, 1980-present, Fellow, 2004-present
- Member, AAAS, 1986-present, Fellow, 2007-present
- International Federation for Information Processing, Working Group WG10.3, 1993-present

University and National Awards

- Honorary Professional Degree, Missouri University of Science and Technology, 2010
- Distinguished Alumnus, School of Science, Purdue University, 2008
- Best Paper Award, Large-Scale System and Application Performance Workshop, 2009
- Best Technical Paper Award, *Supercomputing 2004*
- Chancellor's Eminent Professor, 2004-2007
- William R. Kenan, Jr. Eminent Professor, 2004
- Edward William and Jane Marr Gutgsell Professor, 2000-2003
- Xerox Senior Research Award, University of Illinois at Urbana-Champaign, 1991
- University Scholar, University of Illinois at Urbana-Champaign, 1989
- Beckman Associate, Center for Advanced Study, University of Illinois, 1989-1990
- University Scholar, University of Illinois at Urbana-Champaign, 1989
- National Science Foundation, Presidential Young Investigator Award, 1987-1992
- ACM SIGMETRICS Best Award Paper, 1987
- IBM Faculty Development Award, 1984-1985

Recent Public and Professional Service

- NIH Biomedical Computing Research Centers Advisory Committee, 2012-
- B20 ICT Innovation Working Group, co-chair, 2012
- International Telecommunications Union, CTO Council, 2010-2012
- Center for Minorities and People with Disabilities in Information Technology, Board of Advisors, 2011-present
- IEEE Seymour Cray and Sidney Fernbach Awards Committee, Chair, 2009-
- TechAmerica Cloud Commission, Commercial Co-Chair, 2011
- Computing in the Core, Executive Committee, 2011-present
- Sandia National Laboratory Extreme-Scale Computing Grand Challenge External Advisory Board, 2011-
- U.S. Federal Communication Commission, Technical Advisory Group, 2011-2012
- National Archives and Records Administration, ACERA, 2005-2011
- National Academies, Board on Research Data and Information, 2009-2011
- National Academies, Board on Global Science and Technology, 2010-
 - Chair, Committee on Global Approaches to Advanced Computing
- Broad Institute, GenomeSpace, Scientific Advisory Board, 2008-2010

- NERSC (National Energy Research Scientific Computing Center) Policy Board of the Lawrence Berkeley National Laboratory, 2001-present, Chair, 2003-present
- Los Alamos National Laboratory, Strategic Computing Review Committee, Chair, 2008-present
- U.S. President's Council of Science and Technology Advisors (PCAST), 2006-2008
 - Co-chair, committee on networking and IT research and development
- U.S. President's Information Technology Advisory Committee (PITAC), 2003-2005
 - Chair, IT and Computational Science Subcommittee, report available at www.nitrd.gov/pitac/reports
- National Center for Computational Sciences, ORNL, Advisory Committee, 2006-2007
- Defense Science Board, NNSA Strategic Computing Plan Task Force, 2008
- DARPA Exascale Software Study, 2008
- NSF Alan T Waterman Award Selection Committee, 2004-2006
- DOE Tri-laboratory Nuclear Stockpile Stewardship Review, 2004-2007
- Biomedical Informatics Expert Panel, National Institute of Health's National Center for Research Resources, 2004-2007
- Testimony, U.S. House of Representatives Science Committee, July 2003, May 2004, July 2008
- Testimony, U.S. Senate Energy Resources Subcommittee, June 2004
- Testimony, U.S. Senate Commerce Committee, April 2008
- Testimony, U.S. House of Representatives Science and Technology Subcommittee, 2011
- Council on Competitiveness, HPC Advisory Committee, 2004-2007
- Army Research Laboratory Review Panel for Digitization and Communications Science, 2005-2007
- International Conference on Cluster Computing, Advisory Committee 2003-present
- Illinois VentureTECH Advisory Committee, appointed by Illinois Governor Ryan, 2000-2003
- Georgia Institute of Technology, College of Computing Advisory Board, 2000-present
- Steering Committee, SC'XY Conference on High-Performance Computing, 2000-2003, 2007-2011
- Argonne/University of Chicago Computation Institute External Advisory Council, 2000-2005
- Co-chair, Grid Physics Network (GriPhyN) Steering Committee, 2001-present
- Advisory Committee, NSF Computer and Information Science and Engineering (CISE) Directorate, 1997-2000
 - Chair, High-Performance Computing Advisory Subcommittee, 1998-2000
- Electorate Nomination Committee of the Section on Information, Computing, and Communication, AAAS, 2001-2004
- Member-at-Large, Section on Information, Computing, and Communication, AAAS, 2002-2006
- Steering Committee, Linux Cluster Institute, 2002-2003
- Organizing Committee, Department of Homeland Security, Advanced Scientific Computing Requirements Workshop, 2003
- Board of Directors, Computing Research Association (CRA), 1998-2009
 - Chair, 2005-2009
 - Chair, Awards Committee, 1998-1999
 - Chair, Government Affairs Committee, 1999-2001
 - AAAS Society Representative, 2001-present
 - Government Affairs Committee, 1999-present
- Joint US/Russian Information Technology Exchange, Moscow, September 1999
- Chair, NSF Review Committee, National Center for Atmospheric Research (NCAR), 1999