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Education

M.S. in Economics, May 2006
University of Wisconsin – Madison, Madison, WI, USA

B.S. in Civil and Environmental Engineering & Engineering and Public Policy, May 1997
Carnegie Mellon University, Pittsburgh, PA, USA

Professional

05/2007 – present Center Fellow – Resources for the Future, Washington, DC, USA

- Current research related to modeling and policy analysis of the electric utility sector in the United States includes work on market effects of CO_2 allowance allocation mechanisms under cap-and-trade legislation, opportunities for cost-effective GHG abatement in end-use electricity consumption efficiency, gains from trade from a nationally integrated market for renewable energy credits.

05/2006 – 01/2007 Independent Contractor – Ashburn, VA, USA

- Exercised the Haiku electricity market model with researchers from RFF to assess the impact on the State of Maryland of joining the Regional Greenhouse Gas Initiative. Project funded by Maryland Department of the Environment.

08/2005 – 05/2006 Project Assistant – University of Wisconsin-Madison, Madison, WI, USA

- Developed model of lifetime financial payback to attainment of a Bachelor's degree from UW-Madison. Model estimates changes in expected earnings trajectory, financial aid and foregone earnings during matriculation based on demographics and high school achievement.

03/2000 – 08/2004 Independent Contractor – Bangkok, Thailand

- Continued research and publishing with RFF researchers using the Haiku model.
- Translated Excel models into Analytica models for Lumina Decision Systems.
- Designed MS Access backend for Movieseer.com, a Bangkok based content provider.

09/1997 – 03/2000 Research Assistant – Resources for the Future (RFF), Washington, DC, USA

- Worked with Dr. Dallas Burtraw and Dr. Karen Palmer to design and program the original version of the Haiku electricity market model.
- Co-authored publications using results generated by the Haiku model.

05/1996 – 08/1996 Environmental Engineer – Corning Inc., Corning, NY, USA

- Designed and implemented a database for environmental data record keeping.
- Installed a reverse osmosis system.
- Administered the remediation of a site with hydrocarbon contaminated soil and groundwater.

Publications

"Supply Curves for Conserved Electricity," 2011, February. RFF Discussion Paper 11-11. with K. Palmer, M. Woerman.

"Federal Policies for Renewable Electricity," 2011, January. RFF Discussion Paper 10-53. with K. Palmer, M. Woerman. also forthcoming in *Energy Policy*.

"A New Look at Residential Electricity Demand Using Household Expenditure Data," 2010, November. RFF Discussion Paper 10-57. with H. Fell, S. Li.

"The Role of Energy Efficiency Spending in Maryland's Implementation of the Regional Greenhouse Gas Initiative," forthcoming 2010. *Energy Policy*. with K. Palmer, M. Ruth, B.F. Hobbs, D. Irani, J. Michaels, Y. Chen, K. Ross, E. Myers.

"Compensation for Electricity Consumer under a U.S. CO_2 Emissions Cap," forthcoming 2010. Reforming Rules and Regulations, ed. Vivek Ghosal: MIT Press. also RFF Discussion Paper 08-25. with D. Burtraw, K. Palmer.

"Compliance Responsibility and Allowance Allocation in a CO_2 Cap-and-Trade Program for the Electricity Sector in California," 2010, July. report for California Energy Commission. CEC-500-2010-001. with K. Palmer, D. Burtraw.

"From Regions to Stacks: Spatial and Temporal Downscaling of Power Pollution Scenarios," 2010, May. *IEEE Transactions on Power Systems*, 25:2, 1179-1189. with B.F. Hobbs, M.C. Hu, Y. Chen, J.H. Ellis, D. Burtraw, K. Palmer.

"Allowance Allocation in a CO_2 Emissions Cap-and-Trade Program for the Electricity Sector in California," 2009, October. RFF Discussion Paper 09-41. with D. Burtraw, K. Palmer.

"A Partial Adjustment Model of U.S. Electricity Demand by Region, Season, and Sector," 2009, April. RFF Discussion Paper 08-50. under review at *Energy Economics*. with E. Myers, K. Palmer.

"Haiku Documentation: RFF's Electricity Market Model version 2.0," 2009, January. RFF Report. with D. Burtraw, K. Palmer.

"Economic and Energy Impacts from Participation in the Regional Greenhouse Gas Initiative: A Case Study of the State of Maryland," 2008, June. *Energy Policy*, 36:6, 2279-2289. with M. Ruth, S. Gabriel, K. Palmer, D. Burtraw, Y. Chen, B.F. Hobbs, D. Irani, J. Michael, K. Ross, R. Conklin, J. Miller.

"Green Corridors: Linking Interregional Transmission Expansion and Renewable Energy Policies," 2008, March. RFF Discussion Paper 08-06. with S. Vajjhala, R. Sweeney, K. Palmer.

"Ancillary Benefits of Reduced Air Pollution in the United States from Moderate Greenhouse Gas Mitigation Policies in the Electricity Sector," 2003, May. *Journal of Environmental Economics and Management*, 45:3, 650-673. with A. Krupnick, D. Burtraw, K. Palmer, M. Toman, C. Bloyd.

"Electricity Restructuring, Environmental Policy and Emissions," 2002, December. RFF Report. with D. Burtraw, K. Palmer, R. Bharvirkar.

"The Effect on Asset Values of the Allocation of Carbon Dioxide Emission Allowances," 2002, June. *The Electricity Journal*, 15:5, 51-62. with D. Burtraw, K. Palmer, R. Bharvirkar.

"The RFF Haiku Electricity Market Model," 2002, June. RFF Report. with D. Burtraw.

"Cost-Effective Reduction of NO_x Emissions from Electricity Generation," 2001, October. *Journal of Air & Waste Management*, 51:10, 1476-1489. with D. Burtraw, K. Palmer, R. Bharvirkar.

"The Effect of Allowance Allocation on the Cost of Carbon Emission Trading," 2001, August. RFF Discussion Paper 01-30. with D. Burtraw, K. Palmer, R. Bharvirkar.

"Restructuring and the Cost of Reducing NO_x Emissions in Electricity Generation," 2001, July. RFF Discussion Paper 01–10REV. with D. Burtraw, K. Palmer and R. Bharvirkar.

"Regional Impacts of Electricity Restructuring on Emissions of NO_x and CO_2," 2000, June. Maryland Department of Natural Resources, Power Plant Research Program, PPRP-123. with D. Burtraw, K. Palmer.