

CURRICULUM VITAE

NAME

Norton, Andrew P

ADDRESS

Bioagricultural Sciences and Pest Management
College of Agricultural Sciences

Plant Sciences
1177 Campus Delivery

PHONE

(970) 491-7421

EDUCATION

1995 Ph D, University of California, Berkeley

1985 BA, University of California, Santa Cruz

ACADEMIC POSITIONS

July 2002 - June 2008 Assistant Professor, BSPM, Colorado State University.

July 2000 - June 2002 Research Associate / Assistant Professor, Special Appointment, BSPM, Colorado State University.

September 1988 - June 1995 Graduate Research Associate, Department of Entomology, University of California, Berkeley.

OTHER POSITIONS

July 2008 - Present Associate Professor, BSPM, Colorado State University.

June 1995 - June 2000 Post-Doctoral Researcher, Department of Entomology, Cornell University NYSAES.

PUBLISHED WORKS

Books

Biological control of leafy spurge. USDA-USFS FHTET-Publications, 2005-07 125 pp.

Refereed Journal Articles

Herbivory and novel weapons. *Biol Invasions*, 10, 79-88.

Host-plant preference of *Brachypterolus pulicarius*, an inadvertently introduced biological control insect of toadflaxes. *Entomol Exp Appl*, 116, 183-189.

Lack of trade-off between direct and indirect defense against grape powdery mildew in riverbank grape. *Ecological Entomology*, 31(5), 415-422.

- Microsatellite isolation from the gall midge *Spurgia capitigena* (Diptera). *Mol Ecol Notes*, 4, 605-607.
- Pre- and post-introduction patterns in neutral genetic diversity in the leafy spurge gall midge, *Spurgia capitigena* (Bremi) (Diptera). *Biol Control*, 33, 153-164.
- Selenium accumulation protects *Brassica juncea* from invertebrate herbivory and fungal infection. *New Phytol*, 159, 461-469.
- Spatially contingent interactions between an exotic and native plant mediated through flower visitors. *Oikos*, 118, 107-114.
- Status of Russian olive biological control in North America. *Ecological Restoration*, 26, 105-107.
- Survey of *Lygus* spp and an associated parasitoid, *Leiophron uniformis* (Gahan) in Colorado. *Southwestern Entomologist*, 30(1), 5-Sep.
- The relative performance of indel-coding methods in simulations. *Mol Phylogenet Evol*, 44, 724-740.
- Tri-trophic interactions among grapevines, a fungal pathogen and a mycophagous mite. *Ecological Applications*, 15(5), 1679-168.
- Very small sheep:How tydeid mites interact with powdery mildews and plant hosts. *Phytopathology*, 97, S141-S141.
- Tuttle, G. M., Katz, G. L., Friedman, J. M., Norton, A. P. Ecological context mediates the impact of an exotic tree in heterogeneous riparian ecosystems. Submitted to. *Biological Invasions*.
- Gilman, N. V., Sagas, J., Norton, A. P., Camper, M. A. Information literacy instruction in a first year agriculture science course. *Library Trends*.
- Cariveau, D. P., Norton, A. P. (2014). Direct effects of a biocontrol agent are greater than indirect effects through flower visitors for the alien plant Dalmatian toadflax (*Linaria dalmatica*: Scrophulariaceae). *BIOLOGICAL INVASIONS*, 16(9), 1951-1960.
- Simmons, M. P., Norton, A. P. (2014). Divergent maximum-likelihood-branch-support values for polytomies. *MOLECULAR PHYLOGENETICS AND EVOLUTION*, 73, 87-96.
- Williams, W. I., Friedman, J. M., Gaskin, J. F., Norton, A. P. (2014). Hybridization of an invasive shrub affects tolerance and resistance to defoliation by a biological control agent. *EVOLUTIONARY APPLICATIONS*, 7(3), 381-393.
- Katz, G. L., Hardin, J. G., Tuttle, G. M., Norton, A. P. (2014). Russian olive alters riparian ecosystems on the South Fork of the Republican River. *Weed Watch*, 30(1), 17-19.
- Bright, D. E., Kondratieff, B. C., Norton, A. P. (2013). First record of the "splendid tamarisk weevil", *Coniatus splendidulus* F. (Coleoptera: Curculionidae: Hyperinae), in Colorado. *The Coleopterists Bulletin*, 67(3), 1-2.
- Simmons, M. P., Norton, A. P. (2013). Quantification and relative severity of inflated branch-support values generated by alternative methods: an empirical example. *Molecular Phylogenetics and Evolution*, 67(1), 277-296.
- Wilbur, H., Alba, C., Norton, A. P., Hufbauer, R. A. (2013). The effect of insect herbivory on the growth and fitness of introduced *Verbascum thapsus*. *NeoBiota*, 19, 21 - 44.

