

Eric Garza

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EXPERIENCE

- January 2013 – Present, Vermont Center for Sustainable Agriculture, Burlington, VT**
Consultant, assess energy use and energy return of pasture-based farming systems in Vermont
- December 2012 – Present, Vermont Sustainable Jobs Fund, Montpelier VT**
Consultant, appointed to the Energy Cross Cutting Team to assist in writing the energy chapter of the Vermont Farm to Plate Strategic Plan
- September 2011 – present, University of Vermont, Burlington, VT**
Adjunct lecturer, see list of courses taught below.
- August – November 2011, Vermonters for a Sustainable Population, Montpelier, VT**
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 and summarized findings in a report for the organization
- August 2007 – May 2011, University of Vermont, Burlington, VT**
Teaching assistant for ENSC 160 – Movement of Pollutants Through Air, Land & Water (3 cr), ENSC 195 – Introduction to Ecological Economics (3 cr)
Research assistantships involved systems modeling, multi-criteria assessment, data analysis, technical writing, landscape-scale energy audit for the Marsh-Billings-Rockefeller National Historical Park
- August 2003 – May 2007, Indiana University, Bloomington, IN**
Teaching assistant for E162 – Environment and People (3 cr), E536 – Environmental Chemistry (3 cr), E537 – Environmental Chemistry Lab (3 cr), spatial analysis (GIS)
Research assistantships involved data analysis, technical writing, research & development, state-level energy assessment
- July – December 2003, United States Geological Survey, Porter, IN**
Consultant, data analysis, technical report writing and editing
- March 2000 – July 2003, United States Geological Survey, Porter, IN**
Field research technician, herpetology, botany, ecological microbiology

TEACHING

University of Vermont

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 195 – Toxics Policy & the Public (Spring 2013)

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

ENVS 195 – Energy Literacy (Spring 2012)

WRITTEN WORK

Eric Garza, K. Achilich, R. DiStefano. In review. Scale in food systems. Submitted to *Agriculture and Human Values*.

Eric Garza. In review. The energy basis of food security. Submitted to *Food Security*.

Eric Garza. 2011. *The Energy Return on Invested of Biodiesel in Vermont*. Report written for the Vermont Sustainable Jobs Fund.

Eric Garza. 2011. *Reacting to the Peak: Multiple Criteria Analysis and Energy Return on Energy Invested in Energy Decision Making* (Dissertation)

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. Thurau, 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

The Energy Basis of Food Security, Pasture & Livestock Conference, January 19, 2013

Energy Use in Food Systems, 4th Biophysical Economics Conference, October 27, 2012

EDUCATION

PhD, Natural Resources, University of Vermont, 2011

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

BS, Biology, Purdue University, May 2001