

Kevin Rory Wilcox

CONTACT INFORMATION

Department of Biology
Colorado State University
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EDUCATION

Ph.D. – Graduate Degree Program in Ecology *Colorado State University*, Fort Collins, Colorado 2010 – Current
Thesis: “Assessing grassland sensitivity to global change”
Advisor: Alan K. Knapp
Dissertation committee: Melinda Smith, Joe von Fischer, Eugene Kelly
Bachelor’s of Science – Department of Biological Sciences *Central Washington University*, Ellensburg, Washington 2008
Concentration in Plant Ecology, GPA: 3.7

PROFFESIONAL EXPERIENCE

Post-doctoral Research Fellow July 2015 - Current
University of Oklahoma, Department of Microbiology and Plant Biology
Norman, Oklahoma

Graduate Teaching Assistant January 2013 – May 2015
Colorado State University, Department of Biology, Fort Collins, Colorado

Graduate Research Assistant August 2010 – January 2013
Colorado State University, Department of Biology, Fort Collins, Colorado

Research Technician April – August 2010
Colorado State University, Department of Biology

Research Technician January – April 2010
University of Puerto Rico at Río Piedras, Luquillo Long Term Ecological Research Station

Research Assistant May – September 2009
University of Montana, College of Forestry and Conservation
Missoula, Montana

Research Assistant May – September 2008
University of Washington, School of Environmental and Forest Sciences
Seattle, Washington

REFEREED PUBLICATIONS

Wilcox K., J. von Fischer, J. Muscha, M. Petersen, A. Knapp. 2015. Contrasting above- and belowground sensitivity of three Great Plains grasslands to altered rainfall regimes. *Global Change Biology* 21:335-344.

Avolio M., S. Koerner, K. La Pierre, **K. Wilcox**, G. Wilson, M. Smith, S. Collins. 2014. Changes in plant community composition, not diversity, drive changes in aboveground productivity during a decade of nitrogen and phosphorus additions in a tallgrass prairie. *Journal of Ecology* 102:1649-1660.

Koerner S., D. Burkepile, R. Fynn, C. Burns, S. Eby, N. Govender, N. Hagenah, K. Matchett, K. Thompson, **K. Wilcox**, S. Collins, K. Kirkman, A. Knapp, M. Smith. 2014. Plant community response to loss of large herbivores differs between North American and South African savanna grasslands. *Ecology* 95:808-816.

Eby, S., D. E. Burkepile, R. W. Fynn, C. E. Burns, N. Govender, N. Hagenah, S. E. Koerner, K. J. Matchett, D. I. Thompson, **K. R. Wilcox**, and others. 2014. Loss of a large grazer impacts savanna grassland plant communities similarly in North America and South Africa. *Oecologia* 175:293-303.

Kirkman, K., S. Collins, M. Smith, A. Knapp, D. Burkepile, C. Burns, R. Fynn, N. Hagenah, S. Koerner, K. Matchett, D. Thompson, **K. Wilcox**, P. Wragg. 2014. Responses to fire differ between South African and North American grassland communities. *Journal of Vegetation Science* 25: 793-804.

Knapp, A., D. Hoover, **K. Wilcox**, M. Avolio, S. Koerner, K. La Pierre, M. Loik, Y. Luo, O. Sala, M. Smith. Characterizing differences in precipitation regimes of extreme wet and dry years beyond amount: Implications for climate change experiments. *Global Change Biology*
DOI: 10.1111/gcb.12888

IN PRESS

Yu Q, **K. Wilcox**, K. La Pierre, A. Knapp, M. Smith. Stoichiometric homeostasis predicts plant species dominance, stability and responses to global change. *Ecology*.

Avolio M., K. La Pierre, G. Houseman, E. Grman, F. Isbell, D. S. Johnson, S. Koerner, **K. Wilcox**. A predictive framework for identifying community responses to global change drivers.

PUBLICATIONS IN REVIEW

Burkepile, D. E., D. Thompson, R. W. S. Fynn, S. E. Koerner, S. Eby, N. Govender, N. Hagenah, N. P. Lemoine, J. R. Matchett, **K. R. Wilcox**, S. L. Collins, K. P. Kirkman, A. K. Knapp, and M. D. Smith. Herbivore size guilds and predation risk drive plant community dynamics in a southern African savanna.

PUBLICATIONS IN PREPARATION

Wilcox K., Knapp, A. Assessing ecosystem sensitivity to alterations in precipitation regimes with two long-term data sets in US tallgrass prairie.

Wilcox K., Blaire, J., Knapp, A. Belowground production and biogeochemical cycling consequences of 23 years of chronically increased precipitation in tallgrass prairie.

Smith, M. D., A. K. Knapp, S. L. Collins, D. E. Burkepile, K. P. Kirkman, S. E. Koerner, S. Eby, N. Govender, C E. Burns, R. W.S. Fynn, N. Hagenah, K. J. Matchett, D. I. Thompson, J. M. Blair, **K. R. Wilcox**. Shared drivers, divergent responses, and common mechanisms: insights from comparing mesic savanna grasslands.

