

Exhibit 1

Curriculum Vitae

Michael E. Mann

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Education

- 1998 Ph.D. Yale University, Department of Geology & Geophysics (defended 1996)
- 1993 M.Phil. Yale University, Department of Geology & Geophysics
- 1991 M.Phil. Yale University, Department of Physics
- 1991 M.S. Yale University, Department of Physics
- 1989 A.B. (double), University of California-Berkeley, Applied Math, Physics (Honors)

Honors and Awards

- 2012 Awarded the Hans Oeschger Medal of the European Geosciences Union
- 2012 Inducted as a Fellow of the American Geophysical Union
- 2008 Profiled in *American Environmental Leaders From Colonial Times to the Present*
- 2008 Website "RealClimate.org" (co-founded by M. Mann) chosen as one of top 15 "green" websites by *Time Magazine* (April 2008)
- 2007 Co-awarded (with other IPCC report authors) the 2007 Nobel Peace Prize
- 2006 American Geophysical Union Editors' Citation for Excellence in Refereeing (for 'Geophysical Research letters')
- 2005 Website "RealClimate.org" (co-founded by M. Mann) chosen as one of top 25 "Science and Technology" websites by *Scientific American*
- 2005 John Russell Mather Paper award for 2005 by the Association of American Geographers [for article: Frauenfeld, O., Davis, R.E., and Mann, M.E., A Distinctly Interdecadal Signal of Pacific Ocean-Atmosphere Interaction, *Journal of Climate* 18, 1709-1718, 2005]
- 2002 Named by *Scientific American* as one of 50 leading visionaries in science and technology
- 2002 Outstanding Scientific Paper award for 2002 by NOAA Office of Oceanic and Atmospheric Research (OAR) [for article: Delworth, T.L., Mann, M.E., Observed and Simulated Multidecadal Variability in the Northern Hemisphere, *Climate Dynamics*, 16, 661-676, 2000]
- 2002 Article [Mann et al, "Global-scale temperature patterns and climate forcing over the past six centuries", *Nature*, 392, 779-787, 1998] selected for 'fast moving fronts' by Institute for Scientific Information (ISI)
- 2002 Selected as one of 10 'Mead Honored Faculty', University of Virginia
- 1998 Council of Graduate Schools' Distinguished Dissertation Award, nominated
- 1997 Phillip M. Orville Prize for outstanding dissertation in the earth sciences, Yale University
- 1996 Alexander Hollaender Distinguished Postdoctoral Fellowship (DOE)
- 1989 Josiah Willard Gibbs Prize for outstanding research and scholarship in Physics, Yale University

Professional Experience (1996-present)

- 2009- *Professor*, Pennsylvania State University, Department of Meteorology [joint appointments in Department of Geosciences and Earth and Environmental Systems Institute (EESI)]
2005-09 *Associate Professor*, Pennsylvania State University, Department of Meteorology [joint appointments in Department of Geosciences and Earth and Environmental Systems Institute (EESI)]
2005- *Director*, Earth System Science Center (ESSC), Pennsylvania State University
1999-05 *Assistant Professor*, University of Virginia, Department of Environmental Sciences
1998-99 *Research Assistant Professor*, University of Massachusetts, Department of Geosciences
1997-98 *Adjunct Assistant Professor*, University of Massachusetts, Department of Geosciences
1996-98 *Alexander Hollaender Distinguished Postdoctoral Research Fellow* (DOE)

Courses Taught

Penn State University:

EARTH 2	<i>The Earth System and Global Change</i>
EM SC 100S	<i>Climate Change and Potential Societal Impacts (1st year seminar)</i>
ENNEC 472	<i>Quantitative Analysis in the Earth Sciences</i>
METEO 469	<i>From Meteorology to Mitigation: Understanding Global Warming</i>
METEO 470	<i>Climate Dynamics</i>
METEO 523	<i>Climate Modeling</i>
METEO 597B/GEOSCI 597B	<i>Climate Dynamics Seminar</i>

University of Virginia:

EVSC 181	<i>Climate Change: Past and Future</i>
EVSC 350	<i>Atmosphere and Weather</i>
EVSC 495	<i>Capstone Seminar: The Arctic</i>
EVCS 494/495/EVAT795	<i>Data Analysis & Climate Change</i>
EVSC 494/EVAT 796	<i>Climate and the History of Human Culture</i>
EVAT 554	<i>Ocean-Atmosphere Dynamics</i>
EVAT 793	<i>Statistical Climatology</i>
EVAT 795	<i>Modeling of Climate Variability</i>

