

**DANIEL RAIMI**

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**EDUCATION DUKE UNIVERSITY, Sanford School of Public Policy** Durham, NC

Master of Public Policy, May 2012

Master's project: "The potential social impacts of shale gas development in NC"

**WESLEYAN UNIVERSITY**

Middletown, CT

Bachelor of Arts, Departmental Honors in Music, December 2003

**EXPERIENCE**

2016-curr. **RESOURCES FOR THE FUTURE** Washington, D.C.

Senior Research Associate

- Research on a range of energy and environmental policy topics, including oil and gas regulation and taxation, electricity policy and markets, and climate policy.

2015-curr. **UNIV. MICHIGAN FORD SCHOOL OF PUBLIC POLICY** Ann Arbor, MI

Lecturer

- Teaching a 3-credit, 400-level course entitled *Oil and Gas Policy in the United States*. Policy and market issues for oil and gas production, transportation, and consumption.

2015-2016 **UNIVERSITY OF MICHIGAN ENERGY INSTITUTE** Ann Arbor, MI

Research specialist: Energy, Technology, Policy, and Economics

- Project manager for a university-wide project entitled *Beyond Carbon Neutral*, which identifies and promotes research to advance technologies and policies to reduce atmospheric greenhouse gas concentrations
- Original research into energy and environmental policy, including global carbon markets and the economic and social effects of carbon capture and sequestration

2012-2016 **DUKE UNIVERSITY ENERGY INITIATIVE** Durham, NC

Associate in Research

- Lead researcher and author on a multi-year project to examine the local government effects of increased oil and gas development in the United States
- Expertise on state oil and gas tax policy in all major oil- and gas-producing states
- Co-authored a series of papers on international carbon market design
- Presentations on shale gas regulation and impacts made to policymakers, industry groups, university groups
- Other detailed work on shale oil and gas policy and economics; federal energy subsidies; energy projections; energy trade geopolitics

2013-2015 **VANDERBILT UNIV. INST. FOR ENERGY AND ENV.** Nashville, TN

Research consultant (part time)

- Analysis for articles and forthcoming book with Prof. Michael Vandenberg
- Focus on projected energy and emissions scenarios based on EIA, IEA, IPCC

2011-2012 **NC DEPT. OF ENVIRONMENT & NATURAL RESOURCES** Raleigh, NC

Intern, Legislative Affairs (Summer 2011), Consultant (2011-2012)

- Wrote portion of NC State report on potential impacts of shale gas development
- Policy analysis on state energy policies including RPS, tax incentives, land-use policy, air quality regulation, water quality regulation

- 2011-2012      **RESEARCH TRIANGLE INSTITUTE**      Durham, NC  
 Intern, Energy-Based Economic Development (Fall 2011), Consultant (2012)  
 • Analysis of energy-related economic development in Southwest PA  
 • Consultant on risk assessment tool for state shale gas regulation
- Spring 2011      **TROSA Drug Rehabilitation and Workforce Training Service**      Durham, NC  
 • (Consultant) Assisted in preparing TROSA for anticipated 2014 Medicaid expansion
- Spring 2011      **NC CENTER FOR NONPROFITS**      Raleigh, NC  
 • (Intern) Policy analysis and historical framing of legislative issues facing NC nonprofits

## BOOKS

- In preparation      “Fracking in the U.S.A.: An up close, personal, and objective look at the big questions behind the shale revolution.” Tentative agreement with Columbia University Press.

## ARTICLE PUBLICATIONS

- In preparation      “Federal Subsidies for Clean Energy.” With Richard G. Newell and William A. Pizer.  
 In preparation      “State government revenues from oil and gas production.” With Richard G. Newell.  
 In review      “Local government impacts of oil and gas development in the United States.” With Richard G. Newell. Under review at *The Energy Journal*.
- 2016      “Impacts of oil and gas development on local government finances.” With Richard G. Newell. Duke Univ. Energy Initiative working paper.
- 2016      “Oil and gas revenue allocation for local governments in the United States.” With Richard G. Newell. Duke Univ. Energy Initiative working paper.
- 2016      “Dunn County and Watford City, N.D.: A case study of the fiscal effects of Bakken shale development.” With Richard G. Newell. Duke Univ. Energy Initiative working paper.
- 2016      “Colorado’s Piceance Basin: Case Study of Local Public Finance Effects of Oil and Gas Development.” With Richard G. Newell. Duke Univ. Energy Initiative working paper.
- 2016      “Global Energy Outlook 2015.” With Richard G. Newell and Yifei Qian. Chapter 1 in *Energy and Security: Strategies for a World in Transition*. Woodrow Wilson Center Press / Johns Hopkins University Press.
- 2015      “Shale Public Finance: Local Government Revenues and Costs Associated with Oil and Gas Development.” With Richard G. Newell. *National Bureau of Economic Research*. Working paper 21542.
- 2015      “Oil and Gas Revenue Allocation for Local Governments in Eight States.” With Richard G. Newell. *National Bureau of Economic Research*. Working paper 21615.
- 2014      “Oil and Gas Revenue Allocation for Local Governments in Eight States.” With Richard G. Newell. Duke Univ. Energy Initiative working paper.
- 2014      “Implications of Shale Gas Development for Climate Change.” With Richard G. Newell. *Environmental Science and Technology*. Vol. 48, No. 15.
- 2014      “Carbon Markets: Past, Present, and Future.” With Richard G. Newell and William A. Pizer. *Annual Review of Resource Economics*, Vol. 6.
- 2014      “Carbon Markets: Effective Policy?—Response.” With Richard G. Newell and William A. Pizer. *Science*. Vol. 344, No. 6191.
- 2014      “Shale Public Finance: Local Government Revenues and Costs Associated with Oil and Gas Development.” With Richard G. Newell. Duke Univ. Energy Initiative working paper.
- 2014      “Lessons from the US: The Benefits of Fracking for Local Government.” *The Guardian* (UK).

