CONTACT 1.970.219.5999 Mail Code 1809T

INFORMATION parthum.bryan@epa.gov 1200 Pennsylvania Avenue, N.W.

bryanparthum.com Washington, DC 20004

Citizenship: USA

Positions U.S. Environmental Protection Agency 2020 - present

Economist: GS-0110-14

National Center for Environmental Economics

Washington, D.C.

Office of Management and Budget 2023 - present

Climate, Energy, Environment, and Science (detail) Climate-Related Financial Risk and E.O. 14030

Washington, D.C.

Previous positions

Georgetown University — Adjunct Professor 2022-2023 Salisbury University — Adjunct Professor 2021-2022

EDUCATION Ph.D., Economics 2020

University of Illinois at Urbana-Champaign, IL

Dissertation: Estimating Demand for Environmental Amenities, Now and Later

M.S., Economics 2015

University of Illinois at Urbana-Champaign, IL

Thesis: Divesting from the Golden State: A Case Study of Local Foods Systems Using Propensity Score Matching Within Panel Data

B.S., Economics 2013

Colorado State University, Fort Collins, CO

Thesis: Co-integration of Industry to Estimate Business Cycles, Developing

Employment and Revenue Projections for the State of Colorado

FIELDS Environmental and Resource Economics Environmental Policy

Applied Econometries Climate Change

Applied Econometrics Climate Change

REFEREED 1. A
JOURNAL S
PUBLICATIONS

- 1. Advancing the estimation of future climate impacts within the United States with Corinne Hartin, Erin E. McDuffie, Karen Noiva, Marcus Sarofim, Jeremy Martinich, Sarah Barr, Jim Neumann, Jaqueline Willwerth, and Allen Fawcett. 2023. Earth System Dynamics
- 2. 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.
- 3. 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)
- 4. Overlooked benefits of nutrient reductions in the Mississippi river basin with Amy W. Ando. 2020. *Land Economics*. (ungated here)

5. 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)

6. 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)

REGULATORY PUBLICATIONS

The Social Cost of Greenhouse Gases

- 1. The Social Cost of Greenhouse Gases: Estimates Incorporating Recent Scientific Advances Model development, replication, and full text
- 2. Interim Estimates under Executive Order 13990 Replication code and full text

Phasing Down Production and Consumption of Hydrofluorocarbons

- 1. 2021 Framework Rule Chapter 4: The Social Cost of Hydrofluorocarbons; Chapter 6: Environmental Justice; Chapter 8: Uncertainty Surrounding the Social Costs of Hydrofluorocarbons
- 2024 Allowance Allocation Rule Chapter 2: The Benefits and Costs of the HFC Phasedown; Chapter 4: Climate Benefits; Chapter 6: Environmental Justice
- 3. Protection of Stratospheric Ozone Rule Chapter 4: Benefits, The Social Cost of Hydrofluorocarbons; Chapter 6: Environmental Justice Analysis

Papers in Preparation

- 1. The social costs of hydrofluorocarbons and the large climate benefits from their expedited phaseout (under review) with Tammy Tan and Lisa Rennels
- 2. Factors influencing participation in lead service line replacement programs (under review) with Heather Klemick and Ann Wolverton
- 3. A recreation demand model for mountain snowpack
- 4. Climate benefits of nutrient management in aquatic ecosystems with Jake Beaulieu, Elizabeth Kopits, and Chris Moore
- 5. Extreme precipitation and drinking water quality with Wes Austin and Siyu Pan
- 6. Wildfires degrade surface water quality and ecosystem services with David Smith
- 7. The circular economy of biosolids and its effect on drinking water quality with Patrick Walsh and Wes Austin
- 8. Buying the farm and the distribution of local and cultural benefits from farmland conservation with Amy W. Ando, Corey Lang, and Frederick Nyanzu

FEDERAL COMMITTEES, WORKGROUPS Assessments of Federal Financial Climate Risk Detail with Office of Management and Budget

2023-present

	Natural Capital Accounts and Environmental-Economic Statistics Council of Account Leads, EPA Representative on IWG	2022-present
	Ukraine Working Group on the Environment Ecosystem Services and Environmental Degradation	2022-present
	Interagency Working Group on the Social Cost of Greenhouse Gases Damage Functions, Discounting, Socioeconomic and Emissions Sco	2021-present enarios
	American Innovation and Manufacturing Act Workgroups Hydrofluorocarbons Phasedown, Technology Transitions, Allowand	2021-present ce Allocation
	Federal Efforts to Address Harmful Algal Blooms and Hypoxia Government Accountability Office	2020-2022
Awards	Trudy A. Speciner Award for Advancing Environmental Protection U.S. EPA, National Honors	2023
	Rising Star Honors Award U.S. EPA, Office of the Administrator	2022
	Most Outstanding Dissertation Award University of Illinois, Department of ACE	2021
	Louis V. Logeman Teaching Award University of Illinois, College of ACES	2020
TEACHING EXPERIENCE	Environmental Economics Georgetown University, DC (Econ 475) Lecture: 40 students Undergraduate Credit: 3 Hours Salisbury University, MD (ENVS 210) Online: 40 students Undergraduate Credit: 3 Hours	FA22 SP21
	Intermediate Microeconomics (ACE 398) University of Illinois at Urbana-Champaign, IL Lecture: 65 students Undergraduate Credit: 3 Hours Teaching Evaluation Scores: 4.9/5	SP19, FA19
	Microcomputer Applications (ACE 161) University of Illinois at Urbana-Champaign, IL Lecture: 50 students, Online: 100 students Undergraduate Credit: 3 Hours Teaching Evaluation Scores: 4.8/5	P18, SU18, FA18
	- ,	P19, FA19, SP20
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	

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 - present

Owner and Founder

Fraser, CO

Design and build high-end residential remodels, manage large budgets

(\$50k-\$1mil), supervise employees and all sub-contractors.

References

Available upon request.

Programming

• R, STata, julia, • git, • MATLAB, • python, • ArcGIS, LATEX, • Office

LANGUAGES

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

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