University of Massachusetts:

GEO 591	<i>Data Analysis & Climate Change</i>
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Mentoring

Postdoctoral Researchers:

Penn State University (2005-)

Dept. of Meteorology:

- *Zhihua Zhang*, 2005-2009
- *Ryan Sriver (NOAA Postdoctoral Fellow)* 2008-2009
- *Byron Steinman (NSF Postdoctoral Fellow)*, 2012-

University of Virginia (1999-2005)

Dept. of Environmental Sciences:

- *Feinbao Ni* (joint w/ M. Hughes, University of Arizona), 2002-2003
- *Pedro Ribera*, (Visiting postdoctoral research fellow, University of Vigo, Spain), 2000
- *Scott Rutherford*, 2000-2003
- *Mei-Yu* (joint w/ H. Epstein), 2002-2003

Graduate Students:

Penn State University (2005-)

Dept. of Meteorology:

- *Aviva Braun*, M.S. 2009: committee member, 2008-09
- *Fangxing Fan*, Ph.D. 2011: major adviser, 2005-11
- *Maria Herrmann*, Ph.D. 2010: committee member, 2008-10
- *Brandon Katz*, M.S. 2009: co-adviser, 2006-09
- *Muge Komercu*, Ph.D. candidate: co-adviser, 2006-08
- *Michael Kozar*, M.S. 2011: major adviser, 2010-11
- *Liang Ning*, Ph.D. candidate: major adviser, 2008-
- *Andrew Ross*, M.S. 2011: committee member, 2012-
- *Michelle Ricciardi*, M.S. 2011: committee member, 2011
- *Thomas Sabbatelli*, M.S. 2009 (*AMS Graduate Fellow*): co-adviser, 2008-09
- *Steven Simon*, Ph.D. candidate: major adviser, 2011-

Dept. of Geosciences:

- *Patrick Applegate*, Ph.D. 2009: committee member, 2005-09
- *Joshua Dorin*, M.S. 2008: committee member, 2006-08
- *John Mischler*, M.S. 2008: committee member, 2007-08

Dept. of Geography:

- *Chris Karmosky*, Ph.D. candidate: committee member, 2009-

Dept. of Civil and Environmental Engineering

- *Kathryn van Werkhoven*, Ph.D. 2008: committee member, 2007-08

University of Virginia (1999-2005)

Dept. of Environmental Sciences:

- *Julian Adams*, M.S. 2003: major adviser, 2000-2003
- *Kaycie Billmark*, Ph.D. 2003: committee member, 1999-2003
- *Joel Carr*, M.S. 2002: committee member, 2000-2002
- *Peter Cleary*, M.S. 2004: co-adviser, 2002-2004
- *Benjamin Cook*, M.S. 2004; Ph.D. 2007: co-adviser, 2001-2005
- *Dan Druckenbrod*, Ph.D. 2003: committee member, 1999-2003
- *Oliver Frauenfeld* Ph.D. 2003: committee member, 2001-2003
- *Ian German-Mesner*, M.S. candidate: major adviser, 2002-
- *Kevin Jones*, M.S. 2002: committee member, 2001-2002
- *Courtney Strong*, Ph.D. 2005: committee member, 2003-2005
- *Tana Wood*, M.S. 2002; Ph.D. 2005: committee member, 2001-2005
- *Zhihua Zhang*, Ph.D. 2006: major adviser, 2000-2006

University of Massachusetts (1997-1999)

Dept. of Geosciences:

- *Caspar Ammann*, Ph.D. 2000: co-adviser, 1998-2000
- *Anne Waple*, Ph.D. 1999: co-adviser and committee member, 1997-1999
- *Bo-Min Sun*, Ph.D. 1999: committee member, 1998-1999

External Committee Member (2001-)

- *Phil Lane*, Ph.D. 2001: external committee member, MIT, 2010-11
- *Heidi Cullen*, Ph.D. 2001: external committee member, Columbia University, 2000-01
- *Silvia Venegas*, Ph.D. 2001: external committee member, University of Copenhagen, 2000-01

Undergraduates:

Penn State University (2005-)

Dept. of Meteorology:

- *Greg Drelich*, 2012
- *Michael Kozar*, 2009-2010
- *Thomas Sabbatelli*, 2005-2008

University of Virginia (1999-2005)

Dept. of Environmental Sciences:

- *Michelle L'Heureux*, Distinguished Majors Research Project, University of Virginia, 2001-02.

