

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, Office of Policy Economist National Center for Environmental Economics , Washington, D.C. Georgetown University Adjunct Professor Department of Economics , Washington, D.C. Previous Positions Salisbury University, Adjunct Professor	2020 - <i>present</i> 2022 - <i>present</i> 2021
EDUCATION	Ph.D., Applied Economics University of Illinois at Urbana-Champaign, IL Dissertation: <i>Estimating Demand for Environmental Amenities, Now and Later</i> ACE Most Outstanding Dissertation Award, 2021 Committee: Amy Ando (chair), Klaus Moeltner , Ben Gramig , Peter Christensen M.S., Policy 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> Advisor: Geoffrey Hewings 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> Advisors: Stephan Weiler and Harvey Cutler	2020 2015 2013
FIELDS	Primary Environmental and Resource Economics Applied Econometrics	Secondary Environmental Policy Climate Change
REFEREED JOURNAL PUBLICATIONS	<ol style="list-style-type: none"> 1. <i>Comprehensive Evidence Implies Higher Social Cost of Carbon</i> 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. <i>Nature</i>. DOI:10.1038/s41586-022-05224-9 2. <i>A Market for Snow: Modeling Winter Recreation Patterns Under Current and Future Climate</i> with Peter Christensen. 2022. <i>Journal of Environmental Economics and Management</i>. DOI:10.1016/j.jeem.2022.102637 3. <i>Overlooked Benefits of Nutrient Reductions in the Mississippi River Basin</i> with Amy W. Ando. 2020. <i>Land Economics</i>. 96:589-607. DOI:10.3368/wple.96.4.589 4. <i>Willingness-to-Volunteer and Stability of Preferences between Cities: Estimating the Benefits of Stormwater Management</i> with Ando et al. 2020. <i>Journal of Environmental Economics and Management</i>. DOI:10.1016/j.jeem.2019.102274 	

5. *Benefits of the Fire Mitigation Ecosystem Service in The Great Dismal Swamp National Wildlife Refuge, Virginia, USA* with Emily Pindilli and Dianna Hogan. 2017. *Journal of Environmental Management*. 203: 375-82. DOI:10.1016/j.jenvman.2017.08.018

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
2. [2022 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. *A Recreation Demand Model for Mountain Snowpack*
2. *Heavy Rain Events, Toxic Sites, and Drinking Water Quality* with Wes Austin and Siyu Pan
3. *Climate Benefits of Nutrient Management in Aquatic Ecosystems* with Jake Beaulieu, Elizabeth Kopits, and Chris Moore
4. *Buying the Farm and the Distribution of Local and Cultural Benefits from Farmland Conservation* with Amy W. Ando, Corey Lang, and Frederick Nyanzu
5. *The Social Costs of Hydrofluorocarbons and the Climate Benefits from their Phaseout* with Tammy Tan

FEDERAL
COMMITTEES,
WORKGROUPS

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

AWARDS	Trudy A. Speciner Award for Advancing Environmental Protection	2022
	U.S. EPA, National Honors	
	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	Most Outstanding Second Year Research Paper	2018
	University of Illinois, Department of ACE	
	Outstanding Ph.D. Student	2018
	University of Illinois, Department of ACE	
	Environmental Economics	
	Georgetown University, DC (Econ 475)	FA22
	Lecture: 40 students	
	Undergraduate Credit: 3 Hours	
	Salisbury University, MD (ENVS 210)	SP21
	Online: 40 students	
TEACHING CERTIFICATES AND AWARDS	Undergraduate Credit: 3 Hours	
	Intermediate Microeconomics (ACE 398)	SP19, FA19
	University of Illinois at Urbana-Champaign, IL	
	Lecture: 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	
	Lecture: 50 students, Online: 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	
	List of Teachers Ranked as Excellent	FA19, SP19*, FA18
	University of Illinois at Urbana-Champaign, IL	SU18, SP18*
	Top-rated faculty and instructors; ★ indicates top 10%	
	Soaring with Online Learning	SP21
	Salisbury University, MD	
	ACES Teaching and Learning Academy Course	FA17
	University of Illinois at Urbana-Champaign, IL	
	Teacher's Scholar Certificate	FA19
	University of Illinois at Urbana-Champaign, IL	
	Exploration of pedagogy from a discipline-based perspective	
	Graduate Teacher Certificate	FA19
	University of Illinois at Urbana-Champaign, IL	
	Documented teaching experience, development, and reflective practice	

REVIEWER	Proceedings of the National Academy of Sciences — 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	Economist Department of the Interior, U.S. Geological Survey 2015 - 2020 Reston, VA Series: GS-0199-09 Supervisor: Emily Pindilli, 1.703.648.5732 Inform adaptive management decisions within the U.S. interior and abroad through interdisciplinary and interagency collaboration. Contribute to policy discussion and design.	
	Owner and Founder Parthum Construction 2005 - 2014 Laporte, CO Design and build custom homes and high-end residential remodels, manage large budgets (\$50k-\$1mil), supervise 2 employees and all sub-contractors.	
REFERENCES	Amy W. Ando, Ph.D. Professor, Department of Agricultural and Consumer Economics University of Illinois at Urbana-Champaign, IL amyando@illinois.edu Al McGartland, Ph.D. Director, U.S. EPA National Center for Environmental Economics Washington, DC mcgartland.al@epa.gov Klaus Moeltner, Ph.D. Professor, Department of Agricultural and Applied Economics Virginia Tech, VA moeltner@vt.edu Peter Christensen, Ph.D. Assistant Professor, Department of Agricultural and Consumer Economics University of Illinois at Urbana-Champaign, IL pchrist@illinois.edu	
PROGRAMMING	<ul style="list-style-type: none"> •  R, Stata, Julia,  MATLAB,  python,  ArcGIS, L^AT_EX,  Office 	
LANGUAGES	<ul style="list-style-type: none"> • English (native), American Sign Language (fluent) 	