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

Ph.D., Applied Economics

2020

University of Illinois at Urbana-Champaign, IL

Estimating Demand for Environmental Amenities, Now and Later

M.S., Policy Economics

2015

University of Illinois at Urbana-Champaign, IL

Demand for Local Foods Using P-score Matching within Panel Data

B.S., Economics

2013

Colorado State University, Fort Collins, CO

Co-integration of Industry for Employment and Revenue Projections

EXPERIENCE

Economist

US Environmental Protection Agency

2020-present

Washington, DC

- 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

Research Economist

Big Data in Environmental Economics and Policy

2017-2020

University of Illinois Urbana-Champaign, IL

- Bridge economics with computer science
- Leverage advances in continuous data acquisition, highperformance computing, and machine learning
- Collaborate with and supervise 12 computer scientists to develop big data infrastructure

Project Coordinator

The Global 2100 Project — Our Task, Inc.

2015-2017

Washington, DC

- 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

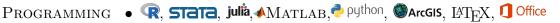
Owner and Founder

Parthum Construction

2005-2014

Laporte, CO

- 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



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 amyando@illinois.edu

Klaus Moeltner, Ph.D. External Advisor moeltner@vt.edu

Peter Christensen, Ph.D. Collaborator pchrist@illinois.edu

Sean Fox, Ph.D. Department Head seanfox@illinois.edu