Primary Research Interests

(1) Climate signal detection and climate change attribution; (2) Statistical and time series analysis methods; (3) High-resolution paleoclimate reconstruction; (4) Study of forced and internal variability in coupled ocean-atmosphere models; and model/data intercomparison; (5) Coupled ocean-atmosphere modeling; (6) Use of climate scenarios to drive process-oriented models of environmental phenomena

Funded Proposals

- 2011-2014 *Megadrought: Local vs Remote Causal Factors for Medieval North America*, NSF-Paleo Perspectives on Climate Change Program [Principal Investigator: S. Feng (Univ. of Nebraska); Co-Investigators: Q. Hu, R.J. Oglesby, C.M. Rowe (Univ. of Nebraska), M.E. Mann (Penn State Univ.)] PSU award (M.E. Mann): \$151,755
- 2011-2014 *Advanced Regional And Decadal Predictions Of Coastal Inundation for the U.S. Atlantic and Gulf Coasts*, NOAA-Improving NOAA's Climate Services for the Coastal Zone (Special Competition) [Principal Investigators: B. Horton (Univ. of Pennsylvania), J. Donnelly (WHOI), Reide Corbett (East Carolina Univ.), A. Kemp (Yale University), K. Lindeman (Florida Inst. Tech.), M.E. Mann (Penn State Univ.), D. Peltier (Univ. of Toronto, Canada), S. Rahmstorf (University of Potsdam, Germany)] PSU award (M.E. Mann): \$120,463
- 2011-2014 *Climate and Society – Innovative and Sustainable Collaboration with Senegal*, Penn State University-AESED program [Principal Investigator: J.D. Fuentes; Co-Investigators: P. Tschakert, J. L. Evans, A. M. Thompson, and M.E. Mann] PSU internal award: \$75,000
- 2010-2012 *Climate Literacy Zoo Education Network*, NSF-Arctic Research & Education [Principal Investigators: A. Grajal (Chicago Zoological Society), S.R. Goldman (Univ. of Illinois-Chicago), M.E. Mann (Penn State Univ.)] PSU award (M.E. Mann): \$32,733
- 2010-2013 *Development of a Northern Hemisphere Gridded Precipitation Dataset Spanning the Past Half Millennium for Analyzing Interannual and Longer-Term Variability in the Monsoons*, NOAA-Climate Change Data & Detection (CCDD) Program [Principal Investigators: Q. Hu, S. Feng, R.J. Oglesby (Univ. of Nebraska), M.E. Mann (Penn State Univ.)] PSU award (M.E. Mann): \$249,800
- 2009-2013 *Quantifying the influence of environmental temperature on transmission of vector-borne diseases*, NSF-EF [Principal Investigator: M. Thomas; Co-Investigators: R.G. Crane, M.E. Mann, A. Read, T. Scott (Penn State Univ.)] \$1,884,991
- 2009-2012 *Toward Improved Projections of the Climate Response to Anthropogenic Forcing: Combining Paleoclimate Proxy and Instrumental Observations with an Earth System Model*, NSF-ATM [Principal Investigator: M.E. Mann; Co-Investigators: K. Keller (Penn State Univ.), A. Timmermann (Univ. of Hawaii)] \$541,184
- 2008-2011 *A Framework for Probabilistic Projections of Energy-Relevant Streamflow Indices*, DOE [Principal Investigator: T. Wagoner; Co-Investigators: M. Mann, R. Crane, K. Freeman (Penn State Univ.)] \$330,000
- 2008-2009 *AMS Industry/Government Graduate Fellowship* (Anthony Sabbatelli), American Meteorological Society [Principal Investigator: M.E. Mann (Penn State Univ.)] \$23,000
- 2006-2009 *Climate Change Collective Learning and Observatory Network in Ghana*, USAID [Principal Investigator: P. Tschakert; Co-Investigators: M.E. Mann, W. Easterling (Penn State Univ.)] \$759,928
- 2006-2009 *Analysis and testing of proxy-based climate reconstructions*, NSF-ATM [Principal Investigator: M.E. Mann (Penn State Univ.)] \$459,000
- 2006-2009 *Constraining the Tropical Pacific's Role in Low-Frequency Climate Change of the Last Millennium*, NOAA-Climate Change Data & Detection (CCDD) Program [Principal

