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POSITIONS	U.S. Environmental Protection Agency Senior Economist National Center for Environmental Economics Washington, D.C.	2023-present
	<i>Previous Positions</i>	
	Executive Office of the President of the United States Senior Economist (detail) Climate, Energy, Environment, and Science Washington, D.C.	2023-2024
	U.S. Environmental Protection Agency Economist National Center for Environmental Economics Washington, D.C.	2020-2023
	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	<ol style="list-style-type: none"> 1. 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) 2. 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. <i>Journal of Environmental and Resource Economics</i>. (ungated here) 	

3. **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*.
4. **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*.
5. **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)
6. **Overlooked benefits of nutrient reductions in the Mississippi river basin** with Amy Ando. 2020. *Land Economics*. (ungated here)
7. **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)
8. **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	<ol style="list-style-type: none"> 1. 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 2. Climate benefits of nutrient management in aquatic ecosystems with Jake Beaulieu, Elizabeth Kopits, and Chris Moore 3. Extreme precipitation and drinking water quality with Wes Austin and Siyu Pan 4. The circular economy of biosolids and its effect on drinking water quality with Patrick Walsh and Wes Austin 5. A recreation demand model for mountain snowpack 6. Wildfires degrade surface water quality and ecosystem services with David Smith 7. 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	<p>Assessments of Federal Financial Climate Risk 2023-present</p> <p>Natural Capital Accounts and Environmental-Economic Statistics 2022-present</p> <p>Policy Working Group</p> <p>Council of Account Leads</p> <p>Environmental-Economic Accounting Classifications</p> <p>Ukraine Working Group on the Environment 2022-present</p> <p>Ecosystem Services and Environmental Degradation</p> <p>Interagency Working Group on the Social Cost of Greenhouse Gases 2021-present</p> <p>Damage Functions, Discounting, Socioeconomic and Emissions Scenarios</p> <p>American Innovation and Manufacturing Act Workgroups 2021-present</p> <p>Hydrofluorocarbons Phasedown, Technology Transitions, Allowance Allocation</p> <p>Federal Efforts to Address Harmful Algal Blooms and Hypoxia 2020-2022</p> <p>Government Accountability Office</p>	
AWARDS	<p>Trudy A. Speciner Award for Advancing Environmental Protection 2023</p> <p>U.S. EPA, National Honors Award</p> <p>Gold Medal for Exceptional Service 2023</p> <p>U.S. EPA, National Honors Team Award</p> <p>Bronze Medal for Commendable Service 2023</p> <p>U.S. EPA, Office of Atmospheric Protection</p> <p>Cross-Cutting Group Award 2022</p> <p>Executive Office of the President of the United States, OMB</p> <p>Rising Star Honors Award 2022</p> <p>U.S. EPA, Office of the Administrator</p> <p>Most Outstanding Dissertation Award 2021</p> <p>University of Illinois, Department of ACE</p> <p>Louis V. Logeman Teaching Award 2020</p> <p>University of Illinois, College of ACES</p>	

TEACHING EXPERIENCE	<p>Environmental Economics Georgetown University, DC (Econ 475) FA22 <i>Lecture</i>: 40 students Undergraduate Credit: 3 Hours</p> <p>Salisbury University, MD (ENVS 210) SP21 <i>Online</i>: 40 students Undergraduate Credit: 3 Hours</p> <p>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</p> <p>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</p> <p>Graduate Academy for College Teaching SP19, FA19, SP20 University of Illinois at Urbana-Champaign, IL Teaching Teachers how to Teach</p>
REVIEWER	<p>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</p>
ADDITIONAL EXPERIENCE	<p>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.</p> <p>Parthum Construction 2005 - <i>present</i> Owner and Founder Arvada, CO Design and build high-end residential remodels, manage large budgets (\$50k-\$1mil), supervise employees and all sub-contractors.</p>
REFERENCES	<p>Available upon request.</p>
PROGRAMMING	<ul style="list-style-type: none"> •         
LANGUAGES	<ul style="list-style-type: none"> • English (native), American Sign Language (conversational)