

## Michell L. Thomey

University of New Mexico  
Department of Biology MSC03-2020  
1 University of New Mexico  
Albuquerque, NM 87131, USA

Office: (505) 277-1727  
Fax: (505) 277-5355

Email: mlthomey@sevilleta.unm.edu

### EDUCATION

Ph.D., (Biology) University of New Mexico, 2012  
M.S., (Biology) California State University, Fullerton, 2003  
B.S., (Biology) California State University, Fullerton, 1998  
Stable Isotopes in Ecology course/lab, University of Utah, 2011 (Leaders: Jim Ehleringer, Todd Dawson, Thure Cerling – selective admission)

### PROFESSIONAL APPOINTMENTS/EMPLOYMENT

Postdoctoral Associate, University of New Mexico, Department of Biology, 2012 –  
Advisor: William T. Pockman  
Research Scientist, University of New Mexico, Department of Biology, 2006  
Biological Science Tech, USDA Forest Service, Lake Tahoe, CA, 2005  
Research Technician, School of Life Sciences, Arizona State University, 2004  
Intern, Division of Earth and Ecosystem Science, Desert Research Institute, 2003

### PEER-REVIEWED PUBLICATIONS

**Thomey ML**, Collins SL, Friggens MT, Brown RF, Pockman WT (2014) Monsoon precipitation extremes and the response of two dominant grassland species across a semiarid ecotone. (*In revision, Oecologia*)

Ladwig LM, Sinsabaugh RL, Collins SL, **Thomey ML** (2014) Reserve dynamics of dryland soil enzymes. (*In review, Plant and Soil*)

**Thomey ML**, Ford PL, Reeves MC, Finch DM, Litvak ME, Collins SL (2014) Climate change impacts of future carbon stores and management of warm deserts of the USA. *Rangelands*, 36, 16 – 24

Shi Z, **Thomey ML**, Mowll W, Litvak M, Brunsell NA, Collins SL, Pockman WT, Smith MD, Knapp AK, Luo Y (2014) Differential effects of extreme drought on production and respiration: synthesis and modeling analysis. *Biogeosciences*, 11, 621 – 633

Robinson TMP, La Pierre K, Vadeboncoeur M, Byrne K, **Thomey ML**, Colby S (2013) Seasonal not annual precipitation drives community productivity across ecosystems. *Oikos*, 122, 727 – 738

Vargas R, Collins SL, **Thomey ML**, Johnson JE, Brown RF, Natvig DO, Friggens MT (2012) Changes in timing and magnitude of precipitation increase carbon loss in arid grassland. *Global Change Biology*, 18, 1401 – 1411 (\*cover photo by RF Brown)

**Thomey ML**, Collins SL, Vargas R, Johnson JE, Brown RF, Natvig DO, Friggens MT (2011) Effect of precipitation variability on net primary production and soil respiration in a Chihuahuan Desert grassland. *Global Change Biology*, 17, 1505 – 1515

#### **GRANTS AND FELLOWSHIPS (over \$2000 – six small awards not shown)**

2014 USDA – NIFA, Collaborative: Dr. Michael Loik, UCSC, \$150,000 (pending)

2011 Harry Wayne Springfield Scholarship, UNM, \$3000

2010 Harry W. Springfield Scholarship UNM, \$2000

2010 Graduate Student Summer Fellowship, Sevilleta LTER, \$3500

2010 Intra-annual rainfall variability across ecosystem. Long Term Ecological Research Network. Collaborative: Todd Robinson (Kellogg Biological Station), Kimberly La Pierre (Yale University), Michell L. Thomey (UNM), \$11884.50

2010 T&E Inc. Grants for Conservation Biology Research, \$2500

2009 Graduate Student Summer Fellowship, Sevilleta LTER, \$3500

#### **INVITED TALKS**

**Thomey ML** (2014) *Increasing climate extremes: How sensitive are semiarid grasslands to climate change*. USDA Global Change and Photosynthesis Research Unit, University of Illinois.