- Investigators: K. Cobb (Georgia Tech Univ.), N. Graham (Hydro. Res. Center), M.E. Mann (Penn State Univ.), Hoerling (NOAA Clim. Dyn. Center), Alexander (NOAA Clim. Dyn. Center)] PSU award (M.E. Mann): \$68,065
- 2006-2007 *Acquisition of high-performance computing cluster for the Penn State Earth System Science Center (ESSC)*, NSF-EAR [Principal Investigator: M.E. Mann, Co-Investigators: R. Alley, M. Arthur, J. Evans, D. Pollard (Penn State Univ.)] \$100,000
- 2003-2006 *Decadal Variability in the Tropical Indo-Pacific: Integrating Paleo & Coupled Model Results*, NOAA-Climate Change Data & Detection (CCDD) Program [Principal Investigators: M.E. Mann (U.Va), J. Cole (U. Arizona), V. Mehta (CRCES)] U.Va award (M.E. Mann): \$102,000
- 2002-2005 *Reconstruction and Analysis of Patterns of Climate Variability Over the Last One to Two Millennia*, NOAA-Climate Change Data & Detection (CCDD) Program [Principal Investigator: M.E. Mann, Co-Investigators: S. Rutherford, R.S. Bradley, M.K. Hughes] \$315,000
- 2002-2005 *Remote Observations of Ice Sheet Surface Temperature: Toward Multi-Proxy Reconstruction of Antarctic Climate Variability*, NSF-Office of Polar Programs, Antarctic Oceans and Climate System [Principal Investigators: M.E. Mann (U. Va), E. Steig (U. Wash.), D. Weinbrenner (U. Wash)] U.Va award (M.E. Mann): \$133,000
- 2002-2003 *Paleoclimatic Reconstructions of the Arctic Oscillation*, NOAA-Cooperative Institute for Arctic Research (CIFAR) Program [Principal Investigators: Rosanne D'Arrigo, Ed Cook (Lamont/Columbia); Co-Investigator: M.E. Mann] U.Va subcontract (M.E. Mann): \$14,400
- 2002-2003 *Global Multidecadal-to-Century-Scale Oscillations During the Last 1000 years*, NOAA-Climate Change Data & Detection (CCDD) Program [Principal Investigator: Malcolm Hughes (Univ. of Arizona); Co-Investigators: M.E. Mann; J. Park (Yale University)] U.Va subcontract (M.E. Mann): \$20,775
- 2001-2003 *Resolving the Scale-wise Sensitivities in the Dynamical Coupling Between Climate and the Biosphere*, University of Virginia-Fund for Excellence in Science and Technology (FEST) [Principal Investigator: J.D. Albertson; Co-Investigators: H. Epstein, M.E. Mann] U.Va internal award: \$214,700
- 2001-2002 *Advancing predictive models of marine sediment transport*, Office of Naval Research [Principal Investigator: P. Wiberg (U.Va), Co-Investigator: M.E. Mann] \$20,775
- 1999-2002 *Multiproxy Climate Reconstruction: Extension in Space and Time, and Model/Data Intercomparison*, NOAA-Earth Systems History [Principal Investigator: M.E. Mann (U.Va), Co-Investigators: R.S. Bradley, M.K. Hughes] \$381,647
- 1998-2000 *Validation of Decadal-to-Multi-century climate predictions*, DOE [Principal Investigator: R.S. Bradley (U. Mass); Co-Investigators: H.F. Diaz, M.E. Mann]
- 1998-2000 *The changing seasons? Detecting and understanding climatic change*, NSF-Hydrological Science [Principal Investigator U. Lall (U. Utah); Co-investigators: M.E. Mann, B. Rajagopalan, M. Cane] \$266,235K
- 1996-1999 *Patterns of Organized Climatic Variability: Spatio-Temporal Analysis of Globally Distributed Climate Proxy Records and Long-term Model Integrations*, NSF-Earth Systems History [Principal Investigator: R.S. Bradley (U. Mass); Co-Investigators: M.E. Mann, M.K. Hughes] \$270,000
- 1996-1998 *Investigation of Patterns of Organized Large-Scale Climatic Variability During the Last Millennium*, DOE, Alexander Hollaender Postdoctoral Fellowship [M.E. Mann] \$78,000

