

NOAH DORMADY, PH.D.

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ACADEMIC APPOINTMENTS

The Ohio State University <i>John Glenn College of Public Affairs, Associate Professor</i> <i>John Glenn College of Public Affairs, Assistant Professor</i> <i>Battelle Center for Science, Engineering and Public Policy, Affiliate</i>	Columbus, OH 2019 – Present 2012 – 2019 2012 – 2023
University of Illinois, Urbana-Champaign <i>Critical Infrastructure Resilience Institute (CIRI), Faculty Affiliate</i>	Urbana, IL 2016 – Present
University of Southern California (USC) <i>CREATE, Fellow</i>	Los Angeles, CA 2016 – Present
Chaffey College <i>Department of Political Science, Associate Faculty</i>	Rancho Cucamonga, CA 2008
Mt. San Jacinto College <i>Department of Political Science, Associate Faculty</i>	San Jacinto, CA 2008

EDUCATION

University of Southern California (USC) <i>Ph.D., Public Policy, Planning & Development</i> Henry Reining Jr. Award—Best Dissertation in Public Policy Dissertation: <i>Emissions Markets, Power Markets and Market Power: A Study of the Interactions Between Contemporary Emissions Markets and Deregulated Electricity Markets.</i>	Los Angeles, CA 2012
University of California, Riverside <i>Master of Arts, Political Science</i>	Riverside, CA 2006
University of California, Riverside <i>Bachelor of Arts (cum laude), Political Science</i>	Riverside, CA 2004

EDITORIAL APPOINTMENTS

Environmental Hazards <i>Editorial Board</i>	2025 – Present
Natural Hazards Review <i>Associate Editor</i>	2021 – Present
Journal of Critical Infrastructure Policy <i>Associate Editor</i>	2020 – Present
Natural Hazards Review <i>Guest Editor</i>	2019 – 2021

RESEARCH FIELDS

Energy Markets | Experimental Economics | Energy & Environmental Policy | Economic Resilience | Emissions Markets | Cap & Trade | Deregulation | Auctions & Strategic Behavior | Monopoly Behavior | Economics of Disasters | Survey Research | Experimental Surveys | Risk & Decision Analysis

RECENT GRANTS

23. Alfred P. Sloan Foundation. 2026-2027. Choice with No Options: An Evaluation of the Economic Efficiency and Equity Impacts of Submetering Under Retail Electric Deregulation. \$150K. (PIs: Dormady, N., Lamadrid, A., Fox, S., & Shafieezadeh, A.)
22. Defense Advanced Research Projects Agency (DARPA). 2026-2027. TA3: Forecasting Risk in Supply-Demand Networks (FRSN)–Phase III. (undisclosed)M. (Co-PI) (PI: Santini, J.)
21. National Science Foundation (NSF). 2025-2027. EAGER: A Novel Investigative Approach for Empirical and Theoretical Advances in Dynamic Economic Resilience. \$299K. (PIs: Dormady, N., Watson, M., & Rose, A.)
20. Alfred P. Sloan Foundation. 2022-2026. Who Pays for Electrification & Resilience?: An Evaluation of the Equity, Justice & Efficiency Impacts of Retail Electric Deregulation. \$499K. (PIs: Dormady, N., Lamadrid, A., & Shafieezadeh, A.)
19. National Science Foundation (NSF) & Japan Science and Technology Agency (JST). 2024-2026. NSF-JST: Advanced Data and Methods to Improve Hazard Resilience for Underrepresented Groups: Minority- and Women-Owned Small and Mid-sized Businesses. \$1.3M. (PIs: Dormady, N., Kajitani, Y., Tatano, H., Rose, A., & Watson, M.)
18. Department of Energy (DOE). 2023-2026. A People-Centered Decision Support Tool for Enhancing Power Grid Resilience for the Navajo Nation. \$1.1M. (PIs: Illafe, M., Shafieezadeh, A., Mohagheghi, S., & Dormady, N.)
17. State of New Mexico. 2023-2026. State supplement to: A People-Centered Decision Support Tool for Enhancing Power Grid Resilience for the Navajo Nation. \$500K. (PIs: Illafe, M., Shafieezadeh, A., Mohagheghi, S., & Dormady, N.)
16. Defense Advanced Research Projects Agency (DARPA). 2022-2026. TA3: Forecasting Risk in Supply-Demand Networks (FRSN). (undisclosed)M. (Co-PI) (PI: Santini, J.)
15. Department of Energy (DOE). 2022-2027. OSU-ENGIE Connected Community: Automated Building Control with Knowledge of Distributed Energy Resources and Electrical Systems for Grid Offerings. \$4.2M. (Co-PI) (PI: Clark, J.)
14. National Science Foundation (NSF). 2020-2025. NRT-HDR: Convergent Graduate Training and EmPOWERment for a Sustainable Energy Future. \$2.98M. (Co-I) (PI: Sioshansi, R.)
13. Department of Homeland Security (DHS). 2020-2021. Technology Transition: Business Resilience Calculator. \$129K. (PIs: Rose, A., & Dormady, N.)
12. Department of Homeland Security (DHS). 2020. Technology Transition: Business Resilience Calculator Covid-19 Supplement. \$40K. (PIs: Rose, A., & Dormady, N.)
11. Department of Homeland Security (DHS). 2019. Technology Transition: Business Resilience Calculator. \$207K. (PIs: Rose, A., & Dormady, N.)

