

WENDY S. PARKER

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Education

University of Pittsburgh

Ph.D. History and Philosophy of Science, 2003

M.A. Philosophy, 2002

University of Washington, Seattle

Graduate Program, Department of Atmospheric Sciences, 1998-99 (on leave from Pittsburgh)

Northern Illinois University

B.A. Philosophy (with university honors), 1997

B.S. Meteorology (with university honors), 1997

Areas of Specialization and Competence

AOS: Philosophy of Science, Science and Public Policy

AOC: Logic, Environmental Philosophy, Ethics

Postdoctoral Employment

Assistant Professor, Department of Philosophy, Ohio University, 2006-present

Postdoctoral Research Fellow, Science Studies Program, University of California, San Diego, 2005-06.

Postdoctoral Fellow, Center for Philosophy and History of Science, Boston University, 2004-05.

Congressional Science Fellow, American Meteorological Society/University Corporation for Atmospheric Research (AMS/UCAR), U.S. Senate Environment and Public Works Committee, 2003-04.

Selected Grants, Fellowships and Awards

National Science Foundation Grant #0824287 (Ensemble Climate Prediction, \$124,136), 2008-2010

Ohio University Research Challenge Grant, 2008-2009

University of Pittsburgh Andrew Mellon Fellowship, 2002-03

National Science Foundation Graduate Research Fellowship, 1997-2000

Northern Illinois University (NIU) Dean's Award—Philosophy, 1997

NIU Lincoln Laureate Award (top university senior), 1997

NIU Presidential Honors Science Scholarship, 1995-97

National Science Foundation National Science Scholar, 1993-96

Publications

- Parker, W.S. (accepted) “Whose Probabilities? Predicting Climate Change with Ensembles of Models”, *Proceedings of the Philosophy of Science Association*.
- Parker, W.S. (accepted) “Comparative Process Tracing and Climate Change Fingerprints”, *Proceedings of the Philosophy of Science Association*.
- Parker, W.S. (2009) “Confirmation and Adequacy-for-Purpose in Climate Modeling”, *Proceedings of the Joint Sessions, Aristotelian Society Supp. Volume 83(1)*: 233-249.
- Parker, W.S. (2009) “Does Matter Really Matter? Computer Simulations, Experiments, and Materiality”, *Synthese* 169(3) 483-496.
- Parker, W.S. (2009) “Distinguishing Real Results from Instrumental Artifacts: The Case of the Missing Rain”, in G. Hon, J. Schickore, and F. Steinle (Eds.), *Going Amiss in Experimental Research* (Boston Studies in the Philosophy of Science, Vol. 267).
- Parker, W.S. (2008) “Franklin, Holmes and the Epistemology of Computer Simulation”, *International Studies in the Philosophy of Science* 22(2): 165-183.
- Parker, W.S. (2008) “Computer Simulation through an Error-Statistical Lens”, *Synthese* 163(3): 371-384.
- Parker, W.S. (2006) “Understanding Pluralism in Climate Modeling”, *Foundations of Science* 11(4): 349-368.
- Yuter, S.E. and W.S. Parker (2001) “Rain Measurement on Ship Revisited”, *Journal of Applied Meteorology* 40(6): 1003-1018.

Papers in preparation by invitation or under review

- Parker, W.S. (under review) “What does it mean when climate models agree? Examining the significance of robust predictions”.
- Parker, W.S. (in preparation) “Predicting Weather and Climate: Uncertainty, Ensembles and Probability”, by invitation for special issue of *Studies in History and Philosophy of Modern Physics*.

