

MARION DUMAS

PERSONAL INFORMATION

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EDUCATION

2009-present Columbia University

PhD

PhD Candidate in Sustainable Development · School: International and Public Affairs

Dissertation: *The Role of Judicial Institutions in Environmental Governance*
Committee: Michael Ting, Johannes Urpelainen, Robert Bates.

Many environmental decisions in the U.S. happen in the courts, where diverse interest groups iteratively renegotiate the meaning of laws to advance their conception of the public interest. So too for other areas of policy and for an increasing number of new and old democracies worldwide. In three papers, the dissertation explores the interaction between legal and political institutions in the political economy of the environment. It employs game theory and network analysis to explore how the interaction between courts, interest groups and political institutions affect political compromise, the dynamics of laws and collective learning.

2013-2015 Mellon Interdisciplinary Fellows Program

Mellon Fellow

Interdisciplinary Center for Innovative Theory and Empirics

2011-2012 Harvard University

Exchange Scholar

Department of Government · School: GSAS

2007-2009 ETH Zurich

Masters of Science

Major in Ecology and Evolution

Minor in Human-Environmental Systems

Thesis: Developing a model and database for assessing food production systems' sensitivity to phosphate rock shortages at the world scale

2002-2006 Massachusetts Institute of Technology

Bachelor of Science

Major: Environmental Sciences, Department of Earth, Atmospheric and Planetary Sciences

Minor: Applied Mathematics

WORKING PAPERS

Dumas, M., 2014. *Job Market Paper* Taking the Law to Court: Citizen Suits and the Legislative Process.

Dumas, M., Rising, J. and Urpelainen, J., 2014. *Under Review* Path Dependence, Political Competition, and Renewable Energy Policy: A Dynamic Model.

Dumas, M. and J. Urpelainen, 2014. *Under Review* The Institutional Foundations of Sustainability: What Can We (Not) Learn from Political Economy?

Dumas, M., J. Castner, and P. Gocev, 2012. *Working Paper* Causal Inference with Spatially Disaggregated Data: Some Potentials and Limits.

WORK IN PROGRESS

Dumas, M., 2015, expected. The Political Dynamics of Legal Rules: a Network Analysis Approach

Dumas, M., 2015, expected. Legitimacy and Long-term Governance

PUBLICATIONS

Dumas, M., Frossard, E. and R. Scholz, 2011. Modeling Biogeochemical Processes of Phosphorus for Global Food Supply, *Chemosphere* Vol 84(6): 798-805.

Burt, D., M. Dumas, N. Spring and D. Vaccari, 2012. Global Phosphorus: Geological Sources and Demand-driven Production, In Wyant, K.A. et al., Eds., *Phosphorus, Food, and Our Future*, New York: Oxford University Press.

Dumas, M. and Y. Blumer, 2008. *Technical Report* Participatory Decision Making Processes in Radioactive Waste Management, *Nucleo8*

GRANTS AND AWARDS

2013 · Mellon Fellowship

2010 · Sasakawa Young Leaders Fellowship Fund Grant for summer research

2010 · ETH Medal for Excellence in Research

2009-2014 · Columbia Graduate Fellowship

2009-2012 · Stanford Graduate Fellowship (declined)

2006 · MIT Goetze Prize for Undergraduate Research

TEACHING EXPERIENCE

<i>Co-Instructor</i>	2015	Complexity Science Instructors: Prof. Upmanu LALL, James RISING, Marion DUMAS
<i>Teaching Assistant</i>	2014	Economics of Energy Instructors: Prof. Gernot WAGNER
<i>Teaching Assistant</i>	2012-2014	Political Economy of Development Instructors: Prof. Christopher BLATTMAN and Prof. Victoria MURILLO
<i>Teaching Assistant</i>	2011	Environmental Science for Sustainable Development Instructor: Prof. John MUTTER

RESEARCH EXPERIENCE AND ACADEMIC SERVICE

<i>Research Assistant</i>	2012	Statistical and game-theoretic modeling Prof. Macartan HUMPHREYS
<i>Visiting Researcher</i>	2011	Research Collaboration Chinese Academy of Sciences, Nanjing
<i>Seminar Organizer</i>	2013-present	Complexity Science Graduate Seminar

OTHER WORK EXPERIENCE

<i>Consultant</i>	2006-2007	· Utopies, Strategies et Developpement Durable, Paris, France Description: Co-lead of the sustainable construction working group
<i>Environmental Engineer Intern</i>	2003	· Consorzio Venezia Nuova, Venice, Italy Description: Computational Modeling of the Venice Lagoon's Dynamics

OTHER INFORMATION

<i>Workshops and Summer Schools</i>	June 2013	· Santa Fe Institute Advanced Graduate Workshop in Computational Social Science Core Faculty: John MILLER · Scott PAGE
	December 2012	· Workshop in Institutional Analysis Coase Institute Core Faculty: Lee BENHAM · John NYE · Gary LIBECAP
	September 2010	· Oxford Poverty & Human Development Initiative (Amman, Jordan) Capability and Multidimensional Poverty Graduate Summer School Core Faculty: Sabina ALKIRE
<i>Languages</i>		FRENCH (NATIVE), GERMAN (QUASI-FLUENT)
<i>Computer Languages</i>		PYTHON, MATLAB, R, MATHEMATICA, STATA, BASH SCRIPTING, GIS

December 1, 2014