TEACHING ASSISTANTSHIPS

ECOL 600: Community Ecology – <i>Colorado State University</i>	Spr. 2014; Spr. 2015
LIFE 103: Biology of Organisms – <i>Colorado State University</i>	Fall 2013; Fall 2014
BZ 450: Plant Ecology – <i>Colorado State University</i>	Spring 2013

GUEST LECTURES

ECOL 600: Community Ecology	Spring 2014 & 2015
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Dr. Melinda Smith, *Colorado State University*

“Multivariate statistics for use in ecological studies”

“Biodiversity and Ecosystem Function”

SOCR 100: General Crops

Fall 2014

Dr. Meagan Schipanski

“Measuring plant physiological processes in a field setting”

ECOL 600: Community Ecology

Spring 2014

Dr. Melinda Smith, *Colorado State University*

“Multivariate statistics for use in ecological studies”

BZ 450: Plant Ecology

Spring 2013

Dr. Melinda Smith, *Colorado State University*

“Biodiversity and ecosystem function”

ECOL 610: Ecosystem Ecology

Fall 2012

Dr. Joseph von Fischer, *Colorado State University*

“Ecological stoichiometry”

TALKS

Wilcox, K. R. 2014. “Sensitivity of productivity to altered precipitation regimes in three US grasslands.” Society for Ecosystem Restoration invited pub talk, Fort Collins, CO.

Wilcox, K. R. 2014. “Productivity and carbon under chronic increases in productivity in a tallgrass prairie.” Mega-lab meeting. Colorado State University, Fort Collins, CO.

Wilcox, K. R., J. Blair, S. Collins, M. Smith, A. Knapp. 2014. “Assessing ecosystem sensitivity to alterations in precipitation regimes with two long-term data sets in US tallgrass prairie.” Contributed Oral Session. Ecological Society of America Annual Meeting, Sacramento, California

Wilcox, K. R. February 2014. “Science with scissors: letting questions drive our science and not

the other way around.” Ignite presentation, Graduate Student Forum, Colorado State University, Fort Collins, Colorado.

Wilcox, K. R., J. von Fischer, J. Muscha, M. Petersen, A. Knapp. **2013**. “Sensitivity of productivity to precipitation regimes in three US grasslands.” Invited oral presentation, Ecological Society of America Annual Meeting, Minneapolis, Minnesota (August, 2013) and the Front Range Student Ecology Symposium, Fort Collins, Colorado (March, 2013).

Wilcox, K. R., M. Smith, K. La Pierre, A. Knapp. August **2012**. “Can stoichiometric homeostasis predict responses to climate change?” Contributed Oral Session. Ecological Society of America Annual Meeting, Austin, Texas

Wilcox, K. R. and A. Knapp. September **2012**. “Grassland responses to changing precipitation amounts and patterns.” Invited oral presentation for Fort Keogh Livestock and Range Research Laboratory, Agricultural Research Station, Miles City, Montana.

Wilcox, K. R., M. Smith, S. Koerner, A. Knapp. June **2012**. “Local-scale plant species richness and the regional species pool.” Konza Prairie Long Term Ecological Research Station Workshop. Manhattan, Kansas.

Wilcox, K. R., and L. Raubeson. March **2008**. “Analysis and validation of the nuclear marker XDH for phylogenetic utility.” Symposium on University Research and Creative Expression. *Central Washington University*, Ellensburg, Washington.

POSTERS

Wilcox, K. R. and A. Knapp. March **2014**. “Modifiers of ANPP-precipitation relationships in a mesic grassland: Assessing the importance of precipitation amount, variability, and soil water storage.” Front Range Student Ecology Symposium, Fort Collins, Colorado.

Wilcox, K. R. and A. Knapp. **2011**. “Multiple long term ecological research functions.” Grasslands in a Global Context, Manhattan, Kansas (September 2011) and the Front Range Student Ecology Symposium, Fort Collins, Colorado (March 2011).

GRANTS

Department of Biology, Colorado State University	2015
Travel award	\$995
Department of Biology, Colorado State University	2014
Travel award	\$945
Graduate Degree Program in Ecology, Colorado State University	2013
Graduate student research grant	\$1,890
“Grassland responses to altered precipitation patterns across the Great Plains: disentangling the direct effects of precipitation from the indirect effects of N availability.”	

AFFILIATIONS

Ecological Society of America

2011 – Current

Active member

SERVICE AND OUTREACH

Reviewer for *Ecology Letters*, *Ecosystems*, *PLOS ONE*, *Plant and Soil*,
Sustainability, *African J. of Range and Forage Science*

Sustainability Leadership Fellow

2014-2015

School of Global Environmental Sustainability
Colorado State University, Fort Collins, Colorado

Forum organizer

2014-2015

Graduate Student Forum
Colorado State University, Fort Collins, Colorado

Graduate Student Representative

2013-2014

Graduate Degree Program in Ecology Executive Committee
Colorado State University, Fort Collins, Colorado

Discussion panel organizer

2011

Front Range Student Ecology Symposium
Colorado State University, Fort Collins, Colorado