- 2014 “Carbon Market Lessons and Global Policy Outlook.” With Richard G. Newell and William A. Pizer. *Science*. Vol. 343, No. 6177.
- 2013 “Carbon Markets 15 Year After Kyoto: Lessons Learned, New Challenges.” With Richard G. Newell and William A. Pizer. *Journal of Economic Perspectives*, Vol. 27, No. 1.
- 2013 “Shale Gas Regulations Comparison Workbook for North Carolina.” Delivered to the *N.C. Mining and Energy Commission*, March 8, 2013.
- 2012 “Potential Social Impacts of Shale Gas Development in North Carolina.” In *N.C. Oil and Gas Study*, N.C. Department of Environment and Natural Resources.
- 2012 “Carbon Markets: Past, Present, and Future.” With Richard G. Newell and William A. Pizer. *National Bureau of Economic Research*. Working paper 18504.

#### **SELECTED POPULAR PRESS COVERAGE**

- 2016 Business Insider. “Two Oil and Gas Boomtowns Can Tell Us A Lot About the Economy.”
- 2016 Newsweek. “The Aliso Canyon Methane Leak Needs Plugging Fast.”
- 2016 U.S. News and World Report. “California’s Aliso Canyon Methane Leak: Climate Disaster or Opportunity?”
- 2015 The Conversation. “As U.S. Shuttters Nuclear Power Plants, Cutting Emissions Will Become More Costly.”
- 2015 Fortune. “The Downside of Fewer U.S. Nuclear Power Plants.”
- 2015 McClatchy papers. “Oil Boom a Loser for ND Cities, Counties, Study Finds.”
- 2015 KFVR, North Dakota. Live Radio with “Energy Matters.”
- 2014 WUNC. “Fracking Boom: Research Indicates NC Towns Might Not See A Dramatic Impact.”
- 2014 Denver Post. “Shale Oil and Gas Revenues and Taxes Bolster Public Finances.”
- 2014 Science Daily. “By Itself, Abundant Shale Gas Unlikely to Alter Climate Projections.”
- 2014 International Business Times. “Fracking: Shale Gas ‘Will Not Alter Climate Change Projections.’”
- 2014 Natural Gas Intelligence. “Duke Researchers: Natural Gas Not a Villain, Not Quite a Hero.”

#### **INVITED WORKSHOPS AND CONFERENCE PRESENTATIONS**

- Nov. 2016 U.S. Department of Commerce: U.S.-Colombia Workshop on Unconventional Oil and Gas Development. Bogota, Colombia.
- Nov. 2016 University of São Paulo: Unconventional Oil and Gas Conference, Exploration and Production Feasibility in Brazil. São Paulo, Brazil.
- July 2016 Electric Power Research Institute. Greenhouse Gas Implications of Aliso Canyon Natural Gas Leak. Webinar.
- June 2016 U.S. State Department: U.S.-Argentina Workshop on the Sustainable Development of Unconventional Hydrocarbon Resources. Buenos Aires, Argentina.
- May 2016 Resources for the Future and Duke University: How oil and gas development impacts local governments and communities. Washington, DC.
- Apr. 2015 North Carolina Energy Conference. Raleigh, NC.
- Nov. 2014 University of Michigan: Ford School of Public Policy. Ann Arbor, MI.
- Oct. 2014 Arkansas Independent Producers and Royalty Owners (AIPRO): Sixth Annual Meeting. Little Rock, AR.
- Sept. 2014 King Abdullah Petroleum Studies and Research Center (KAPSARC). Workshop on “Models of Bargaining and Behavior.” Durham, NC.

- Sept. 2014 Duke University Fuqua Business School: Energy Industry Fundamentals workshop. Durham, NC.
- May 2014 Energy and Environment Symposium: Oil and Gas Education for Local Government. Garfield County, CO.
- May 2014 Duke University Energy Research Workshop. Durham, NC.
- Mar. 2014 Controlling the Local Impacts of Hydrofracking. Pace University Law School and Yale University. New Haven, CT.
- Mar. 2014 Duke University Shale Public Finance Workshop. Durham, NC.
- Dec. 2013 Controlling the Local Impacts of Hydrofracking. Pace University Law School and Yale University. White Plains, NY.
- May 2012 Shale Gas Extraction Summit on Public Health Implications and Prevention. Research Triangle Environmental Health Collaborative. North Carolina Biotechnology Center, Research Triangle Park, NC.