**Thomey ML** and Collins SL (2012) Climate change and the carbon cycle: a view from arid-semiarid grassland ecosystems. In organized session: *Consequences of future climate variability on productivity, carbon storage, and water balance in arid and semiarid regions*. Ecological Society of America (ESA)

#### **PRESENTATIONS AT PROFESSIONAL MEETINGS (\*presenter)**

Shi Z\*, **Thomey ML**, Mowll W, Litvak M, Brunsell NA, Collins SL, Pockman WT, Smith MD, Knapp AK, Luo Y (2014) Differential effects of extreme drought on production and respiration: synthesis and modeling analysis. In organized session: *The value of comparative approaches for understanding ecosystem responses to global change*. ESA meeting.

\***Thomey ML**, Pockman WT, Collins SL (2013) Examining the role of increased climate variability and fire on aboveground net primary production and soil respiration in semiarid grassland. American Geophysical Union (Poster)

\*Pockman WT, Boutz AL, Hudson PJ, Limousin J-M, Pangle RE, Plaut JA, **Thomey ML**, Collins SL, Litvak ME, McDowell NG, Small EE (2013) Community and ecosystem scale responses to precipitation variability and extremes in semiarid grassland, shrublands and woodlands. In organized session: *Community and ecosystem scale responses to precipitation variability and extremes in semiarid grasslands, shrublands and woodlands*. ESA meeting.

\*Vargas R, Collins SL, **Thomey ML**, Johnson JE, Brown RF, Natvig DO, Friggens MT (2013) How multi-year manipulation of precipitation influence net primary production and soil CO<sub>2</sub> efflux in a desert grassland. European Geosciences Union meeting.

\***Thomey ML**, Collins SL, Pockman WT, Friggens MT, Brown RF (2011) Monsoon precipitation extremes and the response of two dominant grassland species across an arid-semiarid ecotone. ESA meeting.

\***Thomey ML**, Collins SL, Vargas R, Johnson JE, Brown RF, Natvig DO, Friggens MT (2009) Effect of rainfall pulses on soil CO<sub>2</sub> and ecophysiology of *Bouteloua eriopoda* in a northern Chihuahuan Desert grassland. ESA meeting.

\***Thomey ML**, Collins SL, Moore DI (2007) Effects of climate variability and N limitation in desert grassland. ESA meeting (Poster)

\*Bryant DM, Strauss S, **Thomey ML**, Ruhland CT, Day TA (2006) C:N:P stoichiometry of Antarctic tundra microcosms under increased temperature, precipitation and soil glucose additions. ESA meeting.

## TEACHING EXPERIENCE

Graduate Assistant, Plant Physiological Ecology Laboratory, California State University, Fullerton (CSUF), 2002

Graduate Assistant, Field Botany, CSUF, 2001

Laboratory Coordinator, Principles of Botany, CSUF, 2001

Teaching Assistant, Principles of Botany Laboratory, CSUF, 1999-2000

## PROFESSIONAL SERVICE and MEMBERSHIPS

Manuscript Reviewer: *Global Change Biology*, *Agricultural and Forest Meteorology*, *Forest Ecology and Management*, *Plant and Soil*, *Global Ecology and Biogeography*

Member:

American Geophysical Union

Ecological Society of America

## REFERENCES

William T. Pockman, Professor ([pockman@unm.edu](mailto:pockman@unm.edu))

Scott L. Collins, Regents' Professor, Potter Chair ([scollins@sevilleta.unm.edu](mailto:scollins@sevilleta.unm.edu))

Department of Biology, MSC0-2020

1 University of New Mexico

Albuquerque, NM 87131, USA

Darren R. Sandquist, Professor ([dsandquist@fullerton.edu](mailto:dsandquist@fullerton.edu))

Department of Biological Science

California State University, Fullerton  
Fullerton, CA 92834, USA

Rodrigo Vargas, Assistant Professor ([rvargas@udel.edu](mailto:rvargas@udel.edu))  
Department of Plant and Soil Sciences  
University of Delaware  
Newark, DE 19716, USA