

## **Paul Devin Hirsch**

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### **ACADEMIC EXPERIENCE**

- **Department of Public Administration, Maxwell School of Citizenship and Public Affairs, Syracuse University, Syracuse NY**  
Research Assistant Professor *and*  
Faculty Research Director for Environmental Conflicts and Collaboration  
2009 – Present

#### **Affiliations**

Center for Environmental Policy and Administration (CEPA)  
Program for the Advancement of Research on Conflicts and Collaboration (PARCC)

- **School of Public Policy, Georgia Institute of Technology, Atlanta, GA**  
Research Scientist, 2008
- **Department of Environmental Studies, Emory University, Atlanta, GA**  
Instructor, 2006-2007

### **FIELDS OF SPECIALIZATION**

Environmental Politics, Policy, and Ethics  
Conservation Ecology and Sustainability  
Science and Public Policy  
Collaborative Analysis and Problem-Solving

### **COURSES TAUGHT**

Environmental Politics; Environmental Policy; Energy, Resources & Climate Change;  
Perspectives on Sustainability

### **EDUCATION**

- **Georgia Institute of Technology**, Ph.D. in Public Policy, December 2008;  
*Dissertation: A Study of the Role of "Place" in Boundary Choices using Georgia's State-wide Water Planning Process as a Case; Dissertation Advisor: Bryan Norton*
- **University of Georgia Institute of Ecology**, M.S. in Conservation Ecology and Sustainable Development, May 2003
- **Cornell University**, B.S. in Biology and Society, May 1994

## OTHER TEACHING EXPERIENCE

- **University of Georgia Institute of Ecology**, Teaching Assistant and Laboratory Instructor, for Introduction to Ecology, 2001-2003
- **Organization for Tropical Studies, Duke University** / Costa Rica, Tree Canopy Research Instructor and Coordinator, 2000
- **New York City Department of Education**, High School Science Teacher and Staff Developer, 1998-2000

## RESEARCH PROJECTS AND FUNDING

- **MacArthur Foundation / Arizona State University Global Institute of Sustainability**, 2007 – 2010. *Title of Project*: "Advancing Conservation in a Social Context: Working in a World of Trade-offs." Total grant = \$4,000,000; Member of International, Interdisciplinary Research Team, *PI*: Thomas McShane.
- **NSF Program in Human Social Dynamics**, 2005 – 2008  
*Title of Grant*: "Ecological Boundary-Setting in Mental and Eco-physical Models." Total grant = \$625,000; Member of Georgia Tech Research Team, *PI*: Bryan Norton.
- **W. K. Kellogg Foundation and Center for Science and Policy Outcomes**, 2003-2005. *Title of Grant*: "Science, Policy and Social Inequality." Total grant = \$150,000. *PI*: Barry Bozeman.

## PUBLICATIONS (peer reviewed)

Inequity in the Distribution of Science and Technology Outcomes: A Conceptual Model. Barry Bozeman, Catherine Slade, and Paul Hirsch. *Policy Sciences* (in Press)

Acknowledging Trade-offs, Embracing Complexity: A Challenge for Conservation. Paul Hirsch, William Adams, Peter Brosius, Asim Zia, Nino Bariola, Juan Luis Dammert. *Conservation Biology* (2010) doi: 10.1111/j.1523-1739.2010.01608.x

Hard Choices: Making Trade-offs between Biodiversity Conservation and Human Well-being. Thomas McShane, Paul Hirsch, Tran Chi Trung, Alexander Songorwa, Ann Kinzig, Bruno Monteferri, David Mutekanga, Hoang Van Thang, Juan Luis Dammert, Manuel Pulgar-Vidal, Meredith Welch-Devine, Peter Brosius, Peter Coppolillo, Sheila O'Connor. *Biological Conservation* (2010) doi:10.1016/j.biocon.2010.04.038

Understanding Bureaucracy in Health Science Ethics: Toward a Better Institutional Review Board. Barry Bozeman, Catherine Slade, and Paul Hirsch. *American Journal of Public Health* 2009, 99 (9): 1549-1556

Science Ethics as a Bureaucratic Problem: IRBs, Rules, and Failures of Control. Barry Bozeman and Paul Hirsch. *Policy Sciences* (Special Issue on Integrating Knowledge and Practice to Advance Human Dignity) 2005, 38 (4): 269-291

### ***Publications Under Review***

Thinking like a Planet: Metaphor, Cognition and Politics in the Adaptation of Virtue. Paul Hirsch and Bryan Norton, in *Virtues of the Future: Climate Change, Restoration, and the Challenge of Adapting Humanity*, edited by Allen Thompson and Jeremy Bendik-Keymer. MIT Press (Accepted by Book Editors – Book is Currently under Contract Negotiation) (\*see [http://www.huffingtonpost.com/tom-morris/interview-with-a-philosop\\_b\\_580030.html](http://www.huffingtonpost.com/tom-morris/interview-with-a-philosop_b_580030.html) for an interview with book editors)

A Method for Characterizing the Plurality of Conceptual Boundaries under Conditions of Complexity: the Case of Water Planning in Georgia (Prepared and submitted for a book project titled "Scale Matters: Who we are, Where we are, and Why we care," to be edited by Asim Zia and Bryan Norton).