10. National Science Foundation (NSF). 2018-2019. Research Experiences for Undergraduates (REU). \$8K. (PIs: Dormady, N.)
9. National Science Foundation (NSF). 2016-2019. A Novel Dynamically-Coupled Storm Surge Hazard-Infrastructure Model for Effective Real-Time Risk-Informed Decision Making. \$487K. (PIs: Shafieezadeh, A., Dormady, N., & Kubatko, E.)
8. Department of Homeland Security (DHS). 2017-2018. Measuring Business & Economic Resilience in Disasters. \$190K. (PIs: Rose, A., Dormady, N., & Rosoff, H.)
7. Department of Homeland Security (DHS). 2017-2018. Resilience Governance for Infrastructure Dependencies & Interdependencies. \$175K. (PIs: Flynn, S., Holdeman, E., Ruth, M., Stephens, J., Ellis, R., White, R., & Dormady, N.)
6. Department of Homeland Security (DHS). 2016-2018. Analyzing & Measuring Economic Resilience to Disasters. \$250K. (PIs: Rose, A., Dormady, N., & Rosoff, H.)
5. Department of Homeland Security (DHS). 2016-2017. Resilience Governance. \$400K. (PIs: Flynn, S., Ruth, M., & Dormady, N.)
4. Office of Energy & Environment, The Ohio State University. 2016-2017. Energy & Water Infrastructure Planning Under Extreme Events. Sustainable, Resilient Economy (SRE) Seed Grant. \$35K. (PIs: Bayraksan, G., Conejo Navarro, A., Sioshansi, R., Dormady, N., & Greenbaum, R.)
3. Department of Homeland Security (DHS). 2016-2020. Critical Infrastructure Resilience Institute (CIRI). Center Grant. \$20M. (Co-I) (PI: Nicol, D.)
2. National Science Foundation (NSF). 2014-2017. An Integrated Approach to Measuring Dynamic Economic Resilience Following Disasters. \$493K. (PIs: Rose, A., Tierney, K., & Dormady, N.)
1. National Center for the Middle Market. 2014-2015. An Experimental Analysis of Middle Market Resilience: Gender, Frequency & Information. \$68K. (PIs: Dormady, N., & Greenbaum, R.)

OLDER RESEARCH FUNDING SOURCES

John Randolph & Dora Haynes Foundation | The Southern Governors' Association | The Center for Climate Strategies | The Pennsylvania Department of Environmental Protection | The Next 10 Foundation | The University of Southern California | The University of California | U.S. Communications Agency | The RAND Corporation

PUBLICATIONS IN PROGRESS

Ji, Y., Dormady, N., Shafieezadeh, A., Diana, K., Hoyt, M., Lamadrid, A., & Fox, S. An Explainable Machine Learning Analysis of Suppliers' Margin on Retail Renewables.

Dormady, N., Fox, S., Kahn-Lang, J., Lamadrid, A., Choi, Y., Hoyt, M., & Ji, Y. Public Management of Deregulated Systems: Challenges and Opportunities in the Public Management of Retail Energy Markets.

Ji, Y., Shafieezadeh, A., & Dormady, N. Interpretable Forecasting of Retail Electricity Prices Using Causal Graph-Informed Temporal Convolutional Networks.

Rose, A., Sharma, V., & Dormady, N. [The Role of Optimal Disaster Resilience and Recovery in Estimating Benefits of Adaptation.](#)

Fox, S., Dormady, N., Lamadrid, A., Shafieezadeh, A., Hoyt, M., & Ji, Y. Lessons for Residential Energy Survey Data Collection.

Ji, Y., Shafieezadeh, A., Dormady, N., Choi, Y., Fox, S., Lamadrid, A., Diana, K., & Hoyt, M. Consumer Preferences in Retail Electricity Contracts: A Conjoint Analysis Using Hierarchical Bayes Models in Ohio.

Rose, A., Dormady, N., Tatano, H., Kajitani, Y., Watson, M., Liu, H., Sharma, V., & Yoshida, M. [Economic Baselines For Evaluating Disaster Resilience And Recovery.](#)

Kajitani, Y., Tatano, H., Liu, H., Yoshida, M., Dormady, N., Watson, M., & Byun, S. Long-term Recovery of Female- and Immigrant-owned Businesses Following the 2011 Tohoku Earthquake.

Hoyt, M., Feasel, T., Dormady, N., & Welch, W. Do You Trust EIA Data?: An Evaluation of Electricity Price Data Across Utilities in Ohio.

Dormady, N., Osei-Ahenkan, V., Roa-Henriquez, A., Choi, Y., & Yaluma, C. Quantifying Resilience at the Level of the Household: Mapping Resilience to Multi-Attribute Household Utility Functions.

Lamadrid, A., Dormady, N., Aneshansel, B., Fox, S., Shafieezadeh, A., & Welch, W. Price Competitiveness and Consumer Equity in Electric Municipal Aggregation.

Choi, Y., Dormady, N., Ji, Y., Diana, K., Fox, S., Shafieezadeh, A., & Lamadrid, A. [Watt We Say or What We Do: What Do Consumers Really Want in Retail Energy?](#)

Osei-Ahenkan, V., & Dormady, N. The Role of Numeracy and Personal Experience in Emergency Decision Making: Evidence from Professional Emergency Managers.

Choi, Y., Abudu, H., Dormady, N., & Roa-Henriquez, A. Are More Competitive Supply Chains More Resilient? Evidence from Defense Industrial Base (DIB) Supply Chains.

