

Eric Garza

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EDUCATION

PhD, Natural Resources, University of Vermont, 2011

Focus: Ecological economics, fossil fuel depletion, energy systems analysis

Dissertation: Reacting to the Peak: Multiple Criteria Analysis and Energy Return on Energy Invested in Energy Decision Making.

MS, Environmental Science, MA Public Affairs, Indiana University, May 2006

Focus: Environmental chemistry, toxicology, risk assessment, environmental policy

BS, Biology, Purdue University, May 2001

Focus: Ecology and evolution

TEACHING

University of Vermont

CDAE 195 – Barriers to Local Food (Fall 2014, 2015)

CDAE 195/295 – Local and Regional Food Systems (Fall 2016, 2017, 2019)

CDAE 195/295 – Complexity in Food Systems (Spring 2014-2020)

CDAE 295 – Mapping the UVM Food System (Fall 2013)

CDAE/ENVS 295 – Energy Use in Food Systems (Fall 2012, 2013)

CDAE/FS/PSS 395 – Scale in Food Systems (Spring 2013)

ENVS 295, CDAE 207 – The Real Cost of Food (Fall 2014 - 2016, 2018, Spring 2021)

ENVS 188 – Sustainability Science (Summer 2015-2018, Spring 2018)

ENVS 189 – Introduction to Systems Thinking (Summer 2016)

ENVS 195 – Toxics Policy & the Public (Spring 2013-2015)

ENVS 195 – Energy Literacy (Spring 2012)

ENSC 160 – Movement of Pollutants Through Air, Land and Water (Fall 2011, 2012)

FS 350 – Food Systems Immersion Seminar (Spring 2015)

PBIO 133 – How Plants Can Save The World (Fall 2020)

Green Mountain College

SFS 3060 – Agriculture and Energy (Spring 2014 – Fall 2017)

Champlain College

ENP 450 – Environmental Decision Making (Fall 2015)

EXPERIENCE

September 2011 – present, University of Vermont: Lecturer, College of Agriculture and Life Sciences, Rubenstein School for Environment and Natural Resources

October – December 2018, Vermont Center for Sustainable Agriculture, University of Vermont: Consultant, assisting in data analysis of food security surveys

June – December 2016, Vermont Organics Reclamation: Consultant, gathered information on the energy inputs associated with soil and compost production

December 2015 - October 2016, Food Systems Initiative, University of Vermont: Consultant, assisted in strategic planning process

August -December 2015, Champlain College: Adjunct Lecturer, Environmental Studies and Policy Program

November 2014 – May 2017, Green Mountain College: Lecturer, Masters in Sustainable Food Systems program

January 2013 – May 2016, Vermont Center for Sustainable Agriculture: Consultant, assessed energy use and energy return of pasture-based farming systems

December 2012 – June 2016, Vermont Sustainable Jobs Fund: Appointed to the Energy Cross Cutting Team, contributed to the Vermont Farm to Plate Strategic Plan

August – November 2011, Vermonters for a Sustainable Population: Consultant, collected and analyzed data for a report written by the organization

March – May 2011, Institute for Integrated Economics Research, Switzerland: Consultant, collected data on risks associated with agricultural supply chains, assisted with organizing a conference that took place in late May 2011

October 2010 – June 2011, Vermont Sustainable Jobs Fund, Montpelier VT: Consultant, estimated the energy balance of biodiesel produced in Vermont

August 2007 – May 2011, University of Vermont: Teaching and research assistantships

August 2003 – May 2007, Indiana University: Teaching and research assistantships

July – December 2003, United States Geological Survey, Lake Michigan Ecological Research Station: Consultant, data analysis, technical report writing and editing

October 2002 – February 2003, Shirley Heinze Land Trust, Valparaiso, IN: Managing invasive species on land trust properties using mechanical and chemical means

March 2000 – July 2003, United States Geological Survey, Lake Michigan Ecological Research Station: Field research technician, aquatic entomology, herpetology, botany

PROFESSIONAL WRITING

- S. Sawyer, Eric Garza, et al. 2016. Food System Energy Issues. Section 4.6 in the *Vermont Farm to Plate Strategic Plan*, prepared for the Vermont Sustainable Jobs Fund.
- Eric Garza. 2011. *The Energy Return on Invested of Biodiesel in Vermont*. Report written for the Vermont Sustainable Jobs Fund.
- R. Beddoe, R. Costanza, J. Farley, Eric Garza, et al. 2009. Overcoming systemic roadblocks to sustainability: the evolutionary redesign of worldviews, institutions, and technologies. *Proceedings for the National Academy of Science*. 106: 2483-2489.
- Eric Garza, P. Hines, D. Porter. 2009. *Marsh-Billings-Rockefeller National Historical Park Energy Audit Results and Recommendations*. Report written for the Marsh-Billings-Rockefeller National Historical Park.

R. Thureau, S. Parsons, A. Rosales, Eric Garza et al. *Indiana Energy Report 2007: An Assessment of the Energy Use and Costs for the State of Indiana*. Report written for the Indiana Office of Energy Development.

PRESENTATIONS

Eric Garza. Putting the 'Systems' Back Into Food Systems Analysis, UVM Food Systems Summit, June 2016

Eric Garza. Energy Use on Small Farms, Conference on Collaboration and Innovation in Food Systems, University of Vermont, June 2014

Eric Garza. The Energy Basis of Food Security, UVM Food Systems Summit, June 2014

Eric Garza. The Energy Intensity of Food Production, Campus Food & Energy Seminar Series, University of Vermont, February 2014

Eric Garza. The Energy Basis of Food Security, Pasture & Livestock Conference, January 2013

Eric Garza. Energy Use in Food Systems, 4th Biophysical Economics Conference, October 2012