

Nicholas H. Roy

LinkedIn : [linkedin.com/in/nicholashroy](https://www.linkedin.com/in/nicholashroy)

Website : nicholasroy.me

NicholasH.Roy@gmail.com

Roy@rff.org

EDUCATION	2020	California State University Long Beach , Magna Cum Laude <i>B.S. in Applied Mathematics</i> <i>B.A. in Mathematical Economics and Economic Theory</i> <i>Minor: Philosophy</i>	GPA: 3.94/4.00
RESEARCH	2024-2025	<i>Research Associate</i>	Resources for the Future
EXPERIENCE	2023	<i>Senior Research Analyst</i>	Resources for the Future
	2021-2022	<i>Research Analyst</i>	Resources for the Future
	2020	<i>Research Assistant</i>	Resources for the Future
	2019-2020	<i>Research Assistant</i>	Center for International Trade and Transportation California State University Long Beach
	2019	<i>Research Intern</i>	Resources for the Future
TEACHING	2018-2019	<i>Peer Mentor and Tutor</i>	California State University Long Beach, College of Natural Science and Mathematics
PEER REVIEWED	2025	Lohawala N., Linn J., Bioret L., DeAngeli E., Roy N. , Spiller E. "A Retrospective Analysis of Heavy-Duty Vehicle Tailpipe Nitrogen Oxides Emissions Standards" <i>Transportation Research Part D Transport and Environment</i> (link) <i>RFF Working Paper</i> (link)	
JOURNAL			
ARTICLES			
	2025	Peng W., Anenberg S., Bistline J., Budolfson M., Constantino S. M., Crawford K., Davis K., DeCarlo P., Fawcett A., Hashimoto H., Helgeson C., Huang X., Iyer G., Keller K., Kennard H., Kennedy K.M., Laumbach R., Limaye V.S., Mayfield E., McFarland J., Meyer M., Miller P., Place A., Roy N. , Schell C., Scovronick N., Smith S.J., Srikrishnan V., Vorhees D., Xie Y. "Seizing the policy opportunities for health- and equity- improving energy decisions", <i>One Earth</i> (Cell Press link) <i>Science</i> (link)	
	2025	Bistline J., Bergman A.m Blanford G., Brown M., Burtraw D., Domeshek M., Fawcett A., Hamilton A., Iyer G., Jenkins J., King B., Kolus H., Levin A., Luo Q., Rennert K.,Robertson M., Roy N. , Russel E., Shawhan D., Steinberg D., van Brummen A., Van Horn G., Venkatesh A., Weyant J., Wiser R., Zhao A. "Impacts of EPAs finalized power plant greenhouse gas standards", <i>Science</i> (link) (Open Access Link)	
	2024	Bistline J., Brown M., Domeshek M., Marcy C., Roy N. , Blanford G., Burtraw D., Hamilton A., Farbes J., Fawcett A., Jenkins J., Jones R., King B., Kolus H., Larsen J., Levin A., Mahajan M., Mayfield E., McFarland J., McJeon H., Orvis R., Patankar N., Rennert K., Roney C., Schivley G., Steinberg D., Victor N., Wenzel S., Weyant J., Wiser R., Yuan M., Zhao A. "Power Sector Impacts of the Inflation Reduction Act of 2022", <i>Environmental Research Letters</i> (link)	

**RESEARCH
REPORTS /
WORKING
PAPERS**

- 2023 Bistline J., Blanford G., Brown M., Burtraw D., Domeshek M., Farbes J., Fawcett A., Hamilton A., Jenkins J., Jones R., King B., Kolus H., Larsen J., Levin A., Mahajan M., Marcy C., Mayfield E., McFarland J., McJeon H., Orvis R., Patankar N., Rennert K., Roney C., **Roy N.**, Schivley G., Steinberg D., Victor N., Wenzel S., Weyant J., Wiser R., Yuan M., Zhao A.
"Emissions and Energy Impacts of the Inflation Reduction Act",
Science ([link](#)) ([Open Access Link](#))
- 2025 **Roy N.**, Russo S., Burtraw D.
"Considerations for Washingtons Linkage Negotiations with California and Qubec",
Resources for the Future ([link](#))
- 2025 Burtraw D., Palmer K., **Roy N.**
"Policy Opportunities for Achieving Marylands Clean Energy Goals",
Resources for the Future Working Paper ([link](#))
- 2024 Toman M., Krupnick A., Russo S., Burtraw D., Holmes B., **Roy N.**
"Developing a Carbon Dioxide Removal Program in California", *Resources for the Future Working Paper* ([link](#))
- 2024 Rennert K., Bergman A., **Roy N.**, Domeshek M., Shih J., Linn J., Burtraw D., Palmer K.
"Carbon Scoring: An Initial Baseline", *Resources for the Future* ([link](#))
- 2024 **Roy N.**, Domeshek M., Burtraw D.
"Designing for Uncertainty: Amendments to California's Cap-and-Trade Market",
Resources for the Future ([link](#))
- 2023 Burtraw D., **Roy N.**
"How Facility-Specific Emissions Caps Affect the California Carbon Market?",
Resources for the Future ([link](#))
- 2022 **Roy N.**, Domeshek M., Burtraw D., Palmer K., Rennert K., Shih J., Villanueva S.
"Beyond Clean Energy: The Financial Incidence and Health Effects of the IRA",
Resources for the Future ([link](#))