Eliciting Inter-Temporal Value Trade-Offs: A Deliberative Multi-Criteria Analysis of Vietnam's Bai Tu Long National Park Management Scenarios (co-authored with colleagues on "Advancing Conservation in a Social Context" Initiative; Submitted to Journal of Environmental Management)

Eliciting Value Trade-Offs at Multiple Spatial Scales: An Application of Deliberative Multi-Criteria Decision Analysis, Ruaha National Park Tanzania (co-authored with colleagues on "Advancing Conservation in a Social Context" Initiative; Submitted to Ecology & Society)

### ***Publications In Preparation***

- Making Space for Environmental Problem Solving: Conceptual and Managerial Boundaries in Georgia's State Water Planning Process
- Modes of Rationality in Collaborative Problem-Solving
- The Virtue and Challenge of Adaptive Governance
- Conservation in a Complex World: Towards an Integrative Framework (with Peter Brosius and Asim Zia)
- A Reflective Heuristic for Collaborative Problem-solving Under Conditions of Complexity (with Zachary Anderson, Tran Chi Trung, and Luke Preece)
- Integrating Subjectivist and Objectivist Theories of Spatial Concern in Environmental Planning (with Asim Zia, Sarah Metcalf, Bryan Norton, and Bruce Hannon)
- Transformation of Scale in Chesapeake Bay Pollution Management (with Asim Zia)

## **RESEARCH REPORTS, WHITE PAPERS, and ADDITIONAL PUBLICATIONS**

Interdisciplinary Collaboration: Cognitive Conditions and Tools. Michael Hoffmann, Nancy Nersessian, Jan Schmidt, Michael Decker, Paul Hirsch. White Paper prepared for *National Science Foundation: Future Research in the Social, Behavioral & Economic Sciences*, 2010

A Reflective Heuristic for Context Sensitive Selection of Tools and Methods for Trade-off Analysis. Paul Hirsch, Zachary Anderson, and Sheila O'Connor. Report prepared for the *Center for International Forestry Research*, Bogor, Indonesia, 2010

Tools, Methods and Approaches for Working in a World of Trade-offs: Interviews with Conservation Program Leaders and Review of CIFOR Case Narratives. Energia Naranjo-Rivera, Sheila O'Connor, and Paul Hirsch. Report prepared for the *Center for International Forestry Research*, Bogor, Indonesia, 2010.

The Trade-offs of REDD. Letter to the Editor in *World Conservation Magazine*, July 6, 2010. [http://www.iucn.org/knowledge/publications\\_doc/world\\_conservation/?5612](http://www.iucn.org/knowledge/publications_doc/world_conservation/?5612)

## **PRESENTATIONS**

### ***Academic Conferences***

"Negotiating Conservation and Human Well-Being: Tools, Methods, and Approaches for Working in a World of Trade-Offs." Zachary Anderson and Paul Hirsch. 109<sup>th</sup> *Annual Meeting of the American Anthropological Association*, November 2010. New Orleans, LA

"An Ambit-Base for Sense of Place: Where We Care?" Asim Zia, Sara Metcalf, Bryan Norton, Paul Hirsch, and Bruce Hannon. *American Collegiate Schools of Planning (ACSP) Annual Conference*, October 2010, Minneapolis MN

"A Role for Philosophy in Disentangling Interdisciplinary Conversation" (invited speaker). *Workshop on Philosophy of /as Interdisciplinarity*, September 2010, Hamburg, Germany

"Science in Situ: Doing Science in Contexts Characterized by Political Complexity & Social Inequality." Paul Hirsch and Helmut Hirsch. *Consortium for Science, Policy, and Outcomes Conference on the Rightful Place of Science*, May 2010, Tempe, AZ

"From Interdisciplinary to Integrative: Reflections from the field." *Program of International Workshop on the Philosophy of Interdisciplinarity*, September 2009, Atlanta, GA

"Balance, Harmony, Power: Evaluating Trade-offs in Resource Conservation, Conversion, and Extraction" (Organized symposium and presented paper). *Society for Conservation Biology*, July 2009, Beijing, China

