

**THADDEUS R. MILLER, Ph.D.**

Assistant Professor  
Urban Civic Ecology and Sustainable Communities  
Nohad A. Toulon School of Urban Studies and Planning  
College of Urban and Public Affairs  
Portland State University  
Portland, OR 97207  
[trm2@pdx.edu](mailto:trm2@pdx.edu)  
<http://web.pdx.edu/~trm2/>

---

**I. ACADEMIC EXPERTISE**

Environmental science, policy and politics; Science and technology studies; Knowledge politics and decision-making; Sustainability science; Transdisciplinary research and education

**II. EDUCATION**

**PhD**, Sustainability, 2011  
School of Sustainability  
Arizona State University, Tempe, AZ  
Dissertation: *Constructing Sustainability: A Study of Emerging Research Trajectories*

**MPA**, Environmental Science and Policy, 2004  
School of International and Public Affairs  
Columbia University, New York, NY

**BA**, Economics and Environmental Studies, 2003  
Bucknell University, Lewisburg, PA

**III. POSITIONS AND APPOINTMENTS**

Assistant Professor, Nohad A. Toulon School of Urban Studies and Planning, Portland State University, 2011-present.

Associated Faculty, Ecosystems Services in Urbanizing Regions (ESUR) IGERT Program, Portland State University, 2012-present.

Faculty Fellow, Institute for Sustainable Solutions, Portland State University, 2011-present.

**IV. FELLOWSHIPS, GRANTS AND AWARDS**

A. External

Co-Principal Investigator (with Dr. Elise Granek, PSU), "Conference for Sustainability IGERTs," National Science Foundation, 2012-2013 (\$95,095).

Co-Principal Investigator (with Dr. Amy Lubitow, PSU), “Contesting Sustainability: Bikes, Hipsters and Gentrification,” American Sociological Association, 2012-present (\$7,000).

Principal Investigator, Community Watershed Stewardship Program, Portland Bureau of Environmental Services, 2012-present (\$59,000/year, ongoing).

Senior Fellow in Urban Ecology, Integrative Graduate Education and Research Training (IGERT), National Science Foundation, 2008-2010.

Fellow in Urban Ecology, IGERT, National Science Foundation, 2006-2011 (\$130,000).

#### B. Internal

Center for Academic Excellence Faculty Fellow Grant, PSU, 2012.

Institute for Sustainable Solutions Travel Grant, PSU, 2012.

Provost’s Foundation Faculty Development Award, PSU, 2011.

PSU Professional Travel Grant, Office of Research and Strategic Partnerships, PSU, 2011.

Graduate Research Support Grant, Graduate and Professional Student Association, ASU, 2009-2010.

ASU Seed Grant, Graduates in Social and Environmental Research, IGERT in Urban Ecology, ASU, 2009-2011.

### V. **SCHOLARSHIP**

#### A. Publications (peer reviewed)

**Miller, Thaddeus R.** 2012. Constructing Sustainability Science: Emerging Perspectives and Research Trajectories. *Sustainability Science* DOI 10.1007/s11625-012-0180-6.

**Miller, Thaddeus R.**, Tisha A. Muñoz-Erickson, and Charles L. Redman. 2011. Transforming Knowledge for Sustainability: Fostering Adaptability in Academic Institutions. *International Journal for Sustainability in Higher Education* 12(2): 177-192.

**Miller, Thaddeus R.**, Ben A. Minter, and Leon C. Malan. 2011. The New Conservation Debate: A Descriptive and Normative Analysis of International Conservation. *Biological Conservation* 144: 948-957.

Minter, Ben A. and **Thaddeus R. Miller**. 2011. The New Conservation Debate: Ethical Foundations, Strategic Trade-offs, and Policy Opportunities. *Biological Conservation* 144.

