

CONTACT	1.202.564.1045 parthum.bryan@epa.gov www.bryanparthum.com
OVERVIEW	I am an applied microeconomist with an expertise in consumer demand and the human-environment relationship. I employ both structural and reduced-form modeling, coupled with high-frequency big data methods. I am a driven, self-motivated, and experienced researcher and entrepreneur with a demonstrated history of innovation and advancement. U.S. citizen.
FIELDS	Environmental Economics, Climate, Sustainability, Applied Econometrics
EDUCATION	<p>Ph.D., Applied Economics 2020 University of Illinois at Urbana-Champaign, IL <i>Estimating Demand for Environmental Amenities, Now and Later</i></p> <p>M.S., Policy Economics 2015 University of Illinois at Urbana-Champaign, IL <i>Demand for Local Foods Using P-score Matching within Panel Data</i></p> <p>B.S., Economics 2013 Colorado State University, Fort Collins, CO <i>Co-integration of Industry for Employment and Revenue Projections</i></p>
EXPERIENCE	<p>Economist US Environmental Protection Agency 2020-present Washington, DC</p> <ul style="list-style-type: none"> • Promote the use of sound economic analysis in decision making by providing economic support to and on behalf of the Agency • Contribute to NCEE's leadership through expertise and advances by establishing research best-practices and guidelines <p>Research Economist Big Data in Environmental Economics and Policy 2017-2020 University of Illinois Urbana-Champaign, IL</p> <ul style="list-style-type: none"> • Bridge economics with computer science • Leverage advances in continuous data acquisition, high-performance computing, and machine learning • Collaborate with and supervise 12 computer scientists to develop big data infrastructure <p>Project Coordinator The Global 2100 Project — Our Task, Inc. 2015-2017 Washington, DC</p> <ul style="list-style-type: none"> • Provide professional guidance for 22 G2100 researchers and staff • Develop qualitative and quantitative approaches to determine global economic projections and the impacts of climate changes, resource use, population increase, food security, and conflict • Organize and lead large meetings in person and virtual settings

Owner and Founder

Parthum Construction
Laporte, CO

2005-2014

- Design and build custom homes and high-end residential remodels
- Manage large budgets (\$50k-\$1mil)
- Supervise 1-4 employees and 1-12 contractors simultaneously
- Coordinate with building departments, engineers, banks, suppliers, contractors, and customers to set and execute project schedules

PROGRAMMING •  **R**,  **STATA**,  **Julia**,  **MATLAB**,  **python**,  **ArcGIS**, **LaTeX**,  **Office**

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

SELECTED
PUBLICATIONS

1. *The Social Cost of Carbon, Methane, and Nitrous Oxide*
2. *A Market for Snow: Modeling Winter Recreation Patterns Under Current and Future Climate* with Peter Christensen.
3. *Phasing Down Production and Consumption of Hydrofluorocarbons*
4. *Willingness-to-Volunteer and Stability of Preferences Between Cities* with Amy W. Ando, Catalina Cadavid, and Noelwah R. Netusil.
5. *Benefits of the Fire Mitigation Ecosystem Service* with Emily Pindilli and Dianna Hogan.
6. *Overlooked Benefits of Nutrient Reductions* with Amy W. Ando.
7. *A Recreation Demand Model for Mountain Snowpack*
8. *The Distribution of Cultural Benefits from Land Conservation* with Amy W. Ando, Corey Lang, and Frederick Nyanzu

REFERENCES

Amy W. Ando, Ph.D.
Dissertation Advisor
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Peter Christensen, Ph.D.
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