ISSUE BRIEFS

- 2025 **Roy N.**, Burtraw D.
"Promoting Energy Affordability Using State Climate Policy",
Resources for the Future ([link](#))
- 2025 Burtraw D., **Roy N.**
"Offset Reform Could Drive Investments in Nature-Based Climate Solutions",
Resources for the Future ([link](#))
- 2025 **Roy N.**, Palmer K.
"Hidden Costs of Repealing EPAs Carbon Pollution Standards: Consequences for the Environment, Households, and Society", *Resources for the Future* ([link](#))
- 2025 Bergman A., Peplinski M., Rennert K., **Roy N.**
"Projected Impacts of Repealing the Section 45Y and 48E Technology-Neutral

Clean Electricity Tax Credits”, *Resources for the Future* ([link](#))

- 2025 Burtraw D., **Roy N.**
”Harnessing Carbon Value to Lower Costs in California”,
Resources for the Future ([link](#))
- 2024 **Roy N.**, Burtraw D.
”Same Emissions Budget, Different Program Revenues: Revenue Implications
from California Cap-and-Trade Amendments”, *Resources for the Future* ([link](#))
- 2022 **Roy N.**, Rennert K., Burtraw D.
”Retail Electricity Rates under the Inflation Reduction Act of 2022”,
Resources for the Future ([link](#))
- 2021 **Roy N.**, Burtraw D., Rennert K.
”Cost Analysis and Emissions Projections under Power Sector Proposals in
Reconciliation”, *Resources for the Future* ([link](#))
- 2021 Hafstead M., Look W., **Roy N.**, Palmer K., Linn J., Rennert K.
”Emissions Projections under Alternative Climate Policy Proposals”,
Resources for the Future ([link](#))
- 2021 Look W., Palmer K., Burtraw D., Linn J., Hafstead M., Domeshek M., **Roy N.**,
Rennert K., Gillingham K., Xiahou Q.
”Emissions Projections for a Trio of Federal Climate Policies”,
Resources for the Future ([link](#))
- BLOG POSTS /**
EDITORIAL
- 2025 **Roy N.**, Dolphin G.
”State Carbon Prices Are Here to Stay”,
Resources for the Future ([link](#))
- 2025 Peplinski M., **Roy N.**
”If/Then: Unintended Effects of Recent Federal Actions on Electricity Prices”,
Resources for the Future ([link](#))
- 2025 Burtraw D., **Roy N.**, Palmer K.
”Three Policy Options for Maryland to Achieve Its Decarbonization Goals via the
Electricity Sector”,
Resources for the Future ([link](#))
- 2024 Domeshek M., **Roy N.**
”How Much Will the Inflation Reduction Act Reduce Emissions?”,
Resources for the Future ([link](#))
- 2023 **Roy N.**, Burtraw D.
”Californias Cap-and-Trade Program and Improvements in Local Air Quality”,
Resources for the Future ([link](#))
- 2023 Bergman A., Krupnick A., Linn J., Lohawala N., Newell R.G., Palmer K., Raimi D.,
Roy N., Spiller B.
”What Have We Learned About the Inflation Reduction Act, One Year After the

