

CONTACT INFORMATION	1.970.219.5999 parthum.bryan@epa.gov bryanparthum.com Citizenship: USA	Mail Code 1809T 1200 Pennsylvania Avenue, N.W. Washington, DC 20004
POSITIONS	U.S. Environmental Protection Agency Senior Economist National Center for Environmental Economics Washington, D.C.	2022-present
	Previous Positions	
	Executive Office of the President of the United States Senior Economist (detail) Climate, Energy, Environment, and Science Branch Washington, D.C.	2023-2024
	U.S. Environmental Protection Agency Economist National Center for Environmental Economics Washington, D.C.	2020-2022
	Georgetown University Adjunct Professor of Economics Department of Economics Washington, D.C.	2022-2023
	Salisbury University - Salisbury, Maryland Adjunct Professor of Economics Department of Economics Washington, D.C.	2021-2022
EDUCATION	Ph.D., Economics University of Illinois at Urbana-Champaign, IL Dissertation: <i>Estimating Demand for Environmental Amenities, Now and Later</i>	2020
	M.S., Economics University of Illinois at Urbana-Champaign, IL Thesis: <i>Divesting from the Golden State: A Case Study of Local Foods Systems Using Propensity Score Matching Within Panel Data</i>	2015
	B.S., Economics Colorado State University, Fort Collins, CO Thesis: <i>Co-integration of Industry to Estimate Business Cycles, Developing Employment and Revenue Projections for the State of Colorado</i>	2013
FIELDS	Climate Economics Environmental and Resource Economics	Environmental Policy Applied Econometrics
REFEREED JOURNAL PUBLICATIONS	1. The social cost of greenhouse gases and its use in U.S. federal policy with Elizabeth Kopits, Wade Davis, Charles Griffiths, Alex Marten, Al McGartland, David Smith, and Elizabeth Spink. 2025. <i>Encyclopedia of Energy, Natural Resource, and Environmental Economics</i> . (ungated here) 2. The social costs of hydrofluorocarbons and the large climate benefits from their expedited phaseout with Tammy Tan and Lisa Rennels. 2024. <i>Nature Climate Change</i> . (ungated here)	

3. **Factors influencing customer participation in a program to replace lead pipes for drinking water** with Heather Klemick, Ann Wolverton, Kristin Epstein, Sandra Kuting, and Sarah Armstrong. 2024. *Journal of Environmental and Resource Economics*. (ungated here)
4. **Advancing the estimation of future climate impacts within the United States** with Corinne Hartin, Erin McDuffie, Karen Noiva, Marcus Sarofim, Jeremy Martinich, Sarah Barr, Jim Neumann, Jaqueline Willwerth, and Allen Fawcett. 2023. *Earth System Dynamics*.
5. **Comprehensive evidence implies a higher social cost of carbon** with Kevin Rennert, Frank Errickson, Brian Prest, Lisa Rennels, Richard Newell, William Pizer, Cora Kingdon, Jordan Wingenroth, Roger Cooke, David Smith, Kevin Cromar, Delavane Diaz, Fran Moore, Ulrich Mller, Richard Plevin, Adrian Raftery, Hana evkov, Hannah Sheets, James Stock, Tammy Tan, Mark Watson, Tony Wong, and David Anthoff. 2022. *Nature*.
6. **A market for snow: modeling winter recreation patterns under current and future climate** with Peter Christensen. 2022. *Journal of Environmental Economics and Management*. (ungated here)
7. **Overlooked benefits of nutrient reductions in the Mississippi river basin** with Amy Ando. 2020. *Land Economics*. (ungated here)
8. **Willingness-to-volunteer and stability of preferences between cities: Estimating the benefits of stormwater management** with Ando et al. 2020. *Journal of Environmental Economics and Management*. (ungated here)
9. **Benefits of the fire mitigation ecosystem service in The Great Dismal Swamp National Wildlife Refuge** with Emily Pindilli and Dianna Hogan. 2017. *Journal of Environmental Management*. (ungated here)

FEDERAL,
REGULATORY,
AND OTHER
GOVERNMENT
PUBLICATIONS

The Social Cost of Greenhouse Gases

1. Estimates Incorporating Recent Scientific Advances. 2023.
2. Interim Estimates under Executive Order 13990. 2021.

Natural Capital Accounting

1. National Strategy to Develop Statistics for Environmental-Economic Decisions: A U.S. System of Natural Capital Accounting and Associated Environmental Statistics. 2023.

Federal Budget Chapters (Executive Office of the President)

1. Analysis of Federal Climate Financial Risk Exposure. 2024.
2. Climate Financial Risk: The Federal Government's Budget Exposure to Financial Risk Due to Climate Change. 2024.

Phasing Down Production and Consumption of Hydrofluorocarbons

1. 2024 and beyond Allowance Allocation Rule. 2023.
2. Protection of Stratospheric Ozone Rule. 2021.
3. Framework Rule. 2021.

