
Clark A. Miller

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Education:

1996 Ph.D., Electrical Engineering, Cornell University.
1990 B.S., Electrical Engineering, University of Illinois.

Dissertation: *On Gravity Waves and the Electrodynamics of the Mid-Latitude Ionosphere*. 1996.
Cornell University.

Academic Positions:

Current: Associate Director, Consortium for Science, Policy & Outcomes, Arizona State University (2008-)

- Lincoln Fellow for Ethics in Science and Technology Studies, Lincoln Center for Applied Ethics (2012-)
- Policy Lead, Alliance for Person-Centered Technologies IGERT (2012-)
- Senior Sustainability Scientist, Global Institute of Sustainability (2011-)
- Energy Policy Lead, Lightworks (2010-)
- Director, Master of Science & Technology Policy Program (2009-)
- Chair, PhD in Human and Social Dimensions of Science and Technology (2007-)
- Associate Professor, School of Politics and Global Studies (2006-)

2013, Summer Visiting Professor, Helmholtz Zentrum für Umweltforschung (Helmholtz Center for Environmental Studies), Leipzig.

2013, Spring Co-Director, National Institute for Energy, Ethics, and Society

2007-2012 Associate Director, Center for Nanotechnology in Society, Arizona State University.

2012, Summer Visiting Professor, Zukunfts Forschung (Future Studies), Institut für Politische Forschung (Institute for Political Science), RWTH Aachen University.

2006 Associate Professor, Robert M. La Follette School of Public Affairs, Robert and Jean Holtz Center for Science & Technology Studies, and the Gaylord Nelson Institute for Environmental Studies, University of Wisconsin-Madison.

2005-2006 Senior Fellow, Center for World Affairs and the Global Economy, University of Wisconsin-Madison.

2001-2006 Assistant Professor, Robert M. La Follette School of Public Affairs, Robert and Jean Holtz Center for Science & Technology Studies, and the Gaylord Nelson Institute for Environmental Studies, University of Wisconsin-Madison.

1999-2001 Assistant Professor, Department of Political Science and International Institute for Theoretical and Applied Physics, Iowa State University.

1997, Spring Visiting Scholar, International Institute for Applied Systems Analysis, Vienna, Austria.

1995-1999 Postdoctoral Fellow, Belfer Center for Science and International Affairs, John F. Kennedy School of Government, Harvard University.

1995-1996 Postdoctoral Associate, Department of Science and Technology Studies, Cornell University.

Publications:

- Clark A. Miller, Jason O'Leary, Elisabeth Graffy, Ellen Stechel, Gary Dirks, "Humanist Narratives of Energy: Engaging Communities in Systems Futures," *Futures*, revise and resubmit.
- Clark A. Miller, Jathan Sadowski, Eric Kennedy, Miles Brundage, and Denise Baker, "Responsible Engineering of the Brain," *Issues in Science and Technology*, under review.
- Clark A. Miller, Jennifer Richter, and Jason O'Leary, "Designing Tomorrow's Socio-Energy Systems: Expanding Energy Policy and Governance for Energy Transitions," *Energy Research and Social Science*, under review.
- Clark A. Miller, "Globalizing Security: Science and the Transformation of Contemporary Political Imagination," in S. Jasanoff and S. Kim, eds., *Sociotechnical Imaginaries: Cross-National Comparisons*. Chicago: University of Chicago Press, in press.
- Joseph Herkert, Rachele Hollander, Clark A. Miller, Frazier Benya, Chad Monfreda, and Lynette Osborne, "Energy Ethics in Science and Engineering Education." In Steen Hylgaard Christensen et al., eds. *Engineering in Context* (Dordrecht: Springer), in press.
- Clark A. Miller, "Globalization and Discontent," *Social Epistemology*, in press. DOI: 10.1080/02691728.2014.922643.
- Clark A. Miller and Jennifer Richter, "Social Planning for Energy Transitions," *Current Sustainable/Renewable Energy Reports*. Published online, June 2014. DOI: 10.1007/s40518-014-0010-9.
- Clark A. Miller, "The Ethics of Energy Transitions," *Proceedings of the IEEE Symposium on Ethics in Engineering, Science, and Technology*, 2014. DOI: 978-1-4799-4992-2/14.
- Silke Beck, et al. "Towards A Reflexive Turn in the Governance of Global Environmental Expertise: The Cases of the IPCC and IPBES," *Gaia* 23(2): 80-87. 2014.
- Clark A. Miller, Alastair Iles, and Christopher Jones, "The Social Dimensions of Energy Transitions," *Science as Culture* 22(2): 135-148. 2013.
- Sean Hays, Michael Cobb, and Clark A. Miller "Public Attitudes Towards Nanotechnology-Enabled Cognitive Enhancement in the United States," in S. Hays, J. Robert, C. Miller, and I. Bennett, eds., *Nanotechnology, the Brain, and the Future: Yearbook of Nanotechnology in Society, Volume 3* (Springer: New York). 2013.
- Christina Nulle, Clark Miller, Alan Porter, and Harmeet Singh, "Applications of Nanotechnology to the Brain and Central Nervous System," in S. Hays, J. Robert, C. Miller, and I. Bennett, eds., *Nanotechnology, the Brain, and the Future: Yearbook of Nanotechnology in Society, Volume 3* (Springer: New York). 2013.
- Jason Scott Robert, Clark A. Miller, and Valerye Milleson, "Introduction: Ethics and Anticipatory Governance of Nano-Neurotechnological Convergence," in S. Hays, J. Robert, C. Miller, and I. Bennett, eds., *Nanotechnology, the Brain, and the Future: Yearbook of Nanotechnology in Society, Volume 3* (Springer: New York). 2013.