Hoyt, M., Kuykendall, O., & Dormady, N. Default Electric Service in Restructured Jurisdictions.

PUBLICATIONS

32. Dormady, N., Roa-Henriquez, A., Hoyt, M., Pesavento, M., Koenig, G., Welch, W., & Li, Z. (2025). [How Are Retail Prices Formed in Restructured Electricity Markets?](#) *Energy Economics*, 143: 108243.
***Highlighted in** (too many to cite individually): Akron Beacon Journal; The Columbus Dispatch; The Springfield News Sun; Spectrum News 1; The Ohio Capital Journal (3x); Yahoo News (2x); Crain's Cleveland Business (2x); National Public Radio (NPR); WOSU; WYSO; WCMH The Spectrum Show; Public News Service;

MSN (2x); WKRC Channel 12 Cincinnati; ABC News 5 Cleveland; The Athens Messenger; The State of Ohio Show with Karen Kasler (2x); Straight Arrow News; The Cleveland Plain Dealer (3x); WBNS Channel 10 TV; WTOL Toledo; Columbus Morning News AM 610 (2x); Newsweek Magazine; NBC5 Chicago (2x); The Conversation; Cincinnati City Beat; Seattle Post Intelligencer; Ohio State University News; Dayton Daily News; Cleveland Scene Magazine; The American Prospect Magazine; RealClearPennsylvania.com; The Cincinnati Enquirer; The Philadelphia Inquirer (Front page of Sunday business section); The Baltimore Sun; The Alfred P. Sloan Foundation Highlights Magazine.

31. Choi, Y., & Dormady, N. (2025). [Can FICO Score Be Used To Explain Managerial Decision Making? Evidence From A Supply Chain Resilience Experiment.](#) *International Journal of Production Economics*. 109675.
30. Dormady, N., Welch, W., Ji, Y., Pedron, S., Shafieezadeh, A., Lamadrid, A., Hoyt, M., & Fox, S. (2025). [Efficiency and Consumer Welfare Under Retail Electricity Deregulation: Analysis of Ohio's Retail Choice Markets.](#) *Journal of Critical Infrastructure Policy*, 6: e12031.
***Highlighted in** (too many to cite individually): Akron Beacon Journal; The Columbus Dispatch; The Springfield News Sun; Spectrum News 1; The Ohio Capital Journal (3x); Yahoo News (2x); Crain's Cleveland Business (2x); National Public Radio (NPR); WOSU; WYSO; WCMH The Spectrum Show; Public News Service; MSN (2x); WKRC Channel 12 Cincinnati; ABC News 5 Cleveland; The Athens Messenger; The State of Ohio Show with Karen Kasler (2x); Straight Arrow News; The Cleveland Plain Dealer (3x); WBNS Channel 10 TV; WTOL Toledo; Columbus Morning News AM 610 (2x); Newsweek Magazine; NBC5 Chicago (2x); The Conversation; Cincinnati City Beat; Seattle Post Intelligencer; Ohio State University News; Dayton Daily News; Cleveland Scene Magazine; The American Prospect Magazine; RealClearPennsylvania.com; The Cincinnati Enquirer; The Philadelphia Inquirer (Front page of Sunday business section); The Baltimore Sun; The Alfred P. Sloan Foundation Highlights Magazine.
29. Dormady, N., Rose, A., Snider, C., & Roa-Henriquez, A. (2024). [Cost-Effective Business Resilience Decision Making.](#) *Oxford Research Encyclopedia of Natural Hazard Science*.
28. Watson, M., Brown, C., Handmer, J., Kroll, C., Wein, A., Helgeson, J., Rose, A., Dormady, N., & Kim, J. (2023). [Methods and Lessons for Business Resilience and Recovery Surveys.](#) *International Journal of Disaster Risk Reduction*, 93: 103743.
27. Dormady, N., Rose, A., Roa-Henriquez, A., & Morin, B. (2022). [The Cost-Effectiveness of Economic Resilience.](#) *International Journal of Production Economics*, 244: 108371.
***Highlighted in Inc. Magazine.** [America's Rebuilders: How Extreme Weather Puts Small Businesses on the Brink](#)
26. Dormady, N., Fasano, A., Roa-Henriquez, A., Flanagan, D., Welch, W., & Wood, D. (2022). [Informational Determinants of Large-area Hurricane Evacuations.](#) *Bulletin of the American Meteorological Society*, 103 (3): E642-E656.
***Lead Article**

***Highlighted in the American Meteorological Society Magazine.**

[Determining Hurricane Evacuations: The Information Officials Use When Deciding Who and When to Evacuate.](#)

***Featured in the American Meteorological Society Substack.**

[Hurricane Evacuation Decisions: How to Communicate Hurricane Forecasts So They Statistiek.](#) Price, A. (March 5, 2025).