Professional Activities

- 2011-12 Expert Reviewer, Working Group I report, *Intergovernmental Panel on Climate Change (IPCC)*, Fifth Assessment Report

- 2011-12 Co-organizer (w/ G. Schmidt, V. Masson-Delmotte, M. Kageyama, E. Guilyardi, A. Timmermann), Workshop on using paleo-climate model/data comparisons to constrain future projections, *PAGES/CLIVAR*, Honolulu, Hawaii, Mar 1-3, 2012.
- 2011-15 Elected Member-at-Large of Section W (Atmospheric & Hydrospheric Sciences), *American Association for the Advancement of Science (AAAS)*
- 2011 Co-convener/organizer (w/ F. Mekik, S. Mitra, R. Sriver, C. Whitlock, J. Zhu, A. Zimmer), Session on "Using Paleo and Modern Observations to Improve Understanding of Climate Projections, Environmental Change, and Biomass Burning", *AGU Fall Meeting*
- 2011 Co-convener/organizer (w/ G. Stone, A. Buddington, and M. Chandler), Session on "Extreme Climate and Weather Events: Past, Present, and Future", *GSA Annual Meeting*
- 2010 Invited Science Foo Camp ("Sci Foo") participant, event organized by *Nature*, O'Reilly Media, and Google, Googleplex, Mountain View, CA, July 30-Aug 1, 2010
- 2010 Co-convener/organizer (w/ G. Stone, A. Buddington), Session on "Exposing Myths and Misrepresentations of Climate Change and Evolution Science", *GSA Annual Meeting*
- 2009 Co-convener/organizer (w/ G. Stone, A. Buddington), Pardee Keynote Symposium on "Crisis In The Cryosphere", *GSA Annual Meeting*
- 2009- Guest Editor, *Proceedings of the National Academy of Sciences*
- 2009 Panel Discussion Participant, "Communicating Climate Change", National Science Foundation, Arlington VA, 2009, January 8
- 2007-08 Associate Editor, *G-Cubed*, special issue on "Tropical Cyclone-Climate Interactions on All Time Scales"
- 2007 Co-convener/organizer (w/ P. Jones), IAMAS session on "The Holocene-Anthropocene Transition: From Natural to Human-Dominance of the Earth System", *IUGG 24th General Assembly*
- 2007-08 Member of steering committee, "post-Earth Systems History" workshop, NSF
- 2007 Co-convener/organizer (w/ J. Jouzel, P. Jones, W. Dullo), special session "Climate of the last millennium", 4th General Assembly, *European Geophysical Union*
- 2006 Co-convener/organizer (w/ K. Emanuel, M. Huber, J. Gullledge, P. Webster), theme session "Tropical Cyclone-Climate Interactions on All Time Scale", Annual Fall meeting, *American Geophysical Union*
- 2006 Provided testimony to U.S. House of Representatives ('Energy and Commerce' Committee hearing, July 27)
- 2006 Co-chair, Workshop on "Past Millennia Climate Variability", Wengen Switzerland
- 2006 Co-convener/organizer (w/ J. Jouzel, P. Jones, W. Dullo), special session "Climate of the last millennium", 3rd General Assembly, *European Geophysical Union*
- 2005- Editorial advisory board, *The Holocene*
- 2005-06 Expert Reviewer, Working Group I report, *Intergovernmental Panel on Climate Change (IPCC)*, Fourth Assessment Report
- 2005 Co-convener/organizer (w/ J. D. Gong and Luterbacher), special session "Explaining the Climates of Historic Times: Detection and Attribution of Anthropogenic Influences", Biennial Assembly of *IAMAS*
- 2005 Co-convener/organizer (w/ J. Jouzel, P. Jones, W. Dullo), special session "Climate of the last millennium", 2nd General Assembly, *European Geophysical Union*
- 2004 Co-convener/organizer (w/ J. Jouzel, P. Jones, W. Dullo), special session "Climate of the past millennium", 1st General Assembly, *European Geophysical Union*
- 2003-04 Member, National Academy of Sciences/National Research Council *Committee on Radiative Forcing Effects on Climate*
- 2003 Provided testimony to U.S. Senate ('Environment and Public Works' Committee hearing, July 29)
- 2003 Chair of organizing committee, National Academy of Sciences *Frontiers of Science* symposium