"Learning to Think Like a Planet." Bryan Norton and Paul Hirsch (featured presenters). *Human Flourishing and Restoration in the Age of Climate Change*, September 2008, Clemson University, South Carolina

"Fair Trade-offs: A Scalar Approach." Bryan Norton and Paul Hirsch. *Society for Conservation Biology*, 2008, Chattanooga, Tennessee

"Defining Policy Boundaries for Spatially Complex Environmental Problems: the Case of Regional Water Planning in Georgia." Association of American Geographers Conference, 2007, San Francisco, CA

"Pitfalls and Possibilities of Scientific Research with Vulnerable Populations." Paul Hirsch and Barry Bozeman. *Workshop on Science, Policy & Social Inequality*, 2005, Tempe, AZ

"Science, Politics and Values in Defining Georgia's Water Planning Boundaries." *American Society for Environmental History Conference*, 2005, St. Paul, MN

"Science and Institutionalized Ethics." Paul Hirsch and Barry Bozeman. *European Association for the Study of Science and Technology*, 2004, Paris, France

"Science, Technology and the Distribution of Outcomes." Paul Hirsch and Barry Bozeman. *Society for the Social Studies of Science*, 2003, Atlanta GA

### ***Presentations at International Proceedings and Organizations***

"Tradeoffs between conservation and development in Vietnam." Zachary Anderson and Paul Hirsch. Presented as part of the 'Landscape Approaches to Conservation and Development – Guidelines and Recommendations Built on a Combination of Scientific Knowledge and Multiple Field Experiences.' Side Event at the *Convention on Biological Diversity Tenth meeting of the Conference of the Parties (CBD COP 10)*, October 2010, Nagoya, Japan.

"Tools, Methods and Approaches for Articulating Trade-offs in Conservation and Development." Zachary Anderson and Paul Hirsch. *Association for Tropical Biology and Conservation Conference*, July 2010, Denpasar, Bali, Indonesia

"Making Space for Environmental Problem Solving." *Diversitas: International Programme of Biodiversity Science*, October 2009, Capetown South Africa

"Trade-offs in Conservation and Development: Towards an Integrative Approach" was presented at the following venues between 2008 and 2010:

- Cambridge University Department of Geography, England
- Wageningen University Technology and Agrarian Development Group, Netherlands
- Sokoine University of Agriculture Department of Wildlife Management, Tanzania
- International Union for the Conservation of Nature, Gland, Switzerland
- World Wildlife Fund International Headquarters, Gland, Switzerland
- Society for Conservation Biology, Beijing, China
- Diversitas International Program of Biodiversity Science, Capetown, South Africa
- Peruvian Society for Environmental Law, Lima, Peru
- Center for Resources and Environmental Studies, Hanoi, Vietnam
- 2008 World Conservation Congress, Barcelona, Spain

## **CONSULTING AND COMMUNITY ENGAGEMENT (SELECTED)**

### **Work with Global Conservation Organizations**

*Collaboration/Consultation with international conservation NGOs to apply conceptual frameworks developed in academic work towards the improvement of practice through governance, program design, and reporting & evaluation.*

- **Center for International Forestry Research, Indonesia**  
Ongoing collaborative research with organization staff as well as fieldwork in and around protected areas of international significance. The focus of the work is to inform the appropriate and context-sensitive selection of tools, methods, and approaches for analyzing/intervening in scenarios involving conflicts and trade-offs between conservation and economic development/poverty alleviation.

### **Multi-Stakeholder Facilitation and Collaborative Problem-Solving**

*Develop and facilitate deliberative decision processes for improving the understanding of tensions between conservation, development, and poverty alleviation. Workshops incorporate dialog and multi-criteria methods as well as critical reflection, and have been conducted on-site in collaboration with the following organizations:*

- **Department of Wildlife Management, Sokoine University, Tanzania**
- **Peruvian Society for Environmental Law, Peru**
- **Center for Natural Resources and Environmental Studies, Vietnam**

### **Integrative Curriculum Development**

*Provide conceptual frameworks and ongoing training and support for the development of cross-disciplinary curricula. Institutions having implemented integrative curricula include:*

- **University of Georgia Center for Integrative Conservation, Athens GA**  
Ph.D. in Integrative Conservation
- **Paidea Middle School, Atlanta GA**  
Interdisciplinary Climate Change Curriculum

## **SELECTED AWARDS AND HONORS**

- Presidential Fellowship, Georgia Institute of Technology, 2002 – 2005.
- Ivan Allen School of Public Policy William J. Read Award for Outstanding Graduate Student, 2005
- University of Georgia Institute of Ecology Solitary Glove Service Award, 2002
- University-Wide Assistantship, University of Georgia, 2000-2002