

BENJAMIN DUBE

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EDUCATION

University of Vermont

Jan 2022

PhD in Natural Resources,

Rubenstein School of Environment and Natural Resources

Economics for the Anthropocene Fellow, Gund Institute for Environment

Dissertation: *Embracing Uncertainty, Ambiguity, And Complexity In Agriculture, Science, And Policy*

Green Mountain College

May 2012

BA in Sustainable Agriculture

Summa Cum Laude, College Honors

RESEARCH INTERESTS

Ecological Economics, Agroecology, Ecosystem Services

PUBLICATIONS

Peer Reviewed Journal Articles

- **Dube, B (2021)** Why Cross and Mix Disciplines and Methodologies?: Multiple Meanings of Interdisciplinarity and Pluralism in EE. *Ecological Economics*. 179. doi.org/10.1016/j.ecolecon.2020.106827
- **Mulder KP & Dube B (2014)** Long-Term Ecological Assessment of Farming Systems (LEAFS): Comparing Human, Animal and Small Machine Power for Fresh-Market Horticulture. *Agroecology and Sustainable Food Systems*. 38:6 doi.org/10.1080/21683565.2014.884034
- **Dube B & Mulder KP (2014)** Energetic Analysis of Draft Animal Hay Harvest: An Alternative Look at Cellulosic Biomass. *Outlook on Agriculture*. 43:4 doi.org/10.5367/oa.2014.0181

Book Chapters

- **Dube, B (2020)** Assessing Ecological Economics at 30: Results from a Survey of ISEE members. in Costanza, Erickson, Farley and Kubiskewski (eds). *Sustainable Wellbeing Futures: A Research Agenda for Ecological Economics*. Edward Elgar, Cheltenham, U.K., pp. 427-444.
- **Brevik K, Adams J, Dube B, Barbieri L & Yahya Haage G. (2020)** Well-being in the More-Than-Human World. in Costanza, Erickson, Farley and Kubiskewski (eds). *Sustainable Wellbeing Futures: A Research Agenda for Ecological Economics*. Edward Elgar, Cheltenham, U.K., pp. 156-166.

Manuscripts in Review

- **Dube B** Certifying Integrated Pest Management: A Case Study in Defining Eco-Agriculture Strategies. *Agroecology and Sustainable Food Systems*

Technical Reports

- **Dube B, White A, Ricketts T & Darby H (2022)** Economic Valuation of Ecosystem Services from Improved Soil Health in Vermont. Report to Vermont Payment for Ecosystem Services and Soil Health Working Group.

- **Ament J, Dube B, Gingrich C, & Svartzman, R (2017)** Stranded Assets Futures: An Inquiry into the Hydrocarbon Asset Bubble.
- **Mulder KP, Dube B, Brown L & Ackerman-Leist P (2013)** Passive Solar Root-Zone Heat for High Tunnel Production: Two-year Results Summary.

Manuscripts in Preparation

- **Dube, B & Reynolds, TR** Defining Organic Agriculture by Movement, Science and Practice: Setting the Boundaries of Alternative Agriculture
- **Dube, B & Erickson J** Field-Scale Models for Watershed-Level Analysis of Phosphorus Loss in the Lake Champlain Basin.

TEACHING EXPERIENCE

Courses Taught

- Prescott College. "The Economics of Sustainable Organizations and Communities" (Master's Level) Fall 2019 –Summer 2021
- Green Mountain College. "Sustainable Community Development Economics." (Master's Level) Summer 2017, Spring 2017, 2018, 2019
- University of Vermont. "Principles of Community Development Economics." Summer 2021 (Co-instructor)
- University of Vermont. "Agroecology, Farmer Livelihoods and Ecosystem Restoration: Field Course in Santa Catarina, Brazil." Spring 2017 (Co-instructor)

Academic Committees & Advising

- Masters Thesis Advisor: Steven Woods Sail Freight Revival: Methods Of Calculating Fleet, Labor, And Cargo Needs For Supplying Cities By Sail. Masters of Sustainable and Resilient Communities. Prescott College May, 2021

Graduate Teaching Assistantships

University of Vermont

- NR 141: "Introduction to Ecological Economics" Fall 2017
- ENVS 002: "International Environmental Studies" Spring 2016, Spring 2019
- NR 206: "Environmental Problem Solving and Impact Assessment" Fall 2015
- ENVS 001 "Introduction to Environmental Studies" Fall 2019
- NR 002 "Natural History and Human Ecology" Spring 2020

SELECTED CONFERENCE PRESENTATIONS

- **Dube, B:** Order Beyond Discipline and Methodology? Contrasting Intellectual Goals of Transdisciplinary Ecological Economics *Biennial Meeting of the Canadian Society for Ecological Economics, May 25 2019, Waterloo, Ontario*
- **Dube, B** "Agro-ecology as Adaptive Management: Is a 'Bottom-Up' Paradigm for Eco-Friendly Agriculture Feasible?" Biennial Meeting of the Canadian Society for Ecological Economics, October 19 2017, Montreal, Canada
- **Dube B, Bliss S, Middleman M, Clithero G, Karas A, Farley J & Schmitt A** "Agroecology and the Global Environmental Crisis: Lessons from Santa Catarina, Brazil" *Biennial Meeting of the US Society for Ecological Economics June 26 2017, St. Paul, Minnesota.*

- **Dube B, Schmitt A, Fantini A & Farley J** “Forest Restoration, Farmer Livelihoods, and Environmental Regularization: A PAR Approach to Ecosystem Services in the Atlantic Rainforest, Southern Brazil.” *Biennial Meeting of the International Society for Ecological Economics*. June 27 2016 Washington, DC.
- **Dube B & Mulder, KP** “Farming without Oil: Land, Labor and Energy Demands of Alternative Farm Systems.” *Biennial Meeting of the US Society for Ecological Economics*. June 10, 2013, Burlington, Vermont.

OCCUPATIONAL EXPERIENCE

University of Vermont

Field Research Leader

Mar 2022–Present

Burlington, VT

- Prepared a report for the State of Vermont valuing ecosystem services from improved soil health.
- Built custom analysis software linking various agriculture-environment models including USLE, the NRCS curve number, DayCent and components of SWAT.

Middleton Place Foundation/Charleston Carriage Works

Tour Guide

Feb 2014–May 2015

Charleston, SC

- Distilled complex history into fun educational talks; delivered over 1000 public lectures.

Green Mountain College

Farm Research and Production Assistant

Jan 2012–Dec 2013

Poultney, VT

- Led data collection, management and analysis for Long-Term Ecological Assessment of Low-Energy Farming systems research project.
- Assisted with data transcription and analysis for high tunnel root-zone heating project.
- Participated in management and education of a team of up to 13 students and employees during summer farm semesters.
- Served as interim farm co-manager during farm manager’s 7 week family leave during the growing season.

Green Mountain College –Cerridwen Farm

Farm Hand & Undergrad Research Asst

Oct 2010 –Dec 2011

Poultney, VT

- Assisted with many tasks on the farm including pasture management/grazing planning and oxen driving, as well as farm research analysis.

TECHNICAL SKILLS

- Python / Anaconda (advanced)
- R (basic)
- GIS (Arc and open-source, advanced)
- Git (basic)
- Bash (basic)
- MS Office Suite
- Editing & writing for clarity & brevity
- Public oral presentation