

# E. Carol Adair

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Natural Resources  
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## EDUCATION & TRAINING

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2009-2011    Post-

E.C. Adair, W.J. Parton, J.Y. King, L. Brandt and M.E. Harmon. 2017. Accounting for

Adair, E.C., S.E. Hobbie, R.K. Hobbie. 2010. Single pool exponential decomposition models: potential pitfalls in their use in ecological studies. *Ecology* 91:1225-1236.

Adair, E.C., P.B. Reich,

Developing accurate regional estimates of agricultural greenhouse gas emissions. UVM REACH Program. \$40,000. 2016-2018. Lead PI.

### *Pending*

Understanding the Risks, Rewards and Livelihoods Across FEWS. NSF National Research Traineeship (NRT). \$2,989,269. Co-PI.

Acquisition of an ICP-OES for a Multiuser Facility. Agriculture and Food Research Initiative Bioenergy, Natural Resources, and Environment (BNRE). Co-PI.

### *Past*

Evaluation of tillage and manure application practices on soil quality and greenhouse gas emissions. NE SARE Partnership Grant. \$12,940. 2015-2017. Lead PI.

Analysis of Sediments, Nutrients, and Greenhouse Gases associated with Green Stormwater Infrastructure. Lake Champlain Sea Grant Program (NOAA). \$103,000 (plus local match). 2014-2016. Co-PI.

What lurks below: how important are subsurface flows of nitrogen and phosphorus? Vermont EPSCoR Pilot Program. \$9,992. 2014-2016. Lead PI.

Synergies and Trade-Offs Between Climate Adaptation and Mitigation Policy, Governance and Agricultural Practice in the Lake Champlain Basin (LCB) of Vermont. UVM Food Systems Spire Research Grant. \$400,000. 2012-2015. Co-PI.

Carbon and nutrient fluxes in a warming world: a forest mesocosm study. USDA McIntire-Stennis Program. \$24,000. 2012-2014. Lead PI.

Adapting to Climate Change with Low Impact Development Stormwater Management in the Lake Champlain Basin. Lake Champlain Sea Grant Program (NOAA). \$116,085 (plus local match). 2012-2014. Co-PI.

Characterizing climate-induced qualitative changes in plant polyphenol composition and their influence on soil processes. NSF Division of Environmental Biology – Ecosystem Studies. \$26,800 subcontract to UVM. 2011-2014. Co-PI.

## **TEACHING**

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Assistant Professor, Rubenstein School of Environment and Natural Resources, University of Vermont, Burlington, Vermont. Responsible for course development and instruction of

**ENVS 2:** International Environmental Studies, Climate change impacts in your lifetime: global and local, 2012, 2014

## **MENTORING**

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### **National grants & awards to advisees**

NSF Graduate Research Fellowships Program (GRFP) – 201X Stephanie Juice, PhD

Switzer Fellowship – 2018 Lindsay Barbieri, PhD

NE

## **Undergraduate Mentoring**

*Undergraduate Advisees:* 20-40, year dependent

### *EPSCoR competitive summer internship advisees*

Allyson Makuch, Sterling College, 2013  
Rachel Markey, University of Vermont (UVM), 2014  
Marissa Goodwin, UVM, 2014  
Emily Whalen, UVM, 2014  
Marissa Ng, UVM, 2015  
Jordan Davis, UVM, 2015  
Zachary Walker, UVM, 2015  
Solomon Lew, Champlain College, 2015  
Colleen Yancey, UVM, 2016, 2017  
Nicole Mehr, Hartwick College, 2016  
Kunal Palawat, UVM, 2017  
Emet Marwell, Mount Holyoke College, 2018  
Amanda Jackson, University of Puerto Rico, 2018  
Kelsey Coates, Duquesne University, 2018  
Herrald Rosado-Loubriel, Universidad del Turabo, 2018  
Pamela Garcia, Universidad De Puerto Rico Recinto Universitario De Mayaguez, 2018

### *Undergraduate Internship Research/Projects* (within my lab)

Austin Wilkes, Honors enrichment, 2015

## OUTREACH

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### *RSENIR Internship – faculty sponsor*

Jessica Mailhot, Ornithology Research Internship, 2013

Elliot Casper, Internship with VBH Environmental Consulting Firm, 2014

Adair, E.C., L. Barbieri, T. Goeschel, K. Dittmer, H.M. Darby. The potential for best management