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## **EDUCATION**

Ph.D. in Economics, Stanford University,  
Completion Date: June 2015

DISSERTATION: “*Regulatory Distortions in Energy*”

B.S. in Economics and Statistics, Carnegie Mellon University  
Completion Date: May 2009

## **RELEVANT POSITIONS**

2015- Assistant Professor of Economics and Public Policy, Carnegie Mellon University  
2016-17 Ciriacy-Wantrup Postdoctoral Fellow, UC Berkeley  
2010-14 Research Assistant for Prof. F. Wolak, Stanford University  
2007-09 Research Assistant for Profs. D. Epple and H. Sieg, Carnegie Mellon University

## **PUBLISHED/FORTHCOMING PAPERS**

*Estimating the Impact of School Closings on Parental Choice (with Dennis Epple and Holger Sieg)*

**Forthcoming at Quantitative Economics**

*Does Environmental Policy Affect Scaling Laws Between Population and Pollution?  
Evidence from American Metropolitan Areas (with Nick Muller)*

**PLOS ONE (August 9, 2017)**

## **PAPERS IN THE SUBMISSION PROCESS**

*Regulatory Induced Risk Aversion: Coal Procurement at U.S. Power Plants*

*Handle With Care: The Local Environmental Costs of Coal Piles at U.S. Power Plants (with Nick Muller)*

**NBER Working Paper No. 23417**

***Economics and Externalities of Moving Crude Oil by Pipelines and Railroads: Evidence from the Bakken Formation*** (with Karen Clay, Nick Muller, and Randall Walsh)

**NBER Working Paper No. 23852**

***Considering the Nuclear Option: Hidden Benefits and Internalized Social Costs of Nuclear Power in the U.S. Since 1970*** (with David Adler and Edson Severnini)

## **WORKING PAPERS**

***Testing for Price Convergence with Transaction Costs: An Application to Financial Trading in California's Wholesale Electricity Markets*** (with Frank Wolak)

***The Physical Market Efficiency Benefits of Financial Trading: An Empirical Examination of California's Wholesale Electricity Market*** (with Frank Wolak)

***Dynamic Regulatory Distortions: Coal Procurement at U.S. Power Plants***

***Short- and Long-Run Impacts of Environmental Regulations on Firm Behavior: Evidence from the U.S. Electricity Sector from 1938-1999*** (with Karen Clay, Joshua Lewis, and Edson Severnini)

***The Economic Benefits versus Environmental Costs of India's Coal-Fired Power Plants*** (with Geoffrey Barrows and Teevrat Garg)

***The Determinants of the Cost of Supply in India*** (with Fiona Burlig and Louis Preonas)

## **PRESENTATIONS**

- 2017-18      University of Illinois Urbana-Champaign, Northwestern University, The Occasional Workshop (hosted by UC Santa Barbara), 2018 ASSA Annual Meeting, Energy Economics and Finance Seminar at University of Pennsylvania
  
- 2016-17      NBER Economics of Commodity Markets (Discussion), UC Berkeley, Ostrom Workshop at Indiana University, Searle Energy Workshop at Northwestern University, UC Davis, Heartland Workshop, 2017 ASSA Annual Meeting, UC San Diego, Workshop on Environmental and Energy Policy (at Utah State University), NBER Hydrocarbons Meeting, UC Irvine, UC Santa Barbara, AERE Summer Conference, 21<sup>st</sup> Annual SIOE Conference, Energy Camp at UC Berkeley
  
- 2015-16      University of Utah, Brown University, Clemson University, University of California-Berkeley, University of Connecticut, University of Maryland, University of Michigan, Carnegie Mellon University, Colorado School of Mines, "Energy Camp" at UC Berkeley-Haas, NBER Meeting on Hydrocarbon Infrastructure and Transportation, Heartland Workshop, INFORMS 2015 Annual Meeting, Penn State

University, NBER Meeting on the Economics of Energy Markets, 2016 International Industrial Organization Conference, Midwest Energy Fest, North American Summer Meeting of the Econometric Society, Property and Environmental Research Center (PERC) Seminar

2014-15 North American Winter Meeting of the Econometric Society, 105<sup>th</sup> National Tax Association Annual Meeting, “Energy Camp” at UC Berkeley-Haas

2013-14 “Energy Camp” at UC Berkeley-Haas

2012-13 10<sup>th</sup> Annual International Industrial Organization Conference, “Energy Camp” at UC Berkeley-Haas

### **TEACHING EXPERIENCE**

Spring 2018 Instructor for Applied Econometrics I (Masters-level), Applied Econometrics II (Masters-level) and Econometric Theory and Methods (Phd-level).

Spring 2016 Instructor for Applied Econometrics I (Masters-level).

Fall 2015 Instructor for Applied Econometrics I (Masters-level) and Econometric Theory and Methods (Phd-level).

Winter 2013 Teaching Assistant for Prof. F. Wolak, Stanford University, Intermediate Econometrics II (Phd-level).

Winter 2012 Teaching Assistant for Prof. F. Wolak, Stanford University, Intermediate Econometrics II (Phd-level).

Spring 2009 Teaching Assistant for Prof. J. Dubra, Carnegie Mellon University, Economics of Uncertainty (Undergraduate-level).

Spring 2008 Teaching Assistant for Prof. J. Dubra, Carnegie Mellon University, Principles of Microeconomics with Calculus (Undergraduate-level).

### **SCHOLARSHIPS, HONORS AND AWARDS**

2016-17 Ciriacy-Wantrup Postdoctoral Fellow (UC Berkeley)

2016 Lone Mountain Fellowship from the Property and Environmental Research Center (PERC)

2016 Grant: Scott Institute for Energy Innovation

2016 Honorarium/Seed Money: NBER Meeting on the Economics of Energy Markets

- 2015 Honorarium/Seed Money: NBER Meeting on Hydrocarbon Infrastructure and Transportation
- 2014-15 Leonard W. Ely and Shirley R. Ely Graduate Student Fund Fellowship: Stanford Institute for Economic Policy Research (SIEPR)
- 2011-12 Summer Support: John M. Olin Program in Law and Economics.
- 2009-10 Department of Economics Graduate Fellowship: Stanford.
- 2009 Undergraduate Economics Program Academic Achievement Award: Carnegie Mellon University

### **PROFESSIONAL ACTIVITIES**

**Discussant for:** International Industrial Organization Conference (2016), NBER Economics of Commodity Markets (2016), Energy/Water Workshop (organized by Iowa State University; 2017), 2018 ASSA Annual Meeting

**Referee for:** *American Economic Journal: Applied Economics, American Economic Journal: Economic Policy, The B.E Journal of Economic Analysis and Policy, The Energy Journal, European Economic Review, International Economic Review, International Journal of Industrial Organization, The Journal of Industrial Economics, Journal of the Association of Environmental and Resource Economists (JAERE), National Science Foundation, The World Bank Economic Review*

**Member of:** American Economic Association, The Econometric Society

### **REFERENCES**

Prof. Frank Wolak  
Economics Department, Stanford University  
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wolak@stanford.edu

### **PERSONAL INFORMATION**

Citizenship: United States (Born: 10/31/1987)