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## Marc Andrew Christian Hafstead

Resources for the Future  
1616 P St NW  
Washington, DC 20036  
Email: [hafstead@rff.org](mailto:hafstead@rff.org)  
Phone: 202-328-5169

### Professional Experience

2019-Present: Fellow with Indefinite Appointment, Resources for the Future

2021-Present: Director, Climate Finance and Financial Risk Initiative, Resources for the Future

2017-Present: Director, Carbon Pricing Initiative, Resources for the Future

2013-2019: Fellow, Resources for the Future

2011-2013: Postdoctoral Fellow, Stanford Institute for Economic Policy Research, Stanford University.

### Education

Ph.D., Economics, Stanford University, 2011.

B.A. Mathematical Methods in the Social Sciences & Economics, Northwestern University, 2004.

### Book Publications and Reports

*Confronting the Climate Challenge: US Policy Options* (with Lawrence H. Goulder), New York: Columbia University Press, December 2017.

“Jobs and Environmental Regulation,” (with Robertson C. Williams III) in *Environmental and Energy Policy and the Economy*, eds. M. Kotchen, J. Stock and C. Wolfram, Cambridge, MA: NBER, 2019.

“An Analysis of Decarbonization Methods in Vermont” (with Wesley Look, Amelia Keyes, Joshua Linn, Dallas Burtraw, and Robertson C. Williams III), Washington, DC: RFF Report, January 2019.

“Decarbonizing Colorado: Evaluating Cap and Trade Programs to Meet Colorado’s Emissions Targets,” Washington DC: RFF Report, June 2020.

## **Journal Publications**

“Environmental Policy, Full Employment Models and Employment: A Critical Analysis,” (with Yunguang Chen and Roberton C. Williams III) *Journal of the Association of Environmental and Resource Economists*, Volume 9, Number 2, March 2022/

“Funding Inclusive Green Transition through Greenhouse Gas Pricing,” (with Thomas Sterner, Richard Carson, and more) *ifo DICE Report*, Volume 18, Issue 1, April 2020.

“Designing and Evaluating a U.S. Carbon Tax Adjustment Mechanism to Reduce Emissions Uncertainty,” (with Roberton C. Williams III) *Review of Environmental Economics and Policy*, Volume 14, Issue 1, February 2020.

“Impacts of a Carbon Tax across U.S. Household Income Groups: What Are the Equity-Efficiency Trade-Offs?,” (with Lawrence H. Goulder, GyuRim Kim, and Xianling Long) *Journal of Public Economics*, Volume 175, pages 44-64, July 2019.

“Using a Carbon Tax to Meet US International Climate Pledges,” (with Yunguang Chen) *Climate Change Economics*, Volume 10, Issue 1, February 2019.

“Unemployment and Environmental Regulation in General Equilibrium,” (with Roberton C. Williams III) *Journal of Public Economics*, Volume 160, pages 50-65, April 2018.

“The Sensitivity of CO<sub>2</sub> Emissions Under a Carbon Tax to Alternative Baseline Forecasts” (with Yunguang Chen and Lawrence H. Goulder), *Climate Change Economics*, Volume 9, Issue 1, March 2018.

“Policy Insights from the EMF32 Study on U.S. Carbon Tax Scenarios” (with Alexander Barron, Allen A. Fawcett, James R. McFarland, and Adele Morris), *Climate Change Economics*, Volume 9, Issue 1, March 2018.

“Adding Quantity Certainty to a Carbon Tax: The Role of a Tax Adjustment Mechanism for Policy Pre-Commitment,” (with Gilbert E. Metcalf and Roberton C. Williams III), *Harvard Environmental Law Review Forum* 41, pages 41-57, June 2017.

“Resolving the Inherent Uncertainty of Carbon Taxes: Introduction,” (with Joseph E. Aldy, Gilbert E. Metcalf, Brian C. Murray, William A. Pizer, Christina Reichert and Roberton C. Williams III), *Harvard Environmental Law Review Forum* 41, pages 1-13, June 2017.

“General Equilibrium Impacts of a Federal Clean Energy Standard,” (with Lawrence H. Goulder and Roberton C. Williams III), *American Economic Journal: Economic Policy*, Volume 8, Issue 2, pages 186-218, May 2016.

“Impacts of Alternative Emissions Allowance Allocation Methods under a Federal Cap-and-Trade Program” (with Lawrence H. Goulder and Michael Dworsky), *Journal of Environmental Economics and Management*, Volume 60, pages 161-181, November 2010.

## **Working Papers**

“Benefits of Energy Technology Innovation Part 2: Economy-wide Direct Air Capture Modeling Results” RFF Discussion Paper 20-20, December 2020.