25. Dormady, N., Rose, A., & Morin, B. (2022). [Advances in the Empirical Estimation of Disaster Resilience.](#) In: Skidmore, M. (Ed.). *Handbook on the Economics of Natural Disasters*. Cheltenham: Edward Elgar.
24. Dormady, N., Greenbaum, R., & Young, K. (2021). [An Experimental Investigation of Resilience Decision Making in Repeated Disasters.](#) *Environment Systems & Decisions*, 41: 556-576.
23. Dormady, N., Greenbaum, R., & Young, K. (2021). [Value of Information on Resilience Decision Making in Repeated Disaster Environments.](#) *Natural Hazards Review*, 22 (1): 04020048.
***Editor's Choice Collection.**
22. Rose, A., & Dormady, N. (2021). [Conceptual Foundations & Empirical Advances of Economic Resilience with Extensions to Complexity, Entropy & Spatial Dynamics.](#) In: Reggiani, A., Schintler, L.A., Czamanski, D., & Patuelli, R. (Eds.) *Handbook on Entropy, Complexity & Spatial Dynamics*. Cheltenham: Edward Elgar.
21. Rahimi, M., Shafieezadeh, A., Wood, D., Kubatko, E.J., & Dormady, N. (2019). [Bayesian Calibration of Multi-Response Systems via Multivariate Kriging: Methodology & Geological & Geotechnical Case Studies.](#) *Engineering Geology*, 260 (3): 105248.
20. Dormady, N., Jones, D., Roe, B., & Rub, G. (2019). [An Intersection of Privatization & Public Utility Regulation: The Ohio State University's Energy Concession Agreement & Private-Public Utility Theory.](#) *Utilities Policy*, 59: 100929.
19. Dormady, N., & Healy, P.J. (2019). [The Consignment Mechanism in Carbon Markets: A Laboratory Investigation.](#) *Journal of Commodity Markets*, 14: 51-65.
18. Dormady, N., Hoyt, M., Roa-Henriquez, A., & Welch, W. (2019). [Who Pays for Retail Electric Deregulation?: Evidence of Cross-Subsidization from Complete Bill Data.](#) *The Energy Journal*, 40 (2): 161-194.
17. Dormady, N., Jiang, Z., & Hoyt, M. (2019). [Do Markets Make Good Commissioners: A Quasi-Experimental Analysis of Retail Electric Restructuring in Ohio.](#) *Journal of Public Policy*, 39 (3): 483-515.
16. Dormady, N., Roa-Henriquez, A., & Rose, A. (2019). [Economic Resilience of the Firm: A Production Theory Approach.](#) *International Journal of Production Economics*, 208: 446-460.
15. Dormady, N. (2019). [Auction Design Influences Efficiency: California's Consignment Mechanism in Perspective.](#) *International Association of Energy Economics Energy Forum*.

14. Dormady, N., Rose, A., Rosoff, H., & Roa-Henriquez, A. (2019). [Estimating the Cost-Effectiveness of Resilience to Disasters: Survey Instrument Design & Refinement of Primary Data](#). In: Ruth, M., & Reiemann, S.G. (Eds.) *Handbook on Resilience of Socio-Technical Systems*. Cheltenham: Edward Elgar.
13. Dormady, N., & Ellis, R. (2018). [Energy-Transport Sector Interdependence in Extreme Events: The Case of a Hurricane Event in Boston](#). *Current Sustainable/Renewable Energy Reports*, Energy Markets Special Issue: 1-13.
12. Rose, A., & Dormady, N. (2018). [Advances in Analyzing & Measuring Dynamic Economic Resilience](#). In: Trump, B. D., Florin, M.V., & Linkov, I. (Eds.). *IRGC Resource Guide on Resilience (Vol. 2): Domains of Resilience for Complex Interconnected Systems*. Lausanne, CH: EPFL International Risk Governance Center (IRGC).
11. Young, K., Greenbaum, R., & Dormady, N. (2017). [Sex, Gender & Disasters: Experimental Evidence on the Decision to Invest in Resilience](#). *International Journal of Disaster Risk Reduction*, 24: 439-450.
10. Dormady, N. (2017). [Having Your Cake & Eating it, Too: Ohio's Proposals to Re-Regulate through Power Purchase Agreements](#). *The Electricity Journal*, 30 (5): 42-46.
9. Dormady, N. (2016). [Carbon Auction Revenue & Market Power: An Experimental Analysis](#). *Energies*, 9 (11): Article No. 897.
***Highlighted in The Regulatory Review**. Williamson, B.C., [Let the Carbon Auctioneer Beware](#). September 12, 2017.
8. Dormady, N., & Englander, A.G. (2016). [Carbon Allowances & the Demand for Offsets: A Comprehensive Assessment of Imperfect Substitutes](#). *Journal of Public Policy*, 36 (1): 139-167.
7. Wei, D., Dormady, N., & Rose, A. (2015). [Development of Reduced-Form Models to Evaluate Macroeconomic Impacts of Greenhouse Gas Mitigation](#). *Journal of Sustainable Energy Engineering*, 2 (4): 377-397.
6. Dormady, N. (2014). [Carbon Auctions, Energy Markets & Market Power: An Experimental Analysis](#). *Energy Economics*, 44: 468-482.
5. Dormady, N., Szelazek, T., & Rose, A. (2014). [The Potential Impact of an Anthrax Attack on Real Estate Prices & Foreclosures in Seattle](#). *Risk Analysis*, 34 (1): 187-201.
4. Dormady, N. (2013). [Market Power in Cap-and-Trade Auctions: A Monte Carlo Approach](#). *Energy Policy*, 62: 788-797.
3. Dormady, N. (2013). [The Political Economy of Collaborative Organization](#). *Administration & Society*, 45 (6): 748-772.
2. Rose, A., Wei, D., & Dormady, N. (2011). [Macroeconomic Assessment of the Pennsylvania Climate Action Plan](#). *Regional Science Policy & Practice*, 3 (4):

357-379.

***Winner: 2012 Economic Analysis Award, Regional Economic Models Inc. (REMI).**

1. Rose, A., & Dormady, N. (2011). [A Meta-Analysis of the Economic Impacts of Climate Change Policy in the United States](#). *The Energy Journal*, 32 (2): 143-166.