Selected Talks & Presentations

- “Simulation, Measurement & Reanalysis Datasets”
European Philosophy of Science Association meeting. Amsterdam, The Netherlands. October 2009.
- “Confirmation and Adequacy-for-Purpose in Climate Modeling”
Joint Sessions of the Aristotelian Society and Mind Association. Norwich, UK. July 2009.
- “Models, Metrics and the Prediction of Climate Change”
Models & Simulation 3. Charlottesville, VA. March 2009.
- “Comparative Process Tracing and Climate Change ‘Fingerprints’”
Philosophy of Science Association (PSA) Biennial Meeting. Pittsburgh, PA. November 2008.
- “Ethics & Policy-Relevant Science”
American Meteorological Society Summer Policy Colloquium. Washington, DC. June 2008.
- “Ensembles, Robustness and Adequacy”
Distinguished Speaker Series, The Committee on History and Philosophy of Science. University of Colorado, Boulder. January 2008.

- “How to Think About Models and Their Evaluation”
Confirmation, Induction and Science. London School of Economics. London, UK. March 2007.
- “Communicating Climate Science: Moral Responsibility in Theory and Practice”
American Meteorological Society Summer Policy Colloquium. Washington, DC. June 2006.
- “Do Climate Experts Have Special Moral Responsibilities?”
Institute for Applied and Professional Ethics. Ohio University. March 2006.
- “Pluralism in Climate Modeling: From Scientific Uncertainty to Science for Policy”
Philosophy Department Colloquium. University of California, Santa Cruz. January 2006.
Philosophy Department Colloquium. Ohio University. January 2006.
Philosophy Department Colloquium. University of Utah. January 2006.
- “Scientific Expertise in the Public Policy Process”
Boston Colloquium for Philosophy of Science. Boston University. May 2005.
- “A Philosophical Look at Computer Simulation Modeling”
Climate Seminar Series. Massachusetts Institute of Technology. March 2005.
- “What’s So Troubling about Computer Experiments?”
Philosophy Department Colloquium, University of Minnesota. February 2004.
- “Why Computer Simulation Experiments are Not So Different from Material Experiments”
MEPHISTOS Graduate Student Conference. Madison, Wisconsin. March 2003.
- “The Early History of the Height-Catch Problem in Meteorology”
Joint Atlantic Seminar in the History of the Physical Sciences. Pittsburgh. September 2000.

Upcoming Talks & Presentations

- “What does it mean when climate models agree? Examining the significance of robust predictions”
History and Philosophy of Science colloquium, University of Toronto. November 2009.
Philosophy Department Colloquium, University of Waterloo. November 2009
- “Confirmation and Adequacy-for-Purpose in Climate Modeling”
American Geophysical Union annual meeting. San Francisco, CA. December 2009.
- “Models, Adequacy & Scientific Knowledge”
Henle Symposium on Experimental and Theoretical Knowledge. St.Louis, Missouri. March 2010.
- “Understanding Weather and Climate: The Roles of Simple and Complex Models”
Understanding and the Aims of Science. Leiden, The Netherlands. May 2010.

Selected Courses Taught

- Climate Change: Science, Ethics, Policy (undergraduate/graduate seminar)
- Models and Simulation (undergraduate/graduate seminar)
- Models and Prediction (graduate seminar, co-taught)
- Philosophy of Social Science (undergraduate/graduate seminar)
- Philosophy Forum (graduate seminar examining van Fraassen’s *Scientific Representation*)
- Introduction to Philosophy of Science
- Introduction to Symbolic Logic
- Problem Solving: How Science Works
- Environmental Ethics
- Introduction to Ethics

Professional Service

Member: National Science Foundation (NSF) Grant Review Panel, 2009-present
President's Advisory Council on Sustainability Planning, Ohio University, 2009-present
Dean's Advisory Council, Honors Tutorial College, Ohio University, 2009-present
Environmental Protection Agency (EPA) Grant Review Panel, 2007
Environmental Studies Advisory Board, Ohio University, 2007-present

Referee: *Philosophy of Science*, 2002, 2009
Synthese, 2006, 2007, 2008
International Studies in the Philosophy of Science, 2007
Climatic Change, 2007
Bulletin of the American Meteorological Society, 2005, 2006, 2007
Ethics, Place & Environment, 2008
Science Studies, 2009
Social Problems, 2006
BioScience, 2004
Topics in Contemporary Philosophy, 2009

References

Available upon request.