
**CONTACT
INFORMATION**

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**CURRENT
POSITIONS**

2024–Pres Assistant Adjunct Professor, Graduate School of Management, UC Davis
2023–Pres Visiting Professor, Department of Economics, UC Davis

**PREVIOUS
POSITIONS**

2017–2023 Assistant Professor, Department of Economics, Vanderbilt University
2022–2023 Visiting Researcher, Computer Science and Artificial Intelligence Lab, MIT
2015–2017 High Meadows Senior Economist, Environmental Defense Fund
2014–2015 High Meadows Post-doctoral Fellow, Environmental Defense Fund
2014–2015 Post-doctoral Fellow, Center for Energy and Environmental Policy Research, MIT
2012–2014 Research Assistant, Energy Institute at Haas, University of California, Berkeley
2008–2012 Air Pollution Specialist, California Air Resources Board
2002–2004 AmeriCorps Member, City Year, Inc.

EDUCATION

2014 Ph.D. in Agricultural and Resource Economics, University of California, Berkeley
2011 M.S. in Business and Public Policy, University of California, Berkeley
2008 B.S. in Applied Economics and Management, Cornell University

RESEARCH**Economics Publications**

1. “Expecting the Unexpected: Emissions Uncertainty and Environmental Market Design” (with Severin Borenstein, James Bushnell and Frank Wolak), *American Economic Review* 109(11) (2019): 1-26.
2. “Anticipation and Environmental Regulation” (with Katherine Rittenhouse), *Journal of Environmental Economics and Management* 89 (2018): 255-277.
3. “The Effects of Regulation in the Presence of Multiple Unpriced Externalities: Evidence from the Transportation Sector” (with Antonio Bento, Daniel Kaffine and Kevin Roth), *American Economic Journal: Economic Policy* 6(3) (2014): 1-29.
4. “Downstream Regulation of CO₂ Emissions in California’s Electricity Sector” (with James Bushnell and Yihsu Chen), *Energy Policy* 64 (2014): 313-323.

Interdisciplinary Publications

5. “Nuclear Beta-Catenin Expression in Endometrioid Intraepithelial Neoplasia (Atypical Hyperplasia) Does Not Predict Carcinoma on Subsequent Hysterectomy.” (with Martha Wright, Sarah Fitzlaff, Autumn Wyeth, Mirna Podoll, Charles Quick and Jaclyn Watkins), *International Journal of Gynecological Pathology* 40(3) (2021): 240-247.

Submitted and Working Papers

1. “Vertical Integration and Market Inefficiencies in Natural Gas and Electricity Markets” (with Levi Marks and Chuck Mason) (2022) – *Under Review*
2. “Allocation, Efficiency, and Rent-Seeking in the All-Pay Auction with Resale” (2022) – *Under Review*
3. “Are Carbon Markets Reshaping the U.S. Electricity Industry?” (with Bing Yang Tan) (2023)
4. “Incomplete Regulation, Output-Based Allocation, and Firm Behavior: Evidence from California’s Carbon Market” (2022)
5. “Do Carbon Markets Affect Labor Markets?” (2022)

Work in Progress

1. “Transportation, Partial Regulation and Emissions Leakage: Evidence from the Fatality Analysis Reporting System” (with Katherine Rittenhouse)
2. “The Macroeconomic Impacts of California’s Economy-wide Carbon Market”
3. “Do Greenhouse Gas Regulations Provide Local Pollution Co-benefits?”
4. “The Economics of Radon” (with Lachlan Watkins)
5. “Natural Gas and the Energy Transition” (with Jim Stock)

Public Policy Reports

1. “Leakage and Industrial Subsidies,” Distributional Effects of Environmental Markets. (2018)
2. “Better Access. Healthier Environment. Prosperous Communities. Recommended Reforms for the California Water Market.” (with Christina Babbitt, Ana Lucia Garcia Briones, David Festa, Ann Hayden, and Scott Sellers) (2016)
3. “Edwards Aquifer Authority,” The Future of Groundwater in California. (with Kanishka Singh) (2016)
4. “Kings Basin,” The Future of Groundwater in California. (with Justin Ebrahemi) (2016)
5. “Climate and Energy Policy Solutions for China.” Energy Innovation (credited as a contributing author) (2016)
6. “Report of the Market Simulation Group on Competitive Supply/Demand Balance in the California Allowance Market and the Potential for Market Manipulation.” Energy Institute at Haas Working Paper 251 (with Severin Borenstein, James Bushnell and Frank Wolak) (2014)
7. “Appendix A: Staff Proposal for Allocating Allowances to Electricity Distribution Utilities. 15-Day Changes to the Proposed Regulation to Implement the California Cap-and-Trade Program.” California Air Resources Board (as Staff) (2011)
8. “Appendix B: Development of Product Benchmarks for Allowance Allocation. 15-Day Changes to the Proposed Regulation to Implement the California Cap-and-Trade Program.” California Air Resources Board (as Staff) (2011)
9. “Staff Report: Initial Statement of Reasons. Proposed Regulation to Implement the California Cap-and-Trade Program.” California Air Resources Board (as Staff) (2010)
10. “Appendix J: Allowance Allocation. Proposed Regulation to Implement the California Cap-and-Trade Program.” California Air Resources Board (as Staff) (2010)
11. “Appendix K: Leakage Analysis. Proposed Regulation to Implement the California Cap-and-Trade Program.” California Air Resources Board (as Staff) (2010)
12. “Appendix L: Economic and Allocation Advisory Committee Recommendations. Proposed Regulation to Implement the California Cap-and-Trade Program.” California Air Resources Board (as Staff) (2010)