- 2003 Co-convenor/organizer (w/ P. Jones, V. Masson-Delmotte), IAMAS session on `` Climate of the Holocene'', *IUGG*
- 2003 Co-convenor/organizer (w/ J. Jouzel, P. Jones, W. Dullo), special session `` Climate of the past millennium'', 28th General Assembly, *European Geophysical Society*
- 2003-05 Advisory board member for *Scientific American* 'Scientific American 50'
- 2003 Invited Participant, *Workshop on Estimating Climate Sensitivity*, National Academy of Sciences
- 2003-06 Member of steering committee, NSF Marine Earth Systems History (MESH) Panel
- 2003-05 Committee on Probability & Statistics, American Meteorological Society
- 2002- IAMAS delegate for U.S./International Commission on Climate (ICCL)
- 2002 Organizing committee, National Academy of Sciences *Frontiers of Science* symposium
- 2002 Co-convenor/organizer (w/ H. Von Storch, R. Brazdil), theme session ``Understanding the Late Maunder Minimum climate anomaly'', Annual Spring meeting, *American Geophysical Union*
- 2002 Co-convenor/organizer (w/ J. Jouzel, P. Jones, W. Dullo), special session `` Climate of the past millennium'', 27th General Assembly, *European Geophysical Society*
- 2001-02 Member, advisory board, *Earth Interactions* (American Geophysical Union)
- 2001 Chair/Organizer, session on "Climate Change Detection/Attribution", National Academy of Science *Frontiers of Science* annual symposium, Irvine, California, Nov 8-10, 2001.
- 2001 Organizer and Host, *PAGES/CLIVAR workshop on Reconstructing Late Holocene Climate*, Charlottesville, Virginia, April 17-20, 2001.
- 2001 Co-convenor/organizer (w/ J. Jouzel, P. Jones), special session `` Climate of the past millennium'', 26th General Assembly, *European Geophysical Society*
- 2001 Co-convenor/organizer, *NASA /IPRC/ CLIVAR workshop on Decadal Climate Variability*, Manoa, Hawaii, Jan 8-12, 2001.
- 2000- Member of Working Group, *International PAGES/CLIVAR*
- 2000-04 Panel member, *NOAA Climate Change Data and Detection Program*
- 2000-02 Editor, *Journal of Climate*
- 2000 Co-convenor (w/ J. Jouzel, P. Jones), special session `` Climate of the past millennium'', 25th General Assembly, *European Geophysical Society*
- 1999 Co-convenor/organizer (w/ J. Jouzel), special session ``Data and model studies of climate changes over the last millennium'', 24th General Assembly, *European Geophysical Society*
- 1999 Invited adviser, *NOAA Global Change and Climate Panel*, Boulder, CO
- 1999 Guest editor, special issue of *Climatic Change*
- 1999 Co-convenor (w/ J. Overpeck), *PAGES/CLIVAR workshop on multiproxy climate reconstruction*, Boulder, CO
- 1998-00 Lead author, Chapter 2, *Intergovernmental Panel on Climate Change (IPCC)*, Third Assessment Report
- 1998-00 Contributing author, Chapters 7,8,12, *Intergovernmental Panel on Climate Change (IPCC)*, Third Assessment Report
- 1997 Co-convenor/organizer (w/ E. Cook, H. Pollack, D. Chapman), theme session ``Multiproxy Climate Reconstruction...', Annual Fall meeting, *American Geophysical Union*
- Memberships: *American Meteorological Society*; *American Geophysical Union*; *European Geophysical Society*; *Geological Society of America*; *American Physical Society*; *American Association for the Advancement of Science*; *Sigma Xi*
 - Reviewer for: *Nature*; *Science*; *PNAS*; *Geology*; *Climatic Change*; *Geophysical Research Letters*; *Journal of Climate*; *JGR-Ocean*; *JGR-Atmospheres*; *Paleoceanography*; *Climate Dynamics*; *Eos*; *Int. J. Climatol.*; *Water Resources Research*; *Holocene*; *GSA Today*; *Climate of the Past*; *Earth and Planetary Science Letters*; *Global & Planetary Change*; *Water Resources Research*; *Atmospheric & Solar-Terrestrial Physics*; *Climate Research*; *PLoS Biology*; *National Research Council/National Academy of Sciences*; *IPCC AR5*; *NSF*, *NOAA*, *DOE* grant programs; *U.S. CCSP*; several books.

