

RACHEL MARIE YOUNG

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EDUCATION

Princeton University <i>Ph.D., Science Technology and Environmental Policy</i> School of Public and International Affairs	2023
Princeton University <i>M.A., Science Technology and Environmental Policy</i> School of Public and International Affairs	2020
University of California, Berkeley <i>M.P.P.</i> Goldman School of Public Policy Smolensky Prize for Outstanding Advanced Policy Analysis (<i>nominated</i>)	2017
Lewis & Clark College <i>B.A., Environmental Studies</i> Environmental Studies Tripod Award; Student Academic Affairs Grant Recipient; Alumni Leadership Scholar	2011

ACADEMIC APPOINTMENT

University of California, Berkeley <i>S.V. Ciriacy-Wantrup Postdoctoral Research Fellow</i>	Jan 2024 –
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AFFILIATION

Princeton University <i>School of Public and International Affairs, Affiliated Postdoctoral Fellow</i>	Jan 2024 –
U.S. Department of Housing and Urban Development <i>Office of Policy Development and Research, Research Volunteer</i>	Sep 2023 –
University of California, Berkeley <i>Global Policy Lab, Associate Doctoral Fellow</i>	May 2022 – Dec 2023
White House Executive Office of the President <i>Council on Environmental Quality, Intern</i>	Jan 2022 – May 2022

RESEARCH EXPERIENCE

Institute for Research on Labor and Employment, University of California Berkeley <i>Research Data Analyst</i>	Jul 2017 – Jul 2018
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Collaborated on the development and application of analytical methodologies for research studies. Cleaned and prepared data sets, primarily from government sources, for analysis, on a remote linux server using Stata. Summarized program and administrative data; implemented statistical evaluation approaches. Highlighted and communicated research findings by preparing figures, and tables.

USAID Global Development Fellowship Program <i>University of Pretoria Research Fellow</i>	May 2016 – Sep 2016
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Led a 3-month research project in collaboration with the Department of Economics and Management Sciences. Designed and conducted interview-based qualitative research of top 100 JSE companies environmental and sustainability strategies and their collaborations with the South African national and provincial governments. Proposed recommendations on program efficiency for South African Department of Environmental Affairs.

American Jobs Project, University of California Berkeley <i>Graduate Student Researcher</i>	Sep 2015 – May 2017
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Led research on clean energy industry and policy opportunities to create jobs in Ohio and West Virginia. Conducted interview-based qualitative research to inform analysis and policy recommendations for states. Prepared briefings and similar materials for use by state governments on green technology enabling policy.

American Council for an Energy-Efficient Economy (ACEEE)

Sep 2011 – May 2015

National Policy Senior Research Analyst, 2014-2015; National Policy Research Analyst, 2013-2014; National Policy Research Assistant, 2012-2013; Assistant to the Directors, 2011-2012

Conducted quantitative and qualitative research on national, state, and local energy efficiency policies and programs. Managed and collaborated with teams on research reports on topics including, international energy efficiency policy, energy efficiency as a mechanism to reduce air pollution, and the water-energy nexus. Researched and authored/coauthored 13 research reports, 4 white papers, 2 journal articles, 20 fact sheets, 25 presentations and other materials on energy efficiency in the above research topic areas. Frequently represented the organization by presenting at conferences and on webinars on topics related to energy efficiency policies and programs. Performed administrative duties including, coordinating and reviewing applications for the ACEEE internship program, and attending meetings with members of Federal Agencies and Congressional Staff.

Breakthrough Institute

Jun 2010 – Aug 2010

*Energy and Climate Fellow***PEER-REVIEWED PUBLICATIONS**

Wilson, Katie, Jane Baldwin, and Rachel Young. 2022. “Estimating Tropical Cyclone Vulnerability: A Review of Different Open-Source Approaches.” In: Collins, J.M., Done, J.M. (eds) Hurricane Risk in a Changing Climate. Hurricane Risk, vol 2. Springer, Cham. https://doi.org/10.1007/978-3-031-08568-0_11

Nadel, Steven and Rachel Young. 2014. “Why Is Electricity Use No Longer Growing?” September 2014 Issue. *Public Utilities Fortnightly*. Reston, VA: Public Utilities Fortnightly.

Hayes, Sara and Rachel Young. 2012. “Reducing the Cost of Environmental Regulations: Energy Efficiency as an Air Quality Compliance Mechanism.” Volume XXIV Issue 4. *The Georgetown International Environmental Law Review*. Washington D.C.: Georgetown University.

SELECT WORKING PAPERS

Young, Rachel and Solomon Hsiang. 2023. “The Impact of the Tropical Cyclone Climate on Mortality in the United States.” (*accepted, Nature*)

Young, Rachel, Katie Kolonder and Michael Oppenheimer. “Natural Disaster Impacts on Internal Migration: A Multi-Spatial and Temporal Analysis.” *Presented at 2023 Managed Retreat Conference, Habitability and Mobility in an Era of Climate Change*, Columbia University, New York, New York. (*in prep.*)

Young, Rachel. 2022. Who Benefits from Flood Hazard Property Buyouts? Program Evaluation Using Big Data. *Presented at APPAM Fall 2022 Conference*. Washington D.C. <https://www.appam.org/conference-events/fall-research-conference/cross-disciplinary-perspectives>. (*in prep.*)

SELECT RESEARCH REPORTS

Collins, Mary, Stephanie Smith, Kate Ringness, Henry Love, Rachel Young, AJ Hermann, Tiffany Wong, Peter Florin, Rob Moore, Nimit Dhir, and Amanda Brief. 2016. “Ohio Jobs Project: A Guide to Creating Advanced Energy Jobs.” Berkeley, CA: American Jobs Project.