**Miller, Thaddeus R.**, Timothy D. Baird, Caitlin M. Littlefield, Gary Kofinas, F. Stuart Chapin III and Charles L. Redman. 2008. Epistemological Pluralism: Reorganizing Interdisciplinary Research. *Ecology and Society* 13(2): 46. [online] URL: <http://www.ecologyandsociety.org/vol13/iss2/art46/>.

**Miller, Thaddeus R.**, Virginia A. Rauh, Sharon A. Glied, Dale Hattis, Andrew Rundle, Henry Andrews, Frederica Perera. 2006. The Economic Impact of Early Life Environmental Tobacco Smoke Exposure: Early Intervention for Developmental Delay. *Environmental Health Perspectives* 114(10): 1585-8.

B. Under review

**Miller, Thaddeus R.** and Mark Neff. De-Facto Science Policy in the Making: How Scientists Shape Science Policy and Why It Matters. *Minerva*.

**Miller, Thaddeus R.**, Arnim Wiek, Daniel Sarewitz, John Robinson, Derk Loorbach, and Lennart Olsson. The Future of Sustainability Science: Building a Transformative Research Agenda. *Proceedings of the National Academies of Science*.

C. In preparation

**Thaddeus R. Miller** and Amy Lubitow. Bikes and Race in North Portland: Discursive Tensions between Environmental Justice and Sustainability. *Environmental Justice*.

**Miller, Thaddeus R** and Michael M. Crow. Design Science for Sustainability.

D. Books and Monographs

**Miller, Thaddeus R.** In preparation. *Reconstructing Sustainability Science: Knowledge and Action for a Sustainable Future*. Under contract with Routledge, Earthscan. Science in Society Series (Steve Rayner, editor).

**Miller, Thaddeus R.** 2011. *Constructing Sustainability: A Study of Emerging Scientific Research Trajectories*. Dissertation. Arizona State University, Tempe, Arizona.

E. Reports and White Papers

**Miller, Thaddeus R.** and Amy Lubitow. Bikes, Race and Gentrification in Portland: Public Participation in the N. Williams Bike Lane Debate. In preparation for the Portland Bureau of Transportation and the N. Williams Traffic Safety Project Stakeholder Advisory Committee.

F. Edited journals

**Miller, Thaddeus R.** and Ben A. Minteer, editors. 2011. The New Conservation Debate. A special issue of *Biological Conservation* 144.

#### G. Presentations (selected)

**Miller, Thaddeus R.** and Amy Lubitow. Race and Bikes in Portland: Pedaling Controversy on N. Williams Avenue. CityWise: Breakfast with the Toulan School. November 14, 2012. Portland, OR.

**Miller, Thaddeus R.** Socio-Ecological Knowledge and Action. National Socio-Environmental Synthesis Workshop, October 10, 2011, Washington, DC.

**Miller, Thaddeus R.** Tensions in Sustainability Science. The Society for the Social Studies of Science Annual Meeting, November 2011, Cleveland, OH.

**Miller, Thaddeus R.** Constructing Sustainability. The Society for the Social Studies of Science Annual Meeting, 10/27-10/30/09, Washington, DC.

**Miller, Thaddeus R.** Constructing Sustainability: Evaluating the Emerging Ethical Frameworks of Science and Technology. 15<sup>th</sup> Annual International Sustainable Development Research Conference, 7/5-7/8/09, Utrecht, Netherlands.

**Miller, Thaddeus R.**, Timothy D. Baird, Caitlin M. Littlefield, Gary Kofinas, F. Stuart Chapin III and Charles L. Redman. Epistemological Pluralism: Reorganizing Interdisciplinary Research. Presented at Understanding Sustainability: Perspectives from the Humanities, 5/14-5/16/09, Portland State University, Portland, OR.

**Miller, Thaddeus R.** and Ben A. Minter. Parks, People and Posterity: Reconsidering the Ethical Implications of International Conservation. Society for Conservation Biology Annual Meeting, 7/14-7/15/08, Chattanooga, TN.