**GRANTS**

- 2016-2017 “Shale Public Finance: Phase III.” \$125,000. Extension of previous grant to return to five states examined in previous years.
- 2014-2016 “Shale Public Finance: Phase II.” \$249,000. Extension of previous grant to examine eight additional states; stakeholder workshop. Energy program, Alfred P. Sloan Foundation.
- 2013-2014 “Shale Public Finance.” \$125,000. Analysis of revenues and costs for local governments experiencing new oil and gas development in eight states; stakeholder workshop. Energy program, Alfred P. Sloan Foundation.

**UNIVERSITY AND PROFESSIONAL SERVICE**

- 2016 Presentation for the University of Michigan’s Environmental Engineering and Water Resources seminar series. Topic: Climate Policy in the United States: Current Status and Future Outlook.
- 2016 Panel participant, University of Michigan delegation to the 2015 Paris climate negotiations (COP 21).
- 2015 Guest Lecture, University of Michigan Earth Sciences (EARTH 380). Topic: Climate implications of shale development, oil and gas exports from the United States.
- 2015 Guest Lecture, University of Michigan Energy Systems Engineering (EES 501). Topic: Oil and gas policy and shale development.
- 2015 Guest Lecture, University of Michigan chapter of Nuclear Materials Management. Topic: Oil and gas policy and energy exports in the United States.
- 2015 Panel participant, University of Michigan Program in the Environment. Topic: Fracking.
- 2015 Panel participant, University of Michigan Divestment Steering Committee. Topic: 2015 Paris climate negotiations (COP 21).
- 2015 Coordinated student presentation by University of Michigan delegation to COP 21 negotiations in Paris, France.
- 2015 Coordinated and organized annual Duke University Energy Research Collaboration workshop.
- 2015 Organized second workshop on *Shale Public Finance*, bringing together over 20 experts from around the United States, Duke University Energy Initiative, North Carolina state government.
- 2012-2015 Regular blog posts on *Shale Public Finance* project website.
- 2012-2015 Assisted in interview process for hiring new research analysts at the Duke University Energy Initiative.

- 2013 Organized first workshop on *Shale Public Finance*, bringing together over 20 experts from around the United States, Duke University Energy Initiative, North Carolina state government.
- 2012-2013 Founded and organized Duke University “Power Trips,” taking groups of students and faculty on experiential learning trips to local and regional energy infrastructure facilities.
- 2012-2013 Participated in Duke University Energy Initiative Faculty Advisory Committee.
- 2012-2013 Assisted in organizing monthly “Energy Mix” networking event, Duke University Energy Initiative.
- 2012 Assisted in organizing workshop on *The Geopolitics of Energy: Canada*, Duke University.
- 2011-2012 Meals-on-wheels volunteer. Participating through Duke University Sanford School of Public Policy.
- 2011-2012 Durham, NC food bank volunteer.

**Ad hoc reviewer**

*National Science Foundation* (grant proposals), *Review of Policy Research*, *Energy Policy*, *International Journal of Sustainable Development Law and Policy*, *World Development*, *Choices*, *Health Security*, *Environmental Practice*, *McGill International Journal of Sustainable Development Law and Policy*, various working papers.

**TEACHING EXPERIENCE**

- 2015-2016 University of Michigan Ford School of Public Policy. PubPol 475 (3 credits). Oil and Gas Policy in the United States. 19 students. Average evaluation score of 3.81/4.00.
- 2015-2016 University of Michigan School of Natural Resources and Environment. Mentoring a team of graduate students to develop cost curve for carbon dioxide removal technologies.
- 2014 Mentored group of Duke University master’s in public policy students on project assessing domestic electricity subsidies and policy.
- 2012 Duke University Sanford School “Best teaching assistant” award
- 2011-2012 TA for core policy analysis course for Duke 1<sup>st</sup> year master’s in public policy students
- 2012 TA for national security course for Duke 2<sup>nd</sup> year master’s in public policy students
- 2011 TA for public management course for Duke 2<sup>nd</sup> year master’s in public policy students
- 2010-2011 TA for core policy analysis course for Duke undergraduate public policy majors
- 2009-2011 Fundamentals of jazz improvisation instructor, Duke University String School
- 2008-2009 Curriculum writer for literacy-through-music program “Rock the Classroom”
- 2007-2009 Master teacher for literacy-through-music program “Rock the Classroom”

**PREVIOUS EXPERIENCE**

- 2007-2011 Music Instructor. New York, NY; Los Angeles, CA; Durham, NC
- 2007-2009 Music Instructor, Master Teacher, and Curriculum Writer with music-through-literacy program “Rock the Classroom.” New York, NY; Los Angeles, CA
- 2004-2007 Music Instructor and Curriculum Writer with NYC Guitar School. New York, NY
- 2004-2009 Music Composer, self-employed. New York, NY; Los Angeles, CA