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DAVID ANTHOFF
Department of Agricultural & Resource Economics
University of California, Berkeley
Ciriacy-Wantrup Postdoctoral Fellow

October 2011

RESEARCH INTERESTS

Environmental and Resource Economics, Integrated Assessment, Climate Economics.

CURRENT POSITION

Postdoctoral Fellow, Department of Agricultural & Resource Economics, University of California, Berkeley, September 2010-present.

EDUCATION

Ph.D. (Economics), 2009. International Max Planck Research School on Earth System Modelling and University of Hamburg, Germany.

Title: "Equity and Climate Change: Applications of FUND"; Committee: Prof. Dr. Richard S.J. Tol (advisor), Prof. Dr. Michael Funke, Prof. Dr. Elisabeth Allgoewer (chair).

M.Sc. (Environmental Change and Management), 2004. University of Oxford, United Kingdom.

M.Phil. (Philosophy, Logic and Philosophy of Science), 2003. Ludwig-Maximilians-Universität Munich, Germany.

Visiting Student (Philosophy), 2001-2002. University of Oxford, United Kingdom.

REFERENCES

Professor Dr. Maximilian Auffhammer
University of California, Berkeley (USA)
Phone: +1 (510) 463-1546
Email: auffhammer@berkeley.edu

Professor Dr. Robert W. Hahn
University of Oxford (UK)
Phone: +1 (202) 683-9002
Email: robert.hahn@smithschool.ox.ac.uk

Dr. Cameron Hepburn
London School of Economics (UK)
Phone: +44 (207) 106 1229
Email: C.J.Hepburn@lse.ac.uk

Professor Dr. Richard S.J. Tol
Economic and Social Research Institute (Ireland)
Phone: +353 (1) 8632120
Email: richard.tol@esri.ie

PEER REVIEWED PUBLICATIONS

"On International Equity Weights and National Decision Making on Climate Change," with Richard S.J. Tol, *Journal of Environmental Economics and Management*, 2010, 60(1): 14-20.

"Government Failure and Market Failure: On the Inefficiency of Environmental and Energy Policy," with Robert W. Hahn, *Oxford Review of Economic Policy*, 2010, 26(2): 197-224.

"International Climate Policy and Regional Welfare Weights," with Daiju Narita and Richard S.J. Tol, *Environmental Science & Policy*, 2010, 13(8): 713-720.

"The Economic Impact of Substantial Sea-Level Rise," with Robert J. Nicholls and Richard S.J. Tol, *Mitigation and Adaptation Strategies for Global Change*, 2010, 15(4): 321-335.

- “Economic Costs of Extratropical Storms Under Climate Change: An Application of FUND,” with Daiju Narita and Richard S.J. Tol, *Journal of Environmental Planning and Management*, 2010, 53(3): 371-384.
- “The Impact of Climate Change on the Balanced-Growth-Equivalent: An Application of FUND,” with Richard S.J. Tol, *Environmental and Resource Economics*, 2009, 43(3): 351-367.
- “Equity weighting and the marginal damage costs of climate change,” with Cameron Hepburn and Richard S.J. Tol, *Ecological Economics*, 2009, 68(3): 836-849.
- “Discounting for Climate Change,” with Richard S.J. Tol and Gary W. Yohe, *Economics: The Open-Access, Open-Assessment E-Journal*, 2009, 3(2009-24).
- “Damage Costs of Climate Change Through Intensification of Tropical Cyclone Activities: An Application of FUND,” with Daiju Narita and Richard S.J. Tol, *Climate Research*, 2009, 39(2): 87-97.
- “Risk Aversion, Time Preference, and the Social Cost of Carbon,” with Richard S.J. Tol and Gary W. Yohe, *Environmental Research Letters*, 2009, 4(024002).
- “Discounting and the social cost of carbon: a closer look at uncertainty,” with Jiehan Guo, Cameron Hepburn and Richard S.J. Tol, *Environmental Science & Policy*, 2006, 9(3): 205-216.