		Laws Passage?”, <i>Resources for the Future</i> (link)
	2021	Pesek S., Roy N. , Robertson M., Pizer W., Tung S., Prest B.C., Walls M.A. ”Celebrating Nature with #MyResources”, <i>Resources for the Future</i> (link)
	2021	Cleary K., Hafstead M., Krupnick A., Linn J., Look W., Palmer K., Raimi D., Rennert K., Roy N. , Wibbenmeyer M. ”Under Construction: The Build Back Better Act”, <i>Resources for the Future</i> (link)
PUBLIC COMMENTS	2025	Palmer K., Prest B., Linn J., Rennert K., Bergman A., Krupnick A., Roy N. , Peplinski M. ”Comment on the Repeal of Greenhouse Gas Emissions Standards for Fossil Fuel-Fired Electric Generating Units” <i>Resources for the Future</i> (link)
	2024	Burtraw D., Roy N. , Russo S. ”Comments on the Cap-and-Invest Linkage Rulemaking” <i>Resources for the Future</i> (link)
	2024	Roy N. , Burtraw D. ”Comments on Potential Amendments to California’s Cap-and-Trade Regulation” <i>Resources for the Future</i> (link)
	2024	Roy N. , Domeshek M., Burtraw D. ”Comments on Potential Amendments to California’s Cap-and-Trade Regulation and the Standard Regulatory Impact Assessment (SRIA)” <i>Resources for the Future</i> (link)
	2023	Roy N. , Burtraw D., Domeshek M. ”Comments on the Joint California-Quebec Workshop: Potential Amendments to the Cap-and-Trade Regulation” <i>Resources for the Future</i> (link)
	2023	Burtraw D., Roy N. ”Comments to the California Air Resources Board on Implementing Facility-Specific Caps in the California Cap-and-Trade Program” <i>Resources for the Future</i> (link)
	2022	Robertson M., Burtraw D., Roy N. , Domeshek M., and Palmer K. ”Defining the Financial Benefits of Renewable Facilities Placed in Connection with Low-Income Communities” <i>Resources for the Future</i> (link)
PROGRAMMING SKILLS	Advanced Skills:	Python, GAMS, Stata, R
	Proficient Skills:	LaTeX, Matlab, SPSS, HTML
	AI Research Tools:	ChatGPT, Microsoft Copilot, Nature Research Assistant (beta)
FIELDS OF INTEREST		Energy Economics, Power Systems Modeling, Industrial Organization, Operations Research, Climate Policy, Public Economics, International Economics, Political Economy

PRESENTATIONS	Florence School of Regulation: Ex-Ante Modelling of Emissions Trading	July 2025
	National Association of Clean Air Agencies (NACAA)	May 2025
	Washington Environmental Justice Council (Virtual)	January 2025
	Association of Environmental and Resource Economists (AERE)	May 2024
	California Environmental Justice Advisory Council (California EJAC)	October 2023
	Environmental Resource Management Clean Energy Group	October 2022
	California State University Statewide Student Research Competition (Virtual)	April 2020
	Pacific Southwest Emerging Transportation Scholars Research Symposium	March 2020
	CSU Long Beach Student Research Competition	February 2020
	International Urban Freight Conference, Long Beach, CA	October 2019
	CSU Long Beach Economics Department Research Poster Competition	May 2019
HONORS AND AWARDS	Distinguished Undergraduate in Mathematical Economics and Economic Theory	2020
	Department Honors for Department of Mathematics and Statistics	
	First Place at CSULB Student Research Competition	
	University Transportation Center Undergraduate Student of the Year for the Pacific Southwest Region	2019
	Intermodal Association of North America (IANA) Scholarship and Research Grant	
	Beach Promise Scholarship	
	Ray and Marge Lancaster Scholarship	
	Best Visuals at CSULB Economics Research Poster Competition	
	Phi Kappa Phi Honor Society	2018
	Ray and Marge Lancaster Scholarship	
ACADEMIC AND SERVICE ACTIVITIES	Artificial Intelligence Working Group	2025
	President and Organizer of CSULB Economics Mentorship Program	2022-2023
	Organizer of Resources for the Future's Junior Staff Seminar Series	2022-2023
	Chair of Youth Outreach Team, Citizens Climate Lobby, South Bay Chapter	2019-2020
	Long Beach Regional Economic Forum Volunteer	2019
	Volunteer Event Organizer for St. Baldricks Fundraiser at CSULB	2019
	Vice President of CSULB Economics Student Association (Spring)	2019
	Member of Omicron Delta Epsilon Economics Honor Society, CSULB Chapter	2018-2019
	President of CSULB Economics Student Association	2018
GRADUATE COURSEWORK	Economics: Econometrics I, Research Methods, Microeconomic Theory	
	Math & Statistics: Calculus of Variations, Regression Analysis, Mathematical Optimization	
MEDIA INTERVIEWS	Carbon Pulse Interview (2025): <i>WCI emissions containment reserve getting long-deserved recognition with new proposal</i> (link)	
	Wisconsin Public Radio (2025): <i>How carbon fees could lower energy bills</i> (link)	
	In Focus (2025): <i>State Level Carbon Pricing</i> (link)	
	In Focus (2025): <i>Climate Policies to Look Forward to in 2025</i> (link)	
	Resources Radio (2023): <i>How Much Will the Inflation Reduction Act Reduce Emissions?</i> (link)	
	In Focus (2023): <i>Causes for Climate Optimism</i> (link)	
	Bloomberg (2022): <i>Climate Bill Targets Transmission to Unjam Clean Energy Backlog</i> (link)	

POLITICO (2022): *Report maps how climate bill would cut power costs, CO2* ([link](#))

Resources Radio (2022): *70 Years of RFF: Looking Ahead with Young Economists
at Resources for the Future* ([link](#))

Axios (2021): *Democrats' clean power outlook is very muddy* ([link](#))