

CURRICULUM VITAE

NAME

Schipanski, Meagan Erin

ADDRESS

Soil and Crop Sciences
College of Agricultural Sciences

Plant Sciences

PHONE

(970) 491-1320

EDUCATION

2009 Ph D, Cornell University

1995 BA, Oberlin College

ACADEMIC POSITIONS

January 2014 - Present Assistant Professor, Colorado State University.

November 2010 - December 2013 Postdoctoral Scholar, The Pennsylvania State University.

September 2009 - October 2010 Postdoctoral Fellow, McGill University.

2003 - 2009 Graduate Research Assistant, Cornell University.

PUBLISHED WORKS

Refereed Journal Articles

Schipanski, M., MacDonald, G., Rosenzweig, S., Chapell, M. J., Bennett, E., Bezner-Kerr, R., Blesh, J., Crews, T., Drinkwater, L., Lundgren, J., Schnarr, C. M. Realizing resilient food systems. *BioScience*.

Crews, T., Blesh, J., Culman, S., Hayes, R., Steen-Jensen, E., Mack, M., Peoples, M., Schipanski, M. Going where no grains have gone before: From early to mid-succession. *Agriculture, Ecosystems, and Environment*.

Schipanski, M., Barbercheck, M., Douglas, M. R., Finney, D. M., Haider, K., Kaye, J. P., Kemanian, A. R., Mortensen, D. A., Ryan, M. R., Tooker, J., White, C. (2014). A framework for evaluating ecosystem services provided by cover crops in agroecosystems. *Agricultural Systems*, 125, 12–22.

Schipanski, M., Smith, R., Gareau, T., Jabbour, R., Lewis, D., Barbercheck, M., Mortensen, D., Kaye, J. (2014). Multivariate relationships influencing crop yields during the transition to organic management. *Agriculture, Ecosystems & Environment*, 189, 119–126.

Riskin, S. H., Porder, S., Schipanski, M., Bennett, E. M., Neill, C. (2013). Regional differences in phosphorus budgets in intensive soybean agriculture. *BioScience*, 63(1), 49–54.

Schipanski, M., Drinkwater, L. E. (2012). Nitrogen fixation in annual and perennial legume-grass mixtures across a fertility gradient. *Plant and soil*, 357(1-2), 147–159.

Culman, S. W., Snapp, S. S., Freeman, M. A., Schipanski, M., Beniston, J., Lal, R., Drinkwater, L. E., Franzluebbers, A. J., Glover, J. D., Grandy, A. Stuart, others (2012). Permanganate oxidizable carbon reflects a processed soil fraction that is sensitive to management. *Soil Science Society of America Journal*, 76(2), 494–504.

Schipanski, M., Bennett, E. M. (2012). The influence of agricultural trade and livestock production on the global phosphorus cycle. *Ecosystems*, 15(2), 256–268.

Grossman, J., Schipanski, M., Sooksanguan, T., Seehaver, S., Drinkwater, L. (2011). Diversity of rhizobia in soybean [*Glycine max* (Vinton)] nodules varies under organic and conventional management. *Applied Soil Ecology*, 50, 14–20.

Schipanski, M., Drinkwater, L. E. (2011). Nitrogen fixation of red clover interseeded with winter cereals across a management-induced fertility gradient. *Nutrient Cycling in Agroecosystems*, 90(1), 105–119.

M., Drinkwater, L., Russelle, M. (2010). Understanding the variability in soybean nitrogen fixation across agroecosystems. *Plant and soil*, 329(1-2), 379–397.

Refereed Chapters in Books

Schipanski, M., Bennett, E. (2012). Phosphorus. In K.C. Weathers, D.L. Strayer, G.E. Likens (Ed.), *Fundamentals of Ecosystem Science*. Waltham, MA: Elsevier Press.

Non-Refereed Journal Articles

Hunter, M., Mortensen, D., Smith, R., Schipanski, M., Atwood, L. Agriculture in 2050: Recalibrating targets for production and environmental sustainability. *BioScience*.

Rosenzweig, S., Schipanski, M., Kaye, J. Rhizosphere priming of cover crop decomposition. *Soil Biology and Biochemistry*.

Non-Refereed Chapters in Books

Drinkwater, L., Schipanski, M., Snapp, S., Jackson, L. (2008). Ecologically based nutrient management. In S. Snapp and B. Pound (Ed.), *Agricultural Systems: Agroecology and Rural Innovation for Development: Agroecology and Rural Innovation for Development* (pp. 161). San Diego, CA: Academic Press.

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

January 4, 2016, "Cover crops affect weed abundance but not weed community assembly", Northeastern Plant, Pest and Soil Conference, (Presenter) Baraibar, B.

November 17, 2015, "Dryland systems yields over 24 years as impacted by potential ET site and soil landscape position", ASA/CSSA/SSSA Annual Meeting, (Presenter) Ahuja, L.

November 17, 2015, "Rhizosphere priming of cover crop decomposition", ASA/CSSA/SSSA Annual Meeting, (Presenter) Rosenzweig, S.

November 17, 2015, "Systems approach critical to agroecosystems management", ASA/CSSA/SSSA Annual Meeting, (Presenter) Ahuja, L.

November 17, 2015, "The next frontier in cropping systems research analysis: Moving beyond ANOVA",

ASA/CSSA/SSSA Annual Meeting.

March 26, 2015, "Soil amendment application after road construction alters resource availability and can benefit native over non-native species", Science for Parks, Parks for Science, (Presenter) Ringer, L. N.

November 3, 2014, "Diverse cover crop mixtures in organic grain crops: ecology and management for winter-annual weed suppression", ASA/CSSA/SSSA Annual Meeting, ASA/CSSA/SSSA, (Presenter) Hunter, M., Long Beach, CA.

November 3, 2014, "Rotation strategies for balancing multiple management objectives in organic cropping systems", ASA/CSSA/SSSA Annual Meeting, ASA/CSSA/SSSA, (Presenter) Schipanski, M., Long Beach, CA.

November 3, 2014, "Towards a rapid method of measuring labile soil C using infrared spectroscopy", ASA/CSSA/SSSA Annual Meeting, ASA/CSSA/SSSA, (Presenter) Calderon, F., Long Beach, CA.

October 31, 2014, "The nitrogen economy of perennial-based cropping systems", New Roots for Ecological Intensification, The Land Institute, (Presenter) Schipanski, M., Estes Park, CO.

April 2, 2014, "Frameworks for evaluating cover crops in cropping systems", West-Central Great Plains Research Symposium, No-Till on the Plains and Kansas NRCS, (Presenter) Schipanski, M., Hays, KS.

OTHER ACTIVITIES/ACCOMPLISHMENTS – PUBLICATIONS/SCHOLARLY RECORD

(June 2014). Conference Attendance, "Grants Conference," NSF, Denver, CO, United States.

TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2016	Spring	SOCR799 - Dissertation	18	12
2015	Fall	SOCR799 - Dissertation	18	11
2015	Fall	SOCR100 - General Crops	4	61
2015	Fall	SOCR100 - General Crops - Lab	0	22
2015	Fall	SOCR100 - General Crops -Lab	0	21
2015	Fall	SOCR100 - General Crops -Lab	0	18
2015	Fall	ECOL592 - Interdisciplinary Seminar in Ecology	3	14
2015	Fall	SOCR699 - Thesis	18	11
2015	Spring	SOCR530 - Scientific Writing	1	5
2015	Spring	SOCR699 - Thesis	18	14
2014	Fall	SOCR100 - General Crops	4	63
2014	Fall	SOCR100 - General Crops - Lab	0	21
2014	Fall	SOCR100 - General Crops -Lab	0	22
2014	Fall	SOCR100 - General Crops -Lab	0	20

Guest Lectures:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u># of Guest Lectures</u>	<u>Delivery Mode</u>
2015	Fall	FSHN500 - Food Systems, Nutrition, and Food Security	1	Face to Face
2015	Fall	ECOL505 - Foundations of Ecology	2	Face to Face
2015	Spring	SOCR571 - Foundations of Soil Science	1	Face to Face
2014	Fall	Cropping Systems Management & Ecology	1	Distance

2014	Fall	ECOL505 - Foundations of Ecology	2
2014	Spring	SOCR475 - Global Challenges in Plant & Soil Science	1
2014	Spring	SOCR424 - Topics in Organic Agriculture	1

Evidence of Teaching Effectiveness (Annual Input)

Written Comments from Students

Fall 2014, SOCR 100—General Crops

“Really enjoyed Dr. Schipanski as an instructor. I wish I would have the opportunity to be in more of her classes—very easy to get along with and talk to. Very organized and gives us every opportunity to be successful!”

“Dr. Schipanski did a great job teaching the course! I’ve learned more in this class than any other in my time at CSU.”

“You had so much enthusiasm while teaching, had a lot of great teaching ideas... You were my favorite teacher this semester!”

“I thoroughly enjoyed this class. It got me back into agriculture.”

“Dr. Schipanski was an exceptional teacher with much knowledge. Great way for me to start my soil-crop endeavors.”

EXTENSION/ENGAGEMENT ACTIVITIES/ACCOMPLISHMENTS

Newsletter article

Newsletter article: Reframing the discussion about cover crops in semi-arid regions. Adult. Percent Responsible: 100%. 3rd Quarter 2014.

Presentation

Assessing soil quality. Adult, Sterling, CO. Number of times program was made: 1. Total number of participants: 55. Percent Responsible: 100%. 4th Quarter 2014.

COMMITTEES

CSU-Denver International Airport Agriculture and Natural Resource Management Internship Program, (May 2015 - Present).

SoGES Food System Research Team, (July 2015 - May 2016).

Front Range Student Ecology Symposium, (February 25, 2015).

Front Range Student Ecology Symposium, (February 2014).

Future Farmers of America Crops Testing, (May 2014 - Present).

CSU College of Agriculture Ag Ambassadors, (February 25, 2015).

Agronomy Club, (September 2015 - Present).

Seed Technology and Education Program Committee, (January 2014 - December 2015).

Dept of Soil and Crop Sciences Seminar, (March 2015).

Agricultural Systems Faculty Search Committee, (March 2014 - September 2014).

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Ecological Society of America. (January 2005 - Present).

Agronomy Society of America. (September 2003 - Present).

Soil Science Society of America. (September 2003 - Present).

Crop Science Society of America. (September 2003 - December 2015).

Sustainable Agriculture Education Association. (January 2009 - January 2015).

The Collegian. (October 12, 2015).

AgInfo. (October 6, 2015).

Rocky Mountain PBS. (July 17, 2015).

The Collegian. (February 19, 2015).

KRVN Radio. (January 28, 2015).

The Denver Post. (September 2, 2014).

Science Friday, Public Radio International. (August 15, 2014).

The Academic Minute. (June 24, 2014).

Crop Science Society of America. (June 16, 2014).

Penn State University. (March 18, 2014).

Committee Member, SSSA Gary "Pete" Peterson Dryland Soil Management Scholarship. (January 2015 - December 2015).

Reviewer, Journal Article, Environmental Research Letters. (November 2015).

Reviewer, Journal Article, Global Change Biology. (November 2015).

Reviewer, Journal Article, Nature. (July 2015).

Reviewer, Journal Article, Agronomy Journal. (May 2015).

Reviewer, Journal Article, Agriculture, Ecosystems, and Environment. (February 2015).

Reviewer, Journal Article, Ecology Letters. (February 2015).

Reviewer, Journal Article, Elementa. (November 2014).

Reviewer, Journal Article, Ecology Letters. (October 2014).

Reviewer, Journal Article, Journal of Advances in Modeling Earth Systems. (September 2014).

Reviewer, Journal Article, Plant and Soil. (September 2014).

Reviewer, Journal Article, Environmental Research Letters. (July 2014).

Reviewer, Journal Article, SOIL. (June 2014).

Reviewer, Journal Article, Nutrient Cycling in Agroecosystems. (May 2014).

Reviewer, Journal Article, Global Biogeochemical Cycles. (March 2014).

Reviewer, Journal Article, Environmental Science and Technology. (February 2014).

Reviewer, Journal Article, Plant and Soil. (February 2014).

OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

Reviewer, Program, USDA-ARS Central Great Plains Focus Group Meeting. (January 21, 2016).

Reviewer, Program, USDA-ARS Water Management Unit Focus Group Meeting, Greeley, CO. (August 21, 2015).

Invited speaker, ASA/CSA/SSSA Webinar: Setting yourself up for success in the postdoc. (January 14, 2015).

Program Organizer, Building Soil Health in the Dryland Cropping Systems, Denver, CO. (September 2015 - Present).

Guest Speaker, Independent Agricultural Consultants of Colorado, Denver, CO. (January 12, 2016).

K-12 Outreach, Rocky Mountain High School Shadow a Professional. (November 2015).

Guest Speaker, High Plains No-Till Conference, Burlington, CO. (February 3, 2015 - February 4, 2015).

Guest Speaker, No-Till on the Plains Conference, Salina, KS. (January 27, 2015 - January 28, 2015).

Discussant, Colorado State University School for Global Environmental Sustainability, Fort Collins, CO. (November 12, 2014).

Guest Speaker, Natural Resource Conservation Service, Salina, KS. (May 13, 2014).