WORK IN PROGRESS

- “Optimal Global Dynamic Carbon Taxation,” **Jobmarket Paper**.
- “Checking the price tag on catastrophe: The social cost of carbon under non-linear climate response,” with Megan Ceronsky, Cameron Hepburn and Richard S.J. Tol, *ESRI Working Paper*, 2011, No 392. Revision submitted to *Climatic Change*.
- “Climate Policy under Fat-Tailed Risk: An Application of FUND,” with Richard S.J. Tol, *ESRI Working Paper*, 2010, No 348. Revision requested from *Annals of Operations Research*.
- “Regional and Sectoral Estimates of the Social Cost of Carbon: An Application of FUND,” with Steven Rose, Richard S.J. Tol and Stephanie Waldhoff, *ESRI Working Paper*, 2011, No 375. Revision requested from *Economics: The Open-Access, Open-Assessment E-Journal*.
- “The Uncertainty about the Social Cost of Carbon: A Decomposition Analysis Using FUND,” with Richard S.J. Tol, *ESRI Working Paper*, 2011, No 404. Submitted to *Climatic Change*.
- “The Marginal Damage Costs of Different Greenhouse Gases: An Application of FUND,” with Steven Rose, Richard S.J. Tol and Stephanie Waldhoff, *ESRI Working Paper*, 2011, No 380. Submitted to *Economics: The Open-Access, Open-Assessment E-Journal*.
- “The Time Evolution of the Social Cost of Carbon: An Application of FUND,” with Steven Rose, Richard S.J. Tol and Stephanie Waldhoff, *ESRI Working Paper*, 2011, No 405. Submitted to *Economics: The Open-Access, Open-Assessment E-Journal*.
- “Differential Evolution optimization for FUND,” with Klaus Keller, in preparation.
- “Climate module SNEAZY and FUND,” with Klaus Keller, in preparation.
- “Inequality and the Social Cost of Carbon,” with Johannes Emmerling, in preparation.
- “The US Social Cost of Carbon and Discounting,” with Chris Hope, Laurie Johnson and Antony Millner, in preparation.
- “Risk Premia and the Social Cost of Carbon: A decomposition analysis,” in preparation.

CHAPTERS IN BOOKS

- “Schelling’s Conjecture on Climate and Development: A Test,” with Richard S.J. Tol, in *Climate Change and Common Sense: Essays in Honor of Tom Schelling*, Robert W. Hahn and Alistair Ulph (eds.), Oxford University Press, forthcoming.
- “Methane Mitigation: Alternative Perspective,” in *Smart Solutions to Climate Change. Comparing Costs and Benefits*, Bjørn Lomborg (ed.), Cambridge University Press, Cambridge, 2010: 198-207.
- “Kommentar zu Hans-Werner Sinn,” with Richard S.J. Tol, in *Jahrbuch Ökologische Ökonomik 6: Diskurs Klimapolitik*, Joachim Weimann (ed.), Metropolis-Verlag, Marburg, 2009.

POPULAR WRITING

- “Thinking Through the Climate Change Challenge,” with Elizabeth Baldwin, Scott Barrett, Linda R. Cohen, Diane Coyle, Partha Dasgupta, Simon Dietz, David Frame, Robert W. Hahn, James Hammitt, Geoffrey Heal, Cameron Hepburn, Michael Hoel, Charles D. Kolstad, Andreas Lange, Robert Mendelsohn, Karine Nyborg, Ian Parry, Ken Richards, Robert Ritz, Thomas Schelling, Massimo Tavoni, Alistair Ulph, Herman Vollebergh and Anastasios Xepapadeas, *VoxEU.org*, 2011.
- “On international equity weights and national decision making on climate change,” with Richard S.J. Tol, *VoxEU.org* (also as *IVM Newsletter* and *ESRI Research Bulletin*), 2010.
- “Klimaschäden und Klimaverhandlungen,” with Janina Ketterer and Jana Lippelt, *ifo Schnelldienst*, 2009, 62(22): 52-54.

REPORTS AND OTHER PUBLICATIONS

- “Equity and Climate Change: Applications of FUND,” *Reports on Earth System Science*, Max Planck Institute for Meteorology, Hamburg, Germany, 2009, 74.
- “Marginal Damage from Greenhouse Gas Emissions,” Report for the *New Energy Externalities Development for Sustainability* project, 2007.
- “Global impacts of abrupt sea-level rise,” with Robert J. Nicholls and Richard S.J. Tol, Background paper for the *Stern Review*, 2006.
- “Social Cost of Carbon: A Closer Look at Uncertainty,” with Thomas E. Downing, Ruth Butterfield, Megan Ceronsky, Michael Grubb, Jiehan Guo, Cameron Hepburn, Chris Hope, Alistair Hunt, Ada Li, Anil Markandya, Scott Moss, Anthony Nyong, Richard S.J. Tol and Paul Watkiss, Department for Environment, Food and Rural Affairs (UK), London, 2005.
- “The Social Costs of Carbon Review – Methodological Approaches for Using SCC Estimates in Policy Assessment,” with Paul Watkiss, Thomas E. Downing, Cameron Hepburn, Chris Hope, Alistair Hunt and Richard S.J. Tol, Department for Environment, Food and Rural Affairs (UK), London, 2005.

STIPENDS AND AWARDS

- Ciriacy-Wantrup Postdoctoral Fellowship, University of California, Berkeley, 2010-2012.
- Doctoral Scholarship, International Max Planck Research School on Earth System Modelling, Hamburg, Germany, 2005-2009.
- First place in the national youth research competition “Jugend Forscht,” 1997.

RESEARCH EXPERIENCE

- External Consultant, United States Environmental Protection Agency, August 2007-present.
- Postdoctoral Research Associate, Economic and Social Research Institute, Dublin, Ireland, 2008-2010.

Visiting Research Fellow, Smith School of Enterprise and the Environment, University of Oxford, United Kingdom, September and October 2008.

External Consultant, New Energy Externalities Development for Sustainability, European Commission, 2007.

External Consultant, Stern Review, United Kingdom, 2006.

External consultant, Review of the Social Cost of Carbon, Department for Environment, Food and Rural Affairs, United Kingdom, 2004.

External consultant on various small policy projects for the National Round Table on the Environment and the Economy (Canada), Marbek Resource Consultants (Canada), Pew Center on Global Climate Change (US) and Natural Resources Defense Council (US).

STUDENTS

Mentoring: Wolfgang Habla (PhD student at Ludwig-Maximilians-Universität Munich, Germany), Janina Ketterer (PhD student at Ludwig-Maximilians-Universität Munich, Germany).

INDUSTRY EXPERIENCE

Consultant, dezem GmbH, Berlin, Germany, 2001-2003.

Freelance software developer, Akademie des Deutschen Buchhandels gemeinnützige GmbH, Munich, Germany, 2000-2003.

Intern, Society and Technology Research Group, DaimlerChrysler AG, Berlin, Germany, 2001.

Managing director and founder, Imagotech Systems GmbH, Munich, Germany, 1997-2003. Technology start-up specializing in medical software.

Software developer, Dipl. Ing. Rolf-Dieter Klein, 1994-1997.

OTHER

Affiliations: American Economic Association, American Political Science Association, Association of Environmental and Resource Economists.

Languages: English, German (native).

Program committee member: Association of Environmental and Resource Economists Summer Conference (2011), 18th Annual Conference of the European Association of Environmental and Resource Economists (2011).

Reviewer: Climate Change Economics, Energy Economics, Environmental and Resource Economics, Global Environmental Change, Journal of Environmental Economics and Management, Oxford Economic Papers and Scandinavian Journal of Economics.

Software skills: Programming (C#, C++, Java, Pascal, SQL, parallel & grid software, Matlab, Mathematica), large database systems, Office.

PRESENTATIONS AT CONFERENCES

Upcoming: Allied Social Science Associations Annual Meeting.

2011: International Energy Workshop; Association of Environmental and Resource Economists Summer Conference; EPA and DOE – Improving the Assessment and Valuation of Climate Change Impacts for Policy and Regulatory Analysis II.

2010: EPA and DOE – Improving the Assessment and Valuation of Climate Change Impacts for Policy and Regulatory Analysis I; 12th Occasional California Workshop on Environmental and Resource Economics; Climate Change and Common Sense: Workshop in Honor of Tom Schelling; Fourth

World Congress of Environmental and Resource Economists; Workshop on Climate Change and Distribution – ESOP; SURED – Monte Verità Conference on Sustainable Resource Use and Economic Dynamics.

2009: CESifo Area Conference on Energy & Climate Economics; Jahrestagung des Verein für Socialpolitik; CESifo Venice Summer Institute – Workshop on the Economics and Politics of Climate Change; 17th Annual Conference of the European Association of Environmental and Resource Economists; International Energy Workshop; Assessing the Benefits of Avoided Climate Change – Pew Center on Global Climate Change; The International Dimensions of Climate Policies.

2008: CESifo Venice Summer Institute – Workshop on Europe and Global Environmental Issues; 16th Annual Conference of the European Association of Environmental and Resource Economists; SURED – Monte Verità Conference on Sustainable Resource Use and Economic Dynamics; Ph.D. Workshop on International Climate Policy.

2007: New Energy Externalities Development and Sustainability; 15th Annual Conference of the European Association of Environmental and Resource Economists; Integrated Coastal Zone Management and Valuation of Socio-Economic Impacts.

INVITED PRESENTATIONS AT INSTITUTIONS

2011: University of California, Irvine; Energy Institute at Haas, University of California, Berkeley; Pennsylvania State University.

2010: Department of Agricultural & Resource Economics – University of California, Berkeley; CESifo Group Seminar – LMU Munich.

2009: Biozentrum – LMU Munich; University of Warwick.

2008: Economic and Social Research Institute – Dublin; Smith School of Enterprise and the Environment - University of Oxford; Fondazione Eni Enrico Mattei; Venice International University; Kiel Institute for the World Economy;

2007: University Passau; Bundesamt für Umwelt – Switzerland.