Mark Huberty

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EDUCATION

2007- **Ph.D. Program, Political Science**
University of California, Berkeley

M.A. granted May 2008
Advanced to Candidacy, May 2010
Expected: June 2013
Subfields: Comparative politics, European politics, Quantitative methodology

Dissertation: Energy systems transformation and the political economy of climate change

Research interests: political economy of energy and climate change; innovation and comparative advantage in industrial societies; applications of machine learning, data mining, and computational methods to comparative political economy.

2005-2007 **M.A. with Honors, European Studies and International Economics**
The Johns Hopkins University, School for Advanced International Studies (SAIS)

1996-2000 **B.S. with High Distinction and Honors, Chemistry**
Harvey Mudd College

GRANTS AND FELLOWSHIPS

Fulbright-Schuman Fellowship, European Union, 2010-2011
U.S. Environmental Protection Agency STAR Fellowship, 2010-2013
European Union Center of Excellence Grant, University of California, Berkeley, 2009
Institute for European Studies Fellowship, University of California, Berkeley, 2007-2008
Foreign Language and Area Studies Fellowship, German, University of California, Berkeley, 2007-2008

HONORS AND AWARDS

Peter H. Odegard Award, for an outstanding 3rd-year graduate student, Department of Political Science, University of California, Berkeley, Spring 2010
Distinguished Teaching Award, Department of Political Science, University of California, Berkeley, Fall 2009
C. Grove Haines Prize, Best paper in European Studies, The Johns Hopkins University, SAIS, 2006

TEACHING EXPERIENCE

2012 **PS191: The Political Economy of Energy Systems Transformation**
Co-instructor. This course examined the political, economic, and technological dimensions of emissions reduction in the energy system. Students studied the historic processes that led to the adoption of today's fossil fuel energy systems; the economic and political institutions that frame those systems; and the technical, economic, and political difficulties in changing them. Students also studied more radical solutions to the emissions problem, including geoengineering and green growth.

2010 **PS138G: Crisis and Crash**
Graduate teaching assistant. This course looked at modern economic crises – globalization, the financial crisis, and climate change – in light of theories of political economy. Topics covered included institutional determinants of economic development, national systems of political economy, globalization, technological change, and the rise of new economic giants in Asia and Latin America.

2009 **PS239T: Computational Tools for Political Science**
Primary instructor. Proposed, designed and taught the introductory graduate-level computational tools course, preparing students for the graduate statistical methods sequence. Topics covered included data structures, flow control, functions, parallel computation, and integration of statistical results with scholarly writing. Programs covered included R, LaTeX, Emacs, and Unix. Received the Departmental Distinguished Teaching Award for the highest student course evaluation scores that semester.

POSITIONS HELD

2010+ **Visiting Fellow, Bruegel**

2010 **Research Assistant, Professor Jasjeet Sekhon**
Project: GPU-accelerated algorithms for genetic matching

2008+ **Research Associate, Berkeley Roundtable on the International Economy**
Project: The political economy of climate change and energy systems transformation

2007 **Research Associate, A.T. Kearney**
Global Business Policy Council

2006-2007 **Research Assistant, Professor David Calleo**
The Johns Hopkins University, SAIS

2000-2005 **Consultant, Accenture Ltd.**

PUBLICATIONS

Peer-Reviewed Journal Publications
"Testing the ownership society: ownership and voting in Britain", *Electoral Studies* 30(4) December 2011.

"Shock and Change in the German Venture Capital Market, 1995-2005", *German Politics and Society* 24(3) Fall 2006.

Books
Mark Huberty and John Zysman, eds. *From Religion to Reality: Energy systems transformation and the politics of sustainable prosperity*. Under contract, Stanford University Press. Forthcoming 2013.

Book Chapters
"Energy systems transformation: state choices at the intersection of sustainability and growth", forthcoming in Dan Breznitz and John Zysman, eds, *Can Wealthy Nations Stay Rich?*. Oxford University Press.

"The Dissolution of Sectors: do politics and sectors still go together?", forthcoming in Dan Breznitz and John Zysman, eds, *Can Wealthy Nations Stay Rich?*. Oxford University Press.

Solicited and Policy Publications
John Zysman and Mark Huberty, "Religion and reality in the search for green growth", *Intereconomics* 47(3) 2012, pp140-146.

Georg Zachmann, Michael Holtermann, Jörg Radeke, Mimi Tam, Mark Huberty, Dmytro Naumenko, and Anta Ndoye Faye, *The great transformation: decarbonizing Europe's energy and transport systems*. Bruegel Blueprint 16, 2012.

Mark Huberty, Huan Gao, and Juliana Mandell, *Shaping the Green Growth Economy*. Literature review of the policy debates and analytic evidence for "green growth" arguments. Prepared for the Mandag Morgen Green Growth Leaders forum. Copyright March 31 2011.

John Zysman and Mark Huberty (2010) "An Energy Systems Transformation: Framing Research Choices for the Climate Challenge", *Research Policy* 38 (9), pp1027-1029.

Working Papers

"Voting with your tweet: forecasting elections with social media data". October 2011.

Mark Huberty and Georg Zachmann, "Green Exports and the Global Product Space: Prospects for EU Industrial Policy", Bruegel Working Paper 2011/07. May 2011.

"The demand for sea-coales in London: the Great Fire as a technology shock". May 2010.

CONFERENCE PRESENTATIONS

"The green economy and sustainable prosperity". Third China International Eco-City Forum and Expo. Binhai New Area, Tianjin, China. September 2012. By invitation.

"Sustaining sustainable energy policy", University of Oklahoma workshop on paths to sustainable energy futures in Europe, April 2012.

"Varieties of low-emissions innovation", 2012 International Studies Association Conference, Workshop on Climate Change and the Varieties of Capitalism. San Diego, CA.

"Energy systems transformation and European climate policy". 2012 Council for European Studies Annual Conference. Boston, MA.

"Voting with your tweet: forecasting election outcomes with social media data", 2011 Society for Political Methodology Conference Graduate Poster Session, Princeton University.

"Will energy efficiency drive green growth?", Atlantic 'Bloomsday' Energy Efficiency Conference, International Energy Agency. Paris, France, 16-17 June 2011.

"Shaping the Green Growth Economy", Keynote presentation, Mandag Morgen Green Growth Leaders Summit. Copenhagen, Denmark, 13 April 2011.

"Green Exports and the Global Product Space: Prospects for EU Industrial Policy", with Georg Zachmann.
International Energy Workshop, Stanford University, July 2011.
Bruegel Working Group on Green Growth, 28 March 2011.

"Governments, Markets, and Clean Growth: energy systems transformation for sustainable prosperity", with John Zysman. Informal Competitiveness Council for the Belgian Presidency of the European Union, September 2010.

SOFTWARE

2012 **`leghist`: Automated legislative history analysis for R**
Analysis of legislative history often requires laborious hand-matching to tie proposed amendments and their authors to content in a final bill. `leghist` uses natural language and statistical methods to automate this matching process, estimate match accuracy, cluster the components of legislation by topic, tabulate rates of acceptance and rejection across legislative actors, and visualize the resulting data. Tests on European Union legislation show that `leghist` attains accuracy rates of at least 80%, and higher accuracy rates on the most relevant components of legislation. Currently in limited alpha release. See https://github.com/markhuberty/leghist.git for more detail.

OTHER TECHNICAL EXPERIENCE

2010+ **Systems Administrator, Political Science Compute Cluster**
Designed, built, deployed, and maintained a 18-node parallel compute cluster for social science statistics research. As of May 2012, it had been used for over 1700 jobs ranging in duration from a few minutes to several months. See http://pscluster.berkeley.edu for more detail.

OTHER

Programming languages: R, *nix, Python, some C/C++, some CUDA
Foreign languages: German (Proficient, ACTFL "Advanced-Mid")