- Williams, W., Norton, A. P. (2012). Native stem boring beetle (Coleoptera: Bostrichidae) highly prefers invasive Tamarix over native tree. *Southwestern Naturalist*, 57(1), 108-111.
- Blumenthal, D. M., Norton, A. P., Tim, S. R. (2012). Restoring competitors and natural enemies for long-term control of plant invaders. *Rangelands*, 32(1), 16-20.
- Blumenthal, D. M., Norton, A. P., Cox, S. E., Hardy, E. M., Liston, G. E., Kennaway, L., Booth, D. T., Derner, J. D. (2012). *Linaria dalmatica* invades south-facing slopes and less grazed areas ingrazing-tolerant mixed-grass prairie. *BIOLOGICAL INVASIONS*, 14(2), 395-404.
- Simmons, M. P., Müller, K. P., Norton, A. P. (2007). Alignment of, and phylogenetic inference from, random sequences: The susceptibility of alternative alignment methods to creating artifactual resolution and support. *Molecular Phylogenetics and Evolution*, 57, 1004-1016.
- MacKinnon, D. K., Hufbauer, R. A., Norton, A. P. (2007). Evaluating host use of an accidentally introduced herbivore on two invasive toadflaxes. *Biological Control*, 41, 184-189.
- English-Loeb, G. M., Norton, A. P., Gadoury, D. M., Seem, R., Wilcox, W. (1999). Biological control of grape powdery mildew using mycophagous mites. *Plant Disease*, 91(4), 421-429.

Non-Refereed Journal Articles

- Cariveau, D. P., Norton, A. P. (2009). Spatially contingent interactions between an exotic and native plant mediated through flower visitors. *OIKOS*, 118(1), 107-114.
- Norton, A. P., Blair, A. C., Hardin, J. G., Nissen, S. J., Brunk, G. R. (2008). Herbivory and novel weapons: no evidence for enhanced competitive ability or allelopathy induction of *Centaurea diffusa* by biological controls. *BIOLOGICAL INVASIONS*, 10(1), 79-88.
- Simmons, M. P., Mueller, K., Norton, A. P. (2007). The relative performance of indel-coding methods in simulations. *MOLECULAR PHYLOGENETICS AND EVOLUTION*, 44(2), 724-740.
- Gadoury, D. M., Eem, R. C. S., Wilcox, W. F., Loeb, G., Norton, A. P., Melidossia, H. (2007). Very small sheep: How Tydeid mites interact with powdery mildews and plant hosts. *PHYTOPATHOLOGY*, 97(7, S), S141.
- English-Loeb, G., Norton, A. P., Gadoury, D., Seem, R., Wilcox, W. (2007). Biological control of grape powdery mildew using mycophagous mites. *PLANT DISEASE*, 91(4), 421-429.
- English-Loeb, G., Norton, A. P. (2006). Lack of trade-off between direct and indirect defence against grape powdery mildew in riverbank grape. *ECOLOGICAL ENTOMOLOGY*, 31(5), 415-422.
- English-Loeb, G., Norton, A. P., Gadoury, D., Seem, R., Wilcox, W. (2005). Tri-trophic interactions among grapevines, a fungal pathogen, and a mycophagous mite. *ECOLOGICAL APPLICATIONS*, 15(5), 1679-1688.
- MacKinnon, D., Hufbauer, R. A., Norton, A. P. (2005). Host-plant preference of *Brachypterolus pulicarius*, an inadvertently introduced biological control insect of toadflaxes. *ENTOMOLOGIA EXPERIMENTALIS ET APPLICATA*, 116(3), 183-189.