PAPERS IN
PREPARATION

1. **Economic Damages from Climate Change to U.S. Populations: Integrating Evidence from Recent Studies** with Elizabeth Kopits, Daniel Kraynak, Lisa Rennels, David Smith, Elizabeth Spink, Charles Griffiths, Joseph Perla, Nshan Burns, and Michael Howerton (working paper here)
2. **When it Rains, it Pours: Severe Weather Events, Flooding, and Drinking Water Quality** with Wes Austin and Siyu Pan (working paper here)
3. **Climate benefits of nutrient management in aquatic ecosystems** with Jake Beaulieu, Elizabeth Kopits, and Chris Moore (working paper here)
4. **A recreation demand model for mountain snowpack** (working paper here)
5. **Measuring the social cost of greenhouse gas emissions: Progress and a path forward** with Elizabeth Kopits, Wade Davis, Charles Griffiths, Alex Marten, Al McGartland, David Smith, and Elizabeth Spink
6. **The circular economy of biosolids and its effect on drinking water quality** with Patrick Walsh and Wes Austin
7. **Wildfires degrade surface water quality and ecosystem services** with David Smith
8. **Buying the farm and the distribution of local and cultural benefits from farmland conservation** with Amy Ando, Corey Lang, and Frederick Nyanzu

FEDERAL
COMMITTEES,
WORKGROUPS

Assessments of Federal Financial Climate Risk	2023-present
Natural Capital Accounts and Environmental-Economic Statistics Policy Working Group	2022-present
Council of Account Leads	
Environmental-Economic Accounting Classifications	
Interagency Working Group on the Social Cost of Greenhouse Gases Damage Functions, Discounting, Socioeconomic and Emissions Scenarios	2021-present
American Innovation and Manufacturing Act Workgroups	2021-present
Hydrofluorocarbons Phasedown, Technology Transitions, Allowance Allocation	
Ukraine Working Group on the Environment	2022-2024
Ecosystem Services and Environmental Degradation	
Federal Efforts to Address Harmful Algal Blooms and Hypoxia	2020-2022
Government Accountability Office	

AWARDS

Trudy A. Speciner Award for Advancing Environmental Protection	2023
U.S. EPA, National Honors Award	
Gold Medal for Exceptional Service	2023
U.S. EPA, National Honors Team Award	
Bronze Medal for Commendable Service	2023
U.S. EPA, Office of Atmospheric Protection	
Cross-Cutting Group Award	2022
Executive Office of the President of the United States, OMB	
Rising Star Honors Award	2022
U.S. EPA, Office of the Administrator	

	Most Outstanding Dissertation Award	2021
	University of Illinois, Department of ACE	
	Louis V. Logeman Teaching Award	2020
	University of Illinois, College of ACES	
TEACHING EXPERIENCE	Environmental Economics	
	Georgetown University, DC (Econ 475)	FA22
	<i>Lecture:</i> 40 students	
	Undergraduate Credit: 3 Hours	
	Salisbury University, MD (ENVS 210)	SP21
	<i>Online:</i> 40 students	
	Undergraduate Credit: 3 Hours	
	Intermediate Microeconomics (ACE 398)	SP19, FA19
	University of Illinois at Urbana-Champaign, IL	
	<i>Lecture:</i> 65 students	
	Undergraduate Credit: 3 Hours	
	Teaching Evaluation Scores: 4.9/5	
	Microcomputer Applications (ACE 161)	SP18, SU18, FA18
	University of Illinois at Urbana-Champaign, IL	
	<i>Lecture:</i> 50 students, <i>Online:</i> 100 students	
	Undergraduate Credit: 3 Hours	
	Teaching Evaluation Scores: 4.8/5	
	Graduate Academy for College Teaching	SP19, FA19, SP20
	University of Illinois at Urbana-Champaign, IL	
	Teaching Teachers how to Teach	
REVIEWER	Proceedings of the National Academy of Sciences — Nature Climate Change — Journal of Environmental Economics and Management — American Journal of Agricultural Economics — Land Economics — Environmental and Resource Economics — Resource and Energy Economics — Food Policy — Regional Science and Urban Economics — Landscape and Urban Planning — Land Use Policy — Ecological Economics — International Journal of Biometeorology — Environmental Development	
ADDITIONAL EXPERIENCE	Department of the Interior, U.S. Geological Survey	2015 - 2020
	Economist: GS-0199-09	
	Reston, VA	
	Supervisor: Emily Pindilli	
	Inform adaptive management decisions within the U.S. interior and abroad through interdisciplinary and interagency collaboration.	
	Parthum Construction	2005 - <i>present</i>
	Owner and Founder	
	Tabernash, CO	
	Design and build high-end residential remodels, manage large budgets (\$50k-\$1mil), supervise employees and all sub-contractors.	
REFERENCES	Available upon request.	
PROGRAMMING	•         	

LANGUAGES

- English (native), American Sign Language (conversational)