Young, Rachel, Chetana Kallakuri, Sarah Hayes. 2015. “2015 International Scorecard Self-Scoring Tool.” Washington D.C.: American Council for an Energy-Efficient Economy.

Young, Rachel and Sara Hayes. 2015. “The State and Utility Pollution Reduction (SUPR) Calculator.” Research Report E1501. Washington D.C.: American Council for an Energy-Efficient Economy.

Young, Rachel. 2015. “A Survey of Energy Use in Water Companies.” White Paper. Washington D.C.: American Council for and Energy-Efficient Economy.

Young, Rachel, Sara Hayes, Meegan Kelly, Shruti Vaidyanathan, Sameer Kwatra, Rachel Cluett, and Garrett Herndon. 2014. “2014 International Energy Efficiency Scorecard.” Research Report E1402. Washington D.C.: American Council for an Energy-Efficient Economy.

Young, Rachel. 2013. “Saving Water and Energy: Helping Utilities Build Better Programs.” Research Report E13H. Washington D.C.: American Council for an Energy-Efficient Economy.

Young, Rachel and Eric Mackres. 2013. "Tackling the Nexus: Exemplary Programs that Save Both Energy and Water." Research Report E131. Washington D.C.: American Council for an Energy-Efficient Economy.

Young, Rachel, Sara Hayes, Steven Nadel, Garrett Herndon, and Jim Barrett. 2013. "Economic Impacts of the Energy Efficiency Provisions in the Energy Savings & Industrial Competitiveness Act of 2013 and Select Amendments." White Paper. Washington D.C.: American Council for and Energy-Efficient Economy.

Hayes, Sara, Rachel Young, Michael Sciortino. 2012. "The ACEEE 2012 International Energy Efficiency Scorecard." Research Report E12A. Washington D.C.: American Council for an Energy-Efficient Economy.

Young, Rachel, R. Neal Elliott, Martin Kushler. 2012. "Saving Money and Reducing Risk: How Energy Efficiency Enhances the Benefits of the Natural Gas Boom." White Paper. Washington D.C.: American Council for and Energy-Efficient Economy.

Hayes, Sara and Rachel Young. 2012. "Energy Efficiency: The Slip Switch to a New Track Toward Compliance with Federal Air Regulations." Research Report E122. Washington D.C.: American Council for an Energy-Efficient Economy.

TEACHING EXPERIENCE

Princeton University

Sep 2019 – Jun 2021

Assistant Instructor

GEO366 *Climate Change: Impact, Adaptation, Policy* (undergraduate)

POL345 *Introduction to Quantitative Social Science* (undergraduate)

ENV200 *Environmental Nexus Course* (undergraduate)

University of California, Berkeley

Jun 2019 – Aug 2019

Lecturer and Teaching Assistant

Microeconomics *Public Policy and International Affairs Junior Summer Institute* (undergraduate)

SELECT PRESENTATIONS

- Disaster Resilience Seminar, University of Maryland (2023)
- Environmental Economics and Policy Conference, Federal Reserve Bank of New York & Columbia University (2023)
- National Bureau of Economic Research (NBER) EEE Summer Institute (egg timer) (2023)
- Managed Retreat Conference, Columbia University (2023)
- Association for Public Policy Analysis & Management (APPAM) Fall Conference (2022)
- Seminar on Planetary Management, Columbia University (2022)
- Guest Lecture, Rutgers University (2022)
- Student Dinners, Princeton Energy and Climate Scholars, Princeton University (2020 & 2022)
- STEP-HMEI Student Research Seminar, Princeton University (2019, 2020, 2022, & 2023)
- Department of Environmental Affairs, South Africa (2016)
- WaterSmart Innovation Conference (2013 & 2014)
- IFC International ESCOs Conference, in South Africa (2014)
- ACEEE Building Energy Efficiency Summer Study (2012 & 2014)
- Western Conference of Public Service Commissioners (2014)
- NARUC Winter Conference (2013)
- World Bank BBL Event, Measuring national energy efficiency performance (2013)
- Alliance for Water Efficiency, Water-Energy Nexus Programs Webinar (2013)
- National Academy of Sciences, Board on Energy and Environmental Systems (2013)
- USGBC 10th Annual Water Conservation Showcase (2013)

GRANTS

Large-Scale Grant, Initiative for Data-Driven Social Science, Princeton University

SELECT LEADERSHIP

High Meadows Environmental Institute, Summer Internship Mentor (2021); Princeton Energy and Climate Scholars (2020-2022); CEREAL Seminar, Co-Organizer (2019); BEREC, Community Director (2015-2016); GSPP Environmental Policy Group, Co-Director (2015-2016); UNFCCC COP15 Delegation, Coordinator (2009-2010); Sierra Club, Director of Pacific Northwest SPROG (2008-2010)

REFEREE SERVICE

AGU GeoHealth Journal; Climatic Change; Environment and Development Economics; Proceedings of the National Academy of Sciences

MISCELLANEOUS

PhD Advisor: Michael Oppenheimer (School of Public and International Affairs & Geosciences, Princeton University)

Committee: Tatyana Deryugina (Finance, University of Illinois at Urbana-Champaign), Solomon Hsiang (Goldman School of Public Policy, UC Berkeley), Gabriel Vecchi (Geosciences, Princeton University), Owen Zidar (Economics, Princeton University)

Computing: R, Stata, ArcGIS, MATLAB, Adobe Suite, L^AT_EX, Microsoft Office, SAS

Citizenship: USA