“Mechanisms to Reduce Emissions Uncertainty under a Carbon Tax,” (with Roberton C. Williams III). RFF Discussion Paper 20-05, March 2020.

“The Effect of Climate Policies on Labor Markets in Developing Countries: Review of the Evidence and Directions for Future Research” (with Roberton C. Williams III, Alexander Golub, Siet Meijer, Badri G. Narayanan, Kevin Nyamweya, and Jevgenijs Steinbuks), World Bank Policy Research Paper, February 2018.

“What is the Economic Value of Improved Labor Market Outcomes from Infant Nutrition? The Case of Breastfeeding in the United States,” (with Randall Lutter) RFF Discussion Paper 16-29, July 2016. [Under review]

“Tax Reform and Environmental Policy: Options for Recycling Revenue from a Tax on Carbon Dioxide” (with Lawrence H. Goulder), RFF Discussion Paper 13-31, October 2013.

## **Research in Progress**

“Job Quality and the Distributional Effects of Environmental Policy” (with Roberton C. Williams III and Luis Fernandez Intriago).

“Distributional Effects of Environmental Regulation across Workers: A General Equilibrium Analysis,” (with Roberton C. Williams III).

“Pre-Existing Taxes and the Scope of Emissions Pricing: Broader isn’t always better,” (with Lawrence H. Goulder and Roberton C. Williams III).

## **Policy and Issue Briefs**

“Emissions Projections under Alternative Climate Policy Proposals” (with Wesley Look, Nicholas Roy, Karen Palmer, Joshua Linn, and Kevin Rennert). Resources for the Future, Issue Brief 21-13, September 2021.

“Emissions Projections for a Trio of Federal Climate Policies” (with Wesley Look, Karen Palmer, Dallas Burtraw, Joshua Linn, Maya Domeshek, Nicholas Roy, Kevin Rennert, Kenneth Gillingham, and Qinrui Xiahou), Resources for The Future, Issue Brief 21-02, April 2021.

“Emissions Projections for the Climate Leadership Council Carbon Dividends Plan, 2021”, Resources for The Future, Issue Brief 21-01, April 2021.

“Federal Climate Policy 102: Economy-Wide Policies.” Resources for the Future Explainer, March 2021.

“Carbon Tax Adjustment Mechanisms: How They Work and Lessons From Modeling” (with Susanne Brooks, Nathaniel Keohane, and Wesley Look), Resources for The Future, Issue Brief 20-08, August 2020.

“Carbon Pricing 106: Effects on Employment.” Resources for the Future Explainer, May 2020.

“Carbon Pricing 105: Effects on Human Health.” Resources for the Future Explainer, May 2020.

“Carbon Pricing 103: Effects across Sectors.” Resources for the Future Explainer, April 2020.

“Carbon Pricing 102: Revenue Use Options.” Resources for the Future Explainer, September 2019.

“Carbon Pricing 101.” Resources for the Future Explainer, June 2019.

“Policy Insights from Comparing Carbon Pricing Modeling Scenarios,” (with Alexander Barron and Adele Morris). Brookings Climate and Energy Economics Discussion Paper, May 2019.

“Projected CO2 Emissions Reductions under the American Opportunity Carbon Fee Act of 2019”, Resources for The Future, Issue Brief 19-02, April 2019.

“Considering a Carbon Tax-Gasoline Tax Swap: Projected Energy-Related US CO2 Emissions Reductions under the MARKET CHOICE Act.”, Resources for The Future, Issue Brief 18-08, July 2018.

“Analysis of Alternative Carbon Tax Price Paths for the Climate Leadership Council (CLC) Carbon Dividends Plan”, Resources for The Future, Issue Brief 18-07, June 2018.

“Projected CO2 Emissions Reductions under the American Opportunity Carbon Fee Act of 2017”, Resources for The Future, Issue Brief 17-09, July 2017.

“Macroeconomic Analysis of Federal Carbon Taxes” (with Lawrence H. Goulder, Raymond J. Kopp, and Robertson C. Williams III), Resources For The Future, Issue Brief 16-06, June 2016.

“Analysis of the American Opportunity Carbon Fee Act” (with Raymond J. Kopp), Resources For The Future, Issue Brief 15-01, March 2016.

“Carbon Taxes, the Federal Budget, and Climate Change,” Stanford Institute for Economic Policy Research *Policy Brief*, October 2011.

“Profit Impacts of Allowance Allocation under the American Clean Energy and Security (ACES) Act,” (with Lawrence H. Goulder and Michael Dworsky), Stanford University, September 2009.

“How Would a Federal Cap-and-Trade Climate Policy Affect Profits and GDP?” (with Lawrence H. Goulder and Michael Dworsky), Stanford Institute for Economic Policy Research *Policy Brief*, August 2009.