- Lloyd, C., Hufbauer, R. A., Jackson, A., Nissen, S. J., Norton, A. P. (2005). Pre- and post-introduction patterns in neutral genetic diversity in the leafy spurge gall midge, *Spurgia capitigena* (Bremi) (Diptera : Cecidomyiidae). *BIOLOGICAL CONTROL*, 33(2), 153-164.
- Demirel, N., Cranshaw, W. S., Norton, A. P. (2005). Survey of *Lygus* spp. and an associated parasitoid, *Leiophron uniformis* (Gahan), in Colorado. *SOUTHWESTERN ENTOMOLOGIST*, 30(1), 9-15.
- Lloyd, C., Norton, A. P., Hufbauer, R. A., Bogdanowicz, S., Nissen, S. J. (2004). Microsatellite isolation from the gall midge *Spurgia capitigena* (Diptera : Cecidomyiidae), a biological control agent of leafy spurge. *MOLECULAR ECOLOGY NOTES*, 4(4), 605-607.
- Hanson, B., Garifullina, G., Lindblom, S., Wangeline, A., Ackley, A., Kramer, K., Norton, A. P., Lawrence, C., Pilon-Smits, E. (2003). Selenium accumulation protects *Brassica juncea* from invertebrate herbivory and fungal infection. *NEW PHYTOLOGIST*, 159(2), 461-469.
- English-Loeb, G., Norton, A. P., Walker, M. (2002). Behavioral and population consequences of acarodomatia in grapes on phytoseiid mites (Mesostigmata) and implications for plant breeding. *ENTOMOLOGIA EXPERIMENTALIS ET APPLICATA*, 104(2-3), 307-319.
- Norton, A. P., English-Loeb, G., Belden, E. (2001). Host plant manipulation of natural enemies: leaf domatia protect beneficial mites from insect predators. *OECOLOGIA*, 126(4), 535-542.
- Udayagiri, S., Welter, S., Norton, A. P. (2000). Biological control of *Lygus hesperus* with inundative releases of *Anaphes iole* in a high cash value crop. *SOUTHWESTERN ENTOMOLOGIST*(23), 27-38.
- Udayagiri, S., Norton, A. P., Welter, S. (2000). Integrating pesticide effects with inundative biological control: interpretation of pesticide toxicity curves for *Anaphes iole* in strawberries. *ENTOMOLOGIA EXPERIMENTALIS ET APPLICATA*, 95(1), 87-95.
- Norton, A. P., English-Loeb, G., Gadoury, D., Seem, R. (2000). Mycophagous mites and foliar pathogens: Leaf domatia mediate tritrophic interactions in grapes. *ECOLOGY*, 81(2), 490-499.
- English-Loeb, G., Norton, A. P., Gadoury, D., Seem, R., Wilcox, W. (1999). Control of powdery mildew in wild and cultivated grapes by a tydeid mite. *BIOLOGICAL CONTROL*, 14(2), 97-103.
- Norton, A. P., Welter, S. (1996). Augmentation of the egg parasitoid *Anaphes iole* (Hymenoptera: Mymaridae) for *Lygus hesperus* (Heteroptera: Miridae) management in strawberries. *ENVIRONMENTAL ENTOMOLOGY*, 25(6), 1406-1414.
- Norton, A. P., WASHBURN, J., OMI, E. (1992). AXENIC CULTURE OF *LAMBORNELLA-CLARKI* (CILIOPHORA, TETRAHYMENIDAE), AN ENDOPARASITE OF *Aedes sierrensis* (DIPTERA, CULICIDAE). *JOURNAL OF INVERTEBRATE PATHOLOGY*, 60(2), 164-170.
- Norton, A. P., Welter, S. C., Flexner, J. L., Jackson, C. G., Debolt, J. W., Pickel, C. (1992). Parasitism of *Lygus hesperus* (Miridae) by *Anaphes iole* (Mymaridae) and *Leiophron uniformis* (Braconidae) in California Strawberry. *BIOLOGICAL CONTROL*, 2(2), 131-137.

Non-Refereed Chapters in Books

Norton, A. P. *Developing a management plan* (pp. 18-25). Nissen S, Sher A, and Norton A (Eds) *Tamarisk: Best management practices in Colorado watersheds* Colorado State University.

Norton, A. P., Bean, D. (2010). Biological control. In Nissen S and Sher A and Norton A (Ed.), *Tamarisk: Best management practices in Colorado watersheds* (pp. 50-57). Colorado State University.

Sher, A., Norton, A. P., Nissen, S. J. (2010). Why is tamarisk a problem? In Nissen S, Sher A, and Norton A (Ed.), *Tamarisk: Best management practices in Colorado watersheds* (pp. 6-9). Colorado State University.

Non-Refereed Proceedings or Transactions

Tuttle, G. M., Katz, G. L., Norton, A. P. (2014). *Ecosystem impacts of Russian olive are strongly mediated by ecological context*. 3rd Northern Rockies Invasive Plant Council Conference: Russian olive and flowering rush symposium.

Differences in growth and herbivore resistance in hybrid populations of the invasive tamarisk (Tamarix sp) in the western United States. 13th International Symposium on the Biological Control of Weeds, Waikoloa, Hawaii.

Drought and herbivory interact on populations of the invasive weed Tamarix sp. (Abstract) Entomological