#### H. Invited Presentations and Participation

**Miller, Thaddeus R.** and Amy Lubitow. Pedaling Controversy on North Williams Avenue. Art as Social Practice Brown Bag Seminar. October 23, 2012. Portland State University.

**Miller, Thaddeus R.**, Session Chair. Sustainability Challenges Related to Urbanization in Phoenix, Arizona: Past, Present and Future. Global Land Project Open Science Meeting, 10/17-10/19/10, Tempe, AZ.

**Miller, Thaddeus R.** Integration and Adaptability: IGERT in Urban Ecology at Arizona State University. Enhancing Communication in Cross-Disciplinary Research, 9/30/10-10/2/10, Coeur d'Alene, ID.

*Invited Participant.* Transatlantic Workshop on Synthetic Biology, Sustainability Science and Science and Technology Studies. Woodrow Wilson International Center for Scholars, May 10-11, 2010, Washington, DC.

Redman, Charles L. (presenting author), **Thaddeus R. Miller** and Tischa Muñoz-Erickson. Fostering Epiphanies: Adaptive Cycles and Knowledge for Sustainability. Resilience: International Science and Policy Conference, 4/14-17/08, Stockholm, Sweden.

**Miller, Thaddeus R.** and Tischa Muñoz-Erickson. Adaptive Learning at SOS: Fostering Intellectual and Organizational Change for Sustainability. ASU School of Sustainability Colloquium Series, 11/16/07, Tempe, AZ.

#### I. Conference Posters (selected)

Hamilton, Rebecca, **Thaddeus R. Miller**, and Jennifer Devlin. The Community Watershed Stewardship Program: Partnering to Enhance Portland's Neighborhoods and Ecological Health. Poster presented at the Annual Meeting of the Ecological Society of America, 8/9/12, Portland, OR.

Muñoz-Erickson, Tischa and **Thaddeus R. Miller**. "Reorganizing Knowledge for Sustainability: Perspectives from the School of Sustainability." Poster presented at the Arthur M. Sackler Colloquia of the National Academy of Sciences – Linking Knowledge to Action for Sustainable Development, 4/3/08, Washington, DC.

Darby, Kate and **Thaddeus R. Miller**. "Arizona State University's IGERT in Urban Ecology: Integrating towards Sustainability." Invited poster presented at Conference for Sustainability IGERTs, 10/10-13/07, Fairbanks AK.

**Miller, Thaddeus R.** and Ben A. Minter. "An Ecological Ethics for a 'Crowded Planet': Assessing the Normative Foundations of an Emerging ESA Vision." Poster presented at the Annual Meeting of the Ecological Society of America, 8/6/07, San Jose, CA.

**Miller, Thaddeus R.** and Ben A. Minter. "Parks, People and Posterity: A Normative Analysis of International Conservation Projects." Poster presented at the International Symposium on Society and Resource Management, 6/18/07, Park City, UT.

#### J. Conference, Workshop and Symposia Organization

Workshop Chair and co-PI (with Lennart Olsson). Linking Socio-Environmental Knowledge to Socio-Environmental Change. National Socio-Environmental Synthesis Center (SESYNC) Workshop, October 10-11, 2012, Washington, DC.

Co-Chair. Conference for Sustainability IGERTs II, October 2009, ASU, Tempe, AZ.

Co-organizer (with Genevieve Maricle, Clark Miller and Arnim Wiek). Sustainability Panel Series, Society for the Social Studies of Science Annual Meeting, October 2009, Washington, DC.

Co-organizer (with Ben Minter). Symposia: Parks, People and Posterity: Reconsidering the Ethical Implications of International Conservation, Society for Conservation Biology Annual Meeting, July 14-15, 2008, Chattanooga, TN.

Co-organizer (with Tischa Muñoz-Erickson). Reorganizing Knowledge for Sustainability Workshop. Resilience: International Science and Policy Conference, 4/18/08, Stockholm Resilience Center, Stockholm, Sweden.

K. Non-peer reviewed articles, blogs, etc.

**Miller, Thaddeus R.** Sustainability in the Anthropocene: A Techno-Political Project (not a Scientific one). Resilience Science blog. April 2012.

<http://rs.resalliance.org/2012/04/05/sustainability-in-the-anthropocene-a-techno-political-project-not-a-scientific-one/>

**Miller, Thaddeus R.** Science, Ethics and Painless Pork. CSPO Soapbox. February 2010.

<http://www.cspo.org/soapbox/view/100224P7ZT/science-ethics-and-painless-pork/>

Muñoz-Erickson, Tischa and **Thaddeus R. Miller**. Students' Perspectives on Building Knowledge for Sustainability. International Society for Ecological Economics Newsletter, February 2009. (Re-published in *The Sustainability Review*, 2010, 1(1))

## **VI. TEACHING EXPERIENCE AND ADVISING**

### **A. Portland State University**

USP 510 Socio-Technical Change in the City, Fall 2012

USP 313U Urban Planning—Environmental Issues, Winter 2012

UNST 451 Capstone: Neighborhoods and Watersheds, Fall 2011

### **B. Arizona State University**

BIO/PHI 310 Environmental Ethics, Fall 2009

BIO 494/591/SOS 591 Environmental Ethics and Policy Goals, Spring 2009

### **C. Graduate Advising (all PSU)**

Erin Goodling, Urban Studies, PhD Advisor, 2011-present

Marissa Matsler, Urban Studies, PhD Committee Member

Paul Manson, Public Affairs, PhD Committee Member

## **VII. SERVICE**

### **A. University Service**

Honors Mentor, University Studies Honors Program, PSU, Fall 2012-present.

Organizer, First Fridays, Toulon School of Urban Studies and Planning, PSU, Fall 2012-present.

Chair, Undergraduate Executive Committee, Toulon School of Urban Studies and Planning, PSU, Spring 2011-present (member since Fall 2011).

Chair, Sustainable Development Minor, Toulon School of Urban Studies and Planning, PSU, Spring 2011-present.

Evaluation Committee, Sustainability Solutions Generator Projects, Institute for Sustainable Solutions, PSU, January 2012.

Speaker, Global Institute of Sustainability Board of Trustees Annual Meeting, ASU, February 2010.

Founding Member, Graduates in Integrative Environmental and Social Research (GISER), ASU.

Executive Committee, School of Sustainability, ASU, January 2007-December 2008.

Faculty Search Committee, School of Sustainability, ASU, Spring 2008.

Graduate Student Representative, School of Sustainability, ASU, January 2007-May 2008.

#### B. Professional Service

Committee on Awesome Ideas, IOBY, New York, NY, 2012-present.

Advisory Board Member, IGERT Resource Center Advisory Board, Technical Education Research Centers (TERC), Cambridge, MA, 2009-2010.

Article Referee,

- *Biological Conservation*
- *Conservation Biology*
- *Diversity*
- *Environment and Planning C: Government and Policy*
- *Nature Knowledge Network*
- *Journal of Cleaner Production*
- *Science and Engineering Ethics*
- *Sustainability Science*

#### **VIII. RESEARCH AND WORK EXPERIENCE (selected)**

Affiliate, Center for People and the Environment, Institute of the Environment, University of California, Los Angeles, September 2010 – June 2011.

Research Assistant, Advancing Conservation in a Social Context (ACSC), under Dr. Ann P. Kinzig, ASU, September 2007 – May 2008.

Research Associate, The Climate Trust, Portland, OR, October 2005-July 2006.

Policy Coordinator, Columbia Center for Children's Environmental Health, NY, NY, July 2004-May 2005.

## **IX. PROFESSIONAL MEMBERSHIP**

American Association for the Advancement of Science  
Association for Environmental Studies and Sciences  
Resilience Alliance Young Scholars (invited membership)  
Society for the Social Studies of Science

## **X. REFERENCES**

Available upon request.