Public Outreach:

- Popular Media (interviewed/quoted/cited):
 - Television: CBS Evening News, NBC Evening News, ABC Evening News, NBC Today Show, CNN, CNN headline news, CNN (Lou Dobbs show), CNN (Campbell Brown Show), MSNBC, MSNBC ("Up with Chris Hayes"), MSNBC ("Now with Alex Wagner"), PBS, BBC Channel 2; CBC Television (George Stroumboulopoulos Show, Canada); Current TV ("The Young Turks" with Cenk Uygur); Current TV ("The War Room" with Jennifer Granholm); ABC (Lateline Show; Australia); RT Network (Thom Hartmann Show); Al Jazeera English ("Inside Story"); The Weather Channel, The Research Channel, Accuweather ("Headline Earth"), Weather World (PCN) (and numerous local television news programs)
 - Radio: BBC, NPR ("All Things Considered"; "Talk of the Nation"; "Earth and Sky"; "Science Friday"; "Diane Rehm Show"; "On Point with Tom Ashbrook"), PRI ("To The Point"); Fox News ("Alan Colmes Show"), Michael Smerconish show; WPSU, WCBS, Voice of America; CBC Radio ("The Current"); Stand Up! With Pete Dominick (Sirius/XM radio); Majority Report with Sam Seder; Ring of Fire with Robert F. Kennedy Jr., Pennsylvania Public Radio; "Explorations in Science" with Michio Kaku, WAMU radio (Kojo Nnamdi show); On the Green Front with Betsy Rosenberg (Progressive Radio Network); KTRH radio (Houston), Radio PA (Harrisburg), WWL Radio News (New Orleans) (and numerous others)
 - Print (weekly/monthly): Time, Newsweek, Life, US News & World Report, New Republic, Economist, Rolling Stone, Vanity Fair, Mother Jones, American Prospect, The Nation, Chronicle of Higher Education, Miller-McCune, Macleans (and numerous others)
 - Print (weekly/monthly, scientific): Scientific American, New Scientist, National Geographic, Discover, Science News, Science, Nature, Popular Science, Seed, Cosmos, Geotimes, Weekly Reader ("current science"), Audubon Magazine (and numerous others)
 - Print (daily): USA Today, New York Times, New York Times "Science Times", New York Daily News, Washington Post, Wall Street Journal, National Journal, Boston Globe, Los Angeles Times, San Francisco Chronicle, Seattle Times, Houston Chronicle, Chicago Tribune, International Herald Tribune, Philadelphia Inquirer, Pittsburgh Tribune-Review, Pittsburgh Post-Gazette, Miami Herald, Washington Times, Christian Science Monitor; National Post (Canada); London Times (UK), The Guardian (UK), Die Welt (Germany), Le Monde (France), Pravda (Russia) (and numerous others)
 - Print (daily, syndicated): AP, UPI, Reuters, Scripps Howard, Knight Ridder, McClatchy, Ascribe, Greenwire
 - Online: Huffington Post, Salon, Slate, Discovery Channel online, National Geographic online, LiveScience (and numerous others)
 - Profiles: Scientific American, Discover, Fortune, New Scientist, Mother Jones, Audubon Magazine, Williamsport Guardian, The Independent (UK), Le Monde (France)
 - Other: Museum of Modern Art (New York), assistance with exhibition on "Design and the Elastic Mind", Fall 2007
- Op-Eds/Commentaries published: *The Vancouver Sun* (June 7, 2012), *World Financial Review* (May/June, 2012), *The Reporter* (May 14, 2012), *The Helsinki Times* (May 9, 2012), *The Mark News* (April 20, 2012), *The Trentonian* (April 13, 2012), *CNN* (March 28, 2012), *Orange Country Register* (Mar 16, 2012), *BBC Knowledge* (Feb 2012), *BBC Focus* (Dec 2011), *Politico* (Mar 8, 2011), *New Scientist* (Nov 2, 2010), *Milwaukee Journal Sentinel* (Oct 9, 2010), *Washington Post* (Oct 8, 2010), *Minneapolis Star-Tribune* (Jul 29, 2010), *Voices of Central Pennsylvania* (Feb 2010), *Washington Post* (Dec 18, 2009; reprinted in *Miami Herald* 12/19/09, *Salt Lake Tribune* 12/18/09, and *Monterey Herald* 12/21/09), *Harrisburg Patriot-News* (PA; Feb 11, 2007), *St Louis Post-Dispatch* (Feb 23, 2006), *The Press* (NJ; Feb 7, 2006), *Roanoke Times* (Feb 7, 2006), *Middleton Times-Herald* (NY; Feb 7, 2006), *Akron Beacon Journal* (Feb 6, 2006), *Anniston Star* (AL; Feb 5, 2006), *Newark Star-Ledger* (Feb 5, 2006), *Salt Lake Tribune* (Feb 3, 2006), *Post Standard* (NY; Feb 2, 2006), *Providence Journal* (Oct 3, 2003), *Seattle News-Tribune* (Aug 10, 2003)