REPORTS & POLICY BRIEFS

15. Dormady, N., Roa-Henriquez, A., Hoyt, M., Pesavento, M., Koenig, G., Welch, W., & Li, Z. [A Look Under the Hood: Unexpected Factors that Increase Retail Electricity Prices in Ohio](#). John Glenn College of Public Affairs Policy Brief. May 6, 2025.
14. Dormady, N., Choi, Y., Abudu, R., & Rose, A. [Critical and Essential Metals Supply Chain Resilience: A Summary of Resilience Tactic Use, Cost and Effectiveness from RSDN TA3 US-firm Survey Data](#). Report to the Defense Advanced Research Projects Agency (DARPA). Arlington, VA. April 30, 2025.
13. Dormady, N., & Choi, Y. [Critical and Essential Metals Supply Chain Resilience: A Summary of RSDN TA3 US-firm Survey Data](#). Report to the Defense Advanced Research Projects Agency (DARPA). Arlington, VA. April 15, 2025.
12. Dormady, N., Ji, Y., Welch, W., Shafieezadeh, A., Lamadrid, A., Hoyt, M., & Fox, S. [Finding A Black Cat in a Coal Cellar: Ohio State University Study of Ohio's Retail Electricity Markets Finds Majority of Retail Electric Supply Offers Have Not Been Cost Saving, Cost Saving Offers Difficult to Find](#). John Glenn College of Public Affairs Policy Brief. December 1, 2024.
11. Rose, A., & Dormady, N. [Analyzing the Role of Fairness of Israeli-Palestinian Land Swaps in the Two-State Solution](#). U.S. Department of Defense MINERVA Research Initiative. White Paper: May 31, 2024.
10. Chang, S.E., Brown, C., Dormady, N., Handmer, J., Kajitani, Y., Keating, A., Rose, A., Watson, M., Wein, A., & Yamano, N. [Economic Recovery: Enabling Comparative Research on Covid-19](#). NSF-CONVERGE Covid-19 Working Groups for Public Health & Social Sciences Research. June 1, 2020.
9. Dormady, N., Jiang, Z., & Hoyt, M. [Why Ohio's Retail Electric Deregulation Has Been Bad for Households & Why Re-Regulation Would Be Even Worse](#). John Glenn College of Public Affairs Policy Brief. March 1, 2017.
8. Rose, A., & Dormady, N. [Israeli-Palestinian Land Swap Auction Model, Final Report](#). RAND Intelligence Policy Center. Santa Monica, CA. January 1, 2014.
7. Roberto, C., & Dormady, N. [The Costs of Inefficiency: Ignoring Ohio's Energy Efficiency Potential](#). John Glenn School of Public Affairs Policy Brief. March 1, 2013.
6. Rose, A., & Dormady, N. [Three-State Regression Analysis of the Macroeconomic Impacts of Climate Mitigation Options: Report to the State of Maryland](#). The Center for Climate Strategies. August 1, 2011.

5. Rose, A., Szelazek, T., & Dormady, N. *Economic Analysis of the Consequences of a Potential Anthrax Terrorist Attack in the Pacific Northwest: Business Income Losses & Real Estate Price Declines*. Center for Risk & the Economic Analysis of Terrorism Events (CREATE), University of Southern California. Final Report to the United States Department of Homeland Security. August 1, 2011.
4. Rose, A., et al. *Aggregate & Distributional Impacts of AB32 on the California Economy: Alternative Allocation Strategies for Cap & Trade*. The Next 10 Foundation. December 1, 2010.
3. Rose, A., et al. *Impacts of Comprehensive Climate & Energy Policy Options on the U.S. Economy*. The Center for Climate Strategies. July 1, 2010.
2. Rose, A., & Dormady, N. *Global Economic Impacts of an International Climate Change Treaty*. CENTRA Technologies National Security Impacts of a Prospective Climate Change Treaty Workshop Report. Washington, D.C., 2010.
1. Rose, A., et al. *Southern Regional Economic Assessment of Climate Policy Options & Review of Economic Studies of Climate Policy: A White Paper Report*. Prepared for The Southern Governors' Association. The Center for Climate Strategies. October 1, 2009.

PATENT

Dormady, N., Rose, A., Morin, B., Roa-Henriquez, A. (2022). Business Resilience Decision Support Tool and Related Methods. U.S. Patent No. 63/314,650. Filed February 28, 2022. Provisional patent.

EXPERT WITNESS TESTIMONY & PRE-FILED WRITTEN TESTIMONY

Expert/Opinion Witness on Ohio's Energy Policy, Markets and Deregulation. Before the Southern District of Ohio. *United States v. Householder et al.*, Crim. No. 1:20-CR-77. Cincinnati, Ohio, January 23, 2023.

Before the Public Utilities Commission of Ohio, Hearing on American Electric Power's (AEP's) Proposal to Enter into Renewable Energy Purchase Agreements for Inclusion in the Renewable Generation Rider (Case No. 18-0501-EL-FOR), Columbus, Ohio, February 6, 2019.

Before the Public Utilities Commission of Ohio, Pre-filed Written Direct Testimony on American Electric Power's (AEP's) Proposal to Enter into Renewable Energy Purchase Agreements for Inclusion in the Renewable Generation Rider (Case No. 18-0501-EL-FOR), Columbus, Ohio, January 25, 2019.