Grants Submitted:

- Christopher Jones, Sonja Klinsky, Clark A. Miller, and Michael Hanemann, "The Socio-Economics of Energy Transitions: Research and Training Initiative," submitted to NSF, \$500,000.
- Thomas Seager, Nathan Johnson, Mikhail Chester, Ying-Cheng Lai, and Clark A. Miller, "Collaborative Research: RIPS Type 2: Resilience Simulation for Water, Power & Road Networks," submitted to NSF, \$1.2 million.
- Clark A. Miller, Heather Ross, Barry Bozeman, Kelly Rawlings, Ben Hurlbut, Neal Woodbury, and Lee Seabrooke, "Deliberative Approaches to Evidence-Based Decision-Making in Personalized Medicine Based on Whole Systems Assessment Technologies," submitted to NIH, \$400,000.

Nancy Grimm et al., “SRN: Urban Resilience to Extremes Sustainability Research Network,” submitted to NSF, \$12 million.

Brian Korgel et al., “SRN: Energy Sustainability in the Urban Environment,” submitted to NSF, \$12 million.

Grants:

Mikhail Chester, Benjamin Ruddell, Thomas Seager, and Clark A. Miller, “WSC-Category 1: Advancing Infrastructure and Institutional Resilience to Climate Change for Coupled Water-Energy Systems,” NSF Program in Water Sustainability and Climate. Amount: \$600,000. 2014-2017.

Clark A. Miller and Daniel Higgins, “Knowledge Systems Analysis for Environmental Decision Making: Energy Development in the Four Corners Region of the American Southwest, 1960-2010,” NSF Program in Science and Technology Studies. Amount: \$120,000. 2012-2014.

Harvey Bryan, et al. “Arizona Sunshot Breakthrough Project,” Department of Energy. Amount: \$700,000. 2012-2014.

Christiana Honsburg et al., “Engineering Research Center (ERC): Quantum Energy and Sustainable Solar Technologies (QESST),” NSF ERC Program. Amount: \$18,500,000. 2011-2016.

Sethuraman Panchanathan et al., “IGERT: Person-Centered Technologies and Practices for Individuals with Disabilities,” NSF Integrative Graduate Education and Research Traineeship (IGERT) Program. Amount: \$3,000,000. 2011-2016.

Clark Miller, Joe Herkert, Rachele Hollander, “Collaborative Proposal: Energy Ethics in Science and Engineering Education,” NSF Program in Ethics Education in Science and Engineering Education. Total Award: \$300,000. 2011-2014.

Clark A. Miller, “Arizona’s Energy Future,” Arizona Town Hall. Amount: \$25,000. 2011.

Rachele Hollander, Clark Miller, Paul Fontaine, Juan Lucena, and Deborah Johnson, “CCEP: Partnership for Education on Climate Change, Engineered Systems, and Society,” NSF Program in Climate Change Education Partnerships. Total Award: \$1,000,000 (ASU portion: \$218,000). 2010-2014.

David Guston, Clark Miller, Deirdre Meldrum, Elizabeth Corley, Dietram Scheufele, and Jan Youtie, “NSEC: Center for Nanotechnology in Society,” NSF Program in Science, Technology, and Society. Total Award: \$6,500,000. 2010-2015.

Patrick Phelan, et al., “Science Master’s Program: Solar Energy Engineering & Commercialization,” National Science Foundation Professional Science Master’s Program. Total Award: \$700,000. 2010-2013.

Erik Fisher and David Guston. “Socio-Technical Integration Research,” NSF Program in Science, Technology, and Society. Initial Award: \$540,000. Supplement Award: \$107,789. 2009-2011.

Clark A. Miller, “AWI as a Boundary Organization,” Arizona Water Institute. Total Award: \$7,130. 2009.

Clark A. Miller, Daniel Sarewitz, and Andrew Light. “Science, Technology, and Sustainability: Building A Research Agenda.” NSF Program in Science, Technology, and Society. Total Award: \$65,000. Supplement Award: \$13,000. 2008-2010.