- Letters published: "Climate Wars Continue With More Heat Than Light" (*Wall Street Journal*, Mar 22, 2012); "Climate-change deniers cannot change the facts" (*Pittsburgh Post-Gazette*, Feb 28, 2012), "Expertise a prerequisite to comment on climate" (*The Australian*, Feb 3, 2012)' "Check With Climate Scientists for Views on Climate" (*Wall Street Journal*, Feb 1, 2012); "Climate Contrarians Ignore Overwhelming Evidence" (*Wall Street Journal*, Dec 5, 2011); "Sticking to Climate Science" (*Scientific American*, Oct 2011); "IceBerg Ahead" (*Newsweek*, Mar 15, 2010); "It's the Critics of Warming Who Lack Credibility" (*Wall Street Journal*, July 15, 2010); "Science Journals Must Be Unpolluted by Politics" (*Wall Street Journal*, Dec 31, 2009); "The e-mail storm over climate change" (*Washington Post*, Dec 1, 2009); "Base climate strategy on best science available" (w/ Ray Najjar) (*Harrisburg Patriot-News*, Oct 18, 2009; response to "Al Gore and the Climate Change Debate" (w/ Gavin Schmidt) (*New York Times*, Mar 20, 2007) (and numerous others)
- Review quotes: *Snowcial: An Antarctic Social Network Story* by Chelsea Prince (book jacket, 2012); *Navigating The Perfect Moral Storm: Climate Ethics* by Donald Brown (book jacket, 2012); *A Burning Question* (documentary film, 2012); *The Evolution of Everything* by Mark Sumner (book jacket, 2010); *Storm World* by Chris Mooney (book jacket, 2008); *Climate Change: What it Means for Us, Our Children, and Our Grandchildren*, edited by Joseph Dimento and Pamela Doughman (book jacket, 2007)
- Press Conferences: American Geophysical Union (5/30/2002); European Geophysical Union (4/23/09); National Science Foundation (8/11/09); Resource Media (11/24/09); American Geophysical Union (12/17/09); National Wildlife Federation (8/25/10); PennEnvironment (9/8/10); Prism Public Affairs (11/18/10); European Geophysical Union (4/26/12)
- Guest contributor to: *The Weather Channel's* climate site "One Degree" (since 9/06); *Seed Magazine* (May 21, 2007; "Play By the Rules, But Be Clever")
- Co-founder and contributor, climate science website, "*RealClimate.org*" (founded 12/04)
- Scientific Advisor for *Polar Bears International*, 2010-
- Science Advisory Board Member, *Climate Change Communication Network*, 2010-
- Science advisor for Climate Communication, 2011-
- Advisory Board, *OurEarth.org*, 2008-
- Science Advisory Council, *ISky*, 2008-
- Content Committee, *Climate Solutions Project*, Bowman Group, 2007-
- Advisory Committee, "CLUES" (museum/community partnership of the *Franklin Institute Science Museum*, Phila. PA), 2009-
- Advisor to numerous policy makers, public policy experts, governmental and non-governmental organizations (1999-)

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