Before the Public Utilities Commission of Ohio, Pre-filed Written Direct Testimony on Dayton Power & Light Co.'s Electric Security Plan (Case No. 16-0395-EL-SSO), Columbus, Ohio, September 18, 2016.

Before the Public Utilities Commission of Ohio, Hearing on Ohio Power Company's Stipulation Agreement to Enter into an Affiliate Power Purchase Agreement (Case No. 14-1693-EL-RDR), Columbus, Ohio, January 8, 2016.

Before the Public Utilities Commission of Ohio, Pre-filed Written Direct Testimony on Ohio Power Company's Stipulation Agreement to Enter into an Affiliate Power Purchase Agreement (Case No. 14-1693-EL-RDR), Columbus, Ohio, December 28, 2015.

Before the Public Utilities Commission of Ohio, Hearing on Ohio Power Company's Application to Enter into an Affiliate Power Purchase Agreement (Case No. 14-1693-EL-RDR), Columbus, Ohio, October 2, 2015.

Before the Public Utilities Commission of Ohio, Pre-filed Written Direct Testimony on Ohio Power Company's Application to Enter into an Affiliate Power Purchase Agreement (Case No. 14-1693-EL-RDR), Columbus, Ohio, September 11, 2015.

INVITED TALKS & EXPERT INTERVIEWS

2026: Natural Hazards Workshop U.S.-Japan Joint Research Program on Human-Centered Data for Disaster Resilience Research (HCDDRR)

2025: World Bosai Forum (Sendai Japan) | Defense Advanced Research Projects Agency (DARPA) | University of Coimbra, Iniciativa Energia para a Sustentabilidade (Portugal) | Navajo Technical University | Ohio State University Agricultural, Environmental & Development Economics (AEDE)

2024: Defense Advanced Research Projects Agency (DARPA) | Ohio State University John Glenn College of Public Affairs Colloquium | Ohio State University Energy Foundations Seminar | Ohio State University Office of Student Life

2023: US Department of Energy (DOE) | Defense Advanced Research Projects Agency (DARPA) | Institute for Catastrophic Loss Reduction (ICLR) | US Military Academy at West Point | WOSU (NPR)

2022: Sustainability & Security Forum, George Washington University | Challey Institute, North Dakota State University | Central Ohio Association of Government Accountants (AGA) | City of Norfolk, Virginia | Smart Electric Power Alliance

2021: US Department of Homeland Security Office of University Programs | Ohio State University Sustainability Institute (SI) | Ohio State University Knowlton School of City & Regional Planning | University of Washington Transportation & Power Systems Resilience Workshop

2020: Critical Infrastructure Resilience Institute (CIRI), University of Illinois, Urbana-Champaign | The Atlantic Council | US Department of Homeland Security Office of University Programs | Ohio Chamber of Commerce

2019: Critical Infrastructure Resilience Institute (CIRI), University of Illinois, Urbana-Champaign | Federal Emergency Management Agency (FEMA) | National Science Foundation (NSF) Grand Challenges Workshop, Purdue University | Frontiers in Resilience Symposium, George Mason University & Sandia National Laboratory

2018: John Glenn College of Public Affairs, Ohio State | Mount Carmel College (India) | Powering Tomorrow Workshop, Ohio State | Regional Science Academy, USC

2016: National Public Radio (NPR), All Sides with Ann Fisher | John Glenn School of Public Affairs, Dialogue Policy Forum | Compass Conference, Ohio State

2015: John Glenn School of Public Affairs, Dialogue Policy Forum | John Glenn School of Public Affairs, Ohio State | Knowlton School of Architecture, Ohio State

2014: Columbus Ohio Department of Public Health | John Glenn School of Public Affairs, Ohio State

2013: Battelle Center for Science & Technology Policy, Ohio State

2012: Department of Agricultural, Environmental & Development Economics (AEDE), Ohio State | John Glenn School of Public Affairs, Ohio State

2011: USC Center for Risk & the Economic Analysis of Terrorism Events (CREATE), USC

2010: School of Policy, Planning & Development (SPPD), USC | University of Muenster (Germany) | CENTRA Technology

2009: Freie University Berlin (Germany)

TEACHING FIELDS

Energy Policy | Environmental Policy | Public Policy Analysis | Public Sector Economics (Micro) | Risk & Decision Analysis | Graduate Capstone (Thesis)

TEACHING

(D) Course Developed, (T) Course Taught, (R) Course Revised

The Ohio State University

Graduate Courses:

Public Sector Economics & Applied Policy Analysis Capstone (PA 7920) (D, T)
Energy & Environmental Policy Capstone (PA 7910) (D, T)
Graduate Capstone Research Paper (PA 7900) (T)
Public Sector Economics (PA 6030) (T)
Risk & Decision Analysis (PA/CRP 5880) (D, T)
Risk & Decision Analysis (PA 5770) (Online) (D, T)
Environmental & Energy Policy (PA 5800) (D, T)

Undergraduate Courses:

Environmental & Energy Policy (PA 5800) (D, T)
Policy Evaluation (PA 4000) (D)
Public Policy Analysis (PA 3000) (D, T, R)

Chaffey College

Undergraduate Courses:

American Government (PolSci 1) (T)

Mt. San Jacinto College

Undergraduate Courses:

American Government (PolSci 100) (T)

STUDENT AND PEER ADVISING

Student Academic or Thesis Advising:

*Indicates primary advisor/chair

Alfredo Roa-Henriquez* | Benjamin Kasper* | Blain Morin* | Brady Aneshansel* |
Javier Livio | Jenny Brodie | Michael Farren | Rachel Williams | Thomas Saylor |
Travis Shaul | Victoria Osei-Ahenkan* | Vishavdeep Sharma | William Welch |
Yiseon Choi* | Yufan Ji | Zhongnan Jiang

Faculty and Postdoctoral Scholar Advising:

Nikita Makarchev | Zhenhua Chen

Students Funded and Supervised:

Alfredo Roa-Henriquez | Anthony Fasano | Antonio Gil DeRubio Cruz | Asher
Carr-Chellman | Bethany Gray | Blain Morin | Cillian Cao | Drew Flanagan | Gabriel
Englander | Geethasri Devarajan Shanmugam | George Oteng | Grace Koenig | Isabel
Carino-Bazan | Jaziel Cortez | Kathryn Diana | Kim Young | Lisa Weller | Manuela
Romero Melzner | Matthew Pesavento | Ruhaima Abudu | Shadie Mirib | Shuai Cao |
Siyu Liu | Stephanie Pedron | Victoria Osei-Ahenkan | Vishavdeep Sharma | William
Welch | Yiseon Choi | Yufan Ji | Zejun Li | Zhongnan Jiang

High School Students Mentored in Research:

Asma Diallo | Enoch Chung | Lahari Donepudi

SOFTWARE

Supply-Demand Network Business Resilience Calculator (SDN-BRC)
[In development]

- Utility: Sponsored by DARPA. Decision support software application for business & government to support effective supply-chain resilience planning & response.
- Forthcoming at: www.resiliencecalculator.com

Business Resilience Calculator (BRC)

- Utility: Decision support software application for business & government to support effective resilience planning & response.
- Available at: www.resiliencecalculator.com

Ohio Electricity Bill Cross Subsidy Calculator (in cooperation with the Ohio Center for Investigative Journalism & journalist Lucia Walinchus).

- Utility: Interactive Tableau application for calculating cross subsidies on your Ohio Electric bill.
- Archived at: <https://www.canarymedia.com/articles/enn/calculate-your-utility-bill-how-deregulation-affects-ohio-electricity-charges>

Pollution Permit Consignment Auction Human Experiment Software

- Utility: Lab experiment software. Zurich Toolbox for Readymade Economics Experiments (Z-TREE) application for conducting Coasian auction market experiments utilizing a consignment mechanism.

Oligopsony 1.0

- Utility: Windows-based (C# .NET 3.0) stochastic Monte Carlo simulation environment for simulating market power in uniform price auctions.

Simultaneous Energy-Emissions Market Experiment Software

- Utility: Zurich Toolbox for Readymade Economics Experiments (Z-TREE) application for conducting energy-emissions market experiments, Control & Experimental Treatments.

AWARDS

Editor’s Choice Award <i>Natural Hazards Review (ASCE)</i>	2021
Economic Analysis Award (Inaugural Recipient) <i>Regional Economic Models, Inc. (REMI)</i>	2012
Henry Reining Jr. Award, Best Dissertation in Public Policy <i>University of Southern California (USC)</i>	2012
Excellence in Publication Award <i>University of Southern California (USC)</i>	2012

PEER REVIEW

Center External Reviewer: U.S. Department of Homeland Security National Center of Excellence—Maritime Security Center | U.S. Department of Homeland Security National Center of Excellence—National Counterterrorism Innovation, Technology, and Education Center (NCITE)

National Science Foundation Panels: Environmental Sustainability | Strengthening American Infrastructure (SAI)

Journal and Book Peer-Referee: Bulletin of the American Meteorological Society (BAMS) | Canadian Journal of Economics | Earthquake Spectra | Eastern European Economics | J. of Critical Infrastructure Policy | J. of Economic Education | Economic Modelling | Economics of Disasters & Climate Change | Energy Economics | Environment, Systems and Decisions | The Electricity Journal | The Energy Journal | Energy Policy | International Journal of Disaster Risk Reduction | International Journal of Production Economics | Journal of Public Policy | Journal of Public Administration Research & Theory | Natural Hazards Review | Oxford Press | Proceedings of the National Academy of Sciences (PNAS) | Risk Analysis | Journal of Regional Science | Norton Press | Science & Public Policy | Utilities Policy

MEDIA

10 TV News (WBNS) (Television)—Ohio (2025)
ABC (WSYX) News (Television/Online)—Columbus, Ohio (2025, 2022)
Akron Beacon Journal (Print/Online)—Regional (2024)
American Prospect Magazine (Online)—National (2026)
Association of American Universities (Online)—National (2020)
Athens Messenger (Online)—Regional (2025)
Baltimore Sun (Print/Online)—Maryland (2026)
Business First (Online)—Regional (2024)
Business Journal Daily (Online)—Regional (2025)
Cincinnati City Beat (Online)—Ohio (2026)
Cincinnati Enquirer (Print/Online)—Ohio (2026, 2024, 2022)
Cincinnati Local 12 News (WKRC) (Television)—Ohio (2025)
Cincinnati Public Radio (Radio)—Regional (2021)
Cleveland Plain Dealer (Print/Online)—Cleveland, Ohio (2025 three times, 2023, 2022, 2017, 2015)
Cleveland Scene (Online)—Cleveland, Ohio (2026, 2025, 2021)
Cleveland ABC News Channel 5 (Television)—Ohio (2025)
Columbus Business First (Print/Online)—Ohio (2025, 2024)
Columbus Dispatch (Print/Online)—Columbus, Ohio (2024*, 2022, 2021, 2015)

*Appearing on Front Page, Above the Fold (12/31/2024)

Columbus Morning News—AM 610 WTVN, The Mike Elliott Show (Radio)—Regional (2026, 2025)
Crain's Cleveland Business (Print/Online)—National (2026, 2025, 2022, 2020)
Dayton Daily News (Print/Online)—Ohio (2026)
Fox 28 Columbus (Television)—Ohio (2022)
Gannett News Service (Print/Online)—National (2018)
Govplan.com (Online)—National (2017)
INC. Magazine (Print/Online)—National (2025)
Loveland Magazine (Print/Online)—Ohio (2020)
Market Business News (Online)—Regional (2024)
Midwest Energy News (Online)—Midwest U.S. (2021, 2020, 2019, 2018, 2017, 2016)
MSN (Print/Online)—National (2026 two times; 2025)
NBC News (Online)—National (2023, 2014)
NBC (WCMH) News (Television)—Columbus, Ohio (2025, 2023, 2014)

NBC5 Chicago (Television/Online)—Chicago, Illinois (2026 two times)
 Newark Advocate (Print/Online)—Ohio (2019)
 Newsweek (Print/Online)—National (2025)
 NPR-WOSU (Radio/Online)—Ohio (2025 two times, 2023, 2016)
 NPR-WYSO (Radio/Online)—Ohio (2025, 2021)
 Ohio Capital Journal (Online)—Ohio (2026 two times, 2025)
 Ohio Citizen Action (Online)—Ohio (2017)
 Ohio Center for Investigative Journalism (Online)—Ohio (2020)
 Ohio State University News—Ohio (2026, 2025, 2024, 2022, 2021, 2020)
 PBS Statehouse News Bureau’s State of Ohio Show with Karen Kasler
 (Television)—Ohio (2026, 2025)
 People’s Defender (Online)—National (2022)
 Philadelphia Inquirer (Print/Online)—Pennsylvania (2026)
 Press & Sun Bulletin (Print/Online)—New York State (2017)
 Public News Service (Radio)—National (2025)
 RealClearPennsylvania.com (Online)—Pennsylvania (2026)
 Science Daily (Online)—National (2021)
 Seattle Post Intelligencer (Print/Online)—Seattle, Washington (2026, 2013)
 Spectrum News (Television)—Ohio (2024, 2016)
 Springfield News Sun (Print/Online)—Regional (2024)
 Straight Arrow News (Online)—National (2025 two times)
 S&P Global (Online)—National (2019, 2017)
 TBS eFM (Radio)—National (Korea) (2015)
 The Conversation (Online)—National (2026)
 The Regulatory Review (Online)—National (2017)
 The Ohio Register (Online)—Ohio (2025)
 Toledo Legal News (Online)—Regional (2025)
 UtilityDive (Online)—National (2018, 2017)
 USA Today (Print/Online)—National (2024)
 Yahoo News (Online)—National (2026, 2025)

FEATURED IN RADIO DOCUMENTARIES

NPR-WOSU. Documentary Series on Ohio’s House Bill 6 and Associated Corruption Cases. [The Power Grab: Market Manipulation](#). Host: Renee Fox. Original Air Date: December 4, 2023.

NPR-WOSU. Documentary Series on Ohio’s House Bill 6 and Associated Corruption Cases. [The Power Grab: Dark Money](#). Host: Renee Fox. Original Air Date: November 27, 2023.

COMMITTEE SERVICE & ADVISORY

Service to Ohio State University

- Office of Post-Doctoral Affairs: Review Committee for President’s and Post-Doctoral Scholars (PPSP) Fellowship Program (2024)
- Provost’s Sustainability Education Visioning Committee (2023-2024)

- Sustainability Institute Exploratory Research Group (ERG) Co-Lead—Grid of the Future: Renewables & Storage (2021-2022)
- Energy Innovation Center (EIC) Faculty Advisory Committee (2020-2022)
- Sustainability Education Leadership Committee (SELC) (2019-2024, 2025-2026)
- Comprehensive Energy Management Faculty Advisory Committee (2014-2017)
 - * [\\$1.1Billion Energy Concession Agreement](#).
 - * For summary, see publication #20 ([Dormady, Jones, Roe & Rub 2019](#)).
- Sustainability Curriculum Committee (2014-2016)

Service to John Glenn College of Public Affairs

- Diversity, Equity & Inclusion Committee (2019-2021)
- Undergraduate Curriculum Committee (2025-2026)
- Undergraduate Policy Paper Award Committee (2020-2021, 2025-2026)
- Undergraduate Science, Engineering & Public Policy Minor Committee (2020-2024, 2025-2026)
- Budget & Strategic Planning (2018-2019, 2024-2025)
- Graduate Studies/Curriculum Committee (2017-2019, 2021-2022)
- Wellness Committee (2018-2019)
- Rewards & Recognition Committee (2017-2018)
- Robert Backoff Research Award Committee (2012-2016, 2018, 2024-2025)
- Masters Examination Review Committee (2014, 2016-2017, 2018, 2022)
- Glenn College Faculty Search Committee (2016-2017)
- Curriculum Development Committee: Program Evaluation & Public Policy Analysis (2013)
- (Ad hoc) Appointment, Promotion & Tenure (APT) Review (2014-2015)
- School of Environment & Natural Resources Search Committee (2014-2015)
- Discovery Themes Research Advisory Committee (2014-2015)

Student Club Advising

- Advisor, OSU Hope Worldwide Club (2019-2023)