

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 David Anthoff. 2022. Nature. 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. Journal of Environmental Economics and Management. 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. Land Economics. 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. Journal of Environmental Economics and Management. 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

1. *Phasing Down Production and Consumption of Hydrofluorocarbons* 2021
Chapter 4: Benefits, The Social Cost of Hydrofluorocarbons; Chapter 6: Environmental Justice Analysis; Chapter 8: Uncertainty Surrounding the Social Costs of Hydrofluorocarbons
2. *Protection of Stratospheric Ozone: Standards Related to the Manufacture of Class II Ozone-Depleting Substances for Feedstock* 2021
Chapter 4: Benefits, The Social Cost of Hydrofluorocarbons; Chapter 6: Environmental Justice Analysis
3. *The Social Cost of Carbon, Methane, and Nitrous Oxide* 2021
Interim Estimates under Executive Order 13990

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
6. *Using Discrete Choice Experiments as a Tool for Teaching Consumer Theory: A Case Study in an Intermediate Microeconomics Course*

FEDERAL
COMMITTEES,
WORKGROUPS

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

RESEARCH
POSITIONS

- | | |
|---|-----------|
| <i>Big Data in Environmental Economics and Policy</i>
Bridge economics with computer science
University of Illinois at Urbana-Champaign, IL | 2017-2020 |
|---|-----------|

	Cultural Divide in WTP: Rural-Urban Preferences	2016-2020
	An Integrated assessment framework for water quality University of Illinois at Urbana-Champaign, IL	
	Land Conservation on the Rural-Urban Fringe	2019-2020
	Estimating the distributional impacts of land conservation University of Illinois at Urbana-Champaign, IL	
	Dissecting the Energy Efficiency Gap in Home Weatherization	2016-2018
	Randomized control trial, quasi-experimental, and machine learning University of Illinois at Urbana-Champaign, IL	
TEACHING EXPERIENCE	Environmental Economics	
	Georgetown University, DC (Econ 475)	FA22
	Lecture: 40 students Undergraduate Credit: 3 Hours	
	Salisbury University, MD (ENVS 210)	SP21
	Online: 40 students 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	
TEACHING CERTIFICATES AND AWARDS	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	
AWARDS	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	
	Most Outstanding Second Year Research Paper	2018
	University of Illinois, Department of ACE	
	Outstanding Ph.D. Student	2018
	University of Illinois, Department of ACE	
	Gamma Sigma Delta	2017
	Honor Society of Agriculture	
INVITED PRESENTATIONS	U.S. Socioeconomic Impacts of Harmful Algal Blooms Workshop	2020
	Woods Hole Oceanographic Institution, Washington, D.C.	
	<i>Using Web-sourced Data to Estimate the Demand for Climate Amenities</i>	2019
	Camp Resources, Asheville, NC. Invited presentation of learning tutorial.	
SELECTED PRESENTATIONS	<i>Preferences for Environmental Quality across the Rural-Urban Divide</i>	
	The Social Cost of Water Pollution and IAM Workshop, Ithaca, NY	2019
	Annual W4133: Multistate Research Project, Austin, TX	2018
	<i>You are Here: Bringing New Life, and Methods, to Stated Preference Research</i>	
	The Workshop on Enviro Economics and Data Science, Portland, OR	2019
	<i>The Price of Powder: Evidence on the Demand for Snow from Property Rentals</i>	
	Annual W4133: Multistate Research Project, Santa Fe, NM	2019
	<i>Big Mountain Losses for Small Mountain Towns and the Ski Industry</i>	
	Program in Environmental and Resource Economics, Urbana, IL	2018
	<i>Health Benefits of the Fire Mitigation Ecosystem Service</i>	
	BioEcon 19th Annual, Tilburg, Netherlands	2017
SERVICE AND LEADERSHIP	Referee	
	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, Regional Science and Urban Economics, Landscape and Urban Planning, Land Use Policy, Ecological Economics, International Journal of Biometeorology	
	Institutional	
	Student Sustainability Committee (Chair 2017/18, Vice Chair 2018/19) UIUC Campus Senate (Senator, 2016/18) UIUC Senate Executive Committee (2017/18) UIUC Committee on Campus Operations (2016/17) Graduate Student Organization of ACE (Vice President, 2016/17)	
	Community Outreach	
	ACES Family Academies — Short Course	2019
	Economics: The Fun and Seldom Seen Kind	
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.	
	Project Coordinator	

The Global 2100 Project — Our Task, Inc. 2015 - 2017

Washington, DC

Organize research and writing efforts across 25 researchers to develop a comprehensive analysis of global projections for climate, environment, population, agriculture, health, energy, education, conflict, and economic systems through the year 2100.

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

Klaus Moeltner, Ph.D.

Professor, Department of Agricultural and Applied Economics
Virginia Tech, VA
moeltner@vt.edu

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Assistant Professor, Department of Agricultural and Consumer Economics
University of Illinois at Urbana-Champaign, IL
pchrist@illinois.edu

Al McGartland, Ph.D.

Director
U.S. EPA National Center for Environmental Economics
Washington, DC
mcgartland.al@epa.gov

PROGRAMMING

•  R,  Stata,  Julia,  MATLAB,  python,  ArcGIS,  L^AT_EX,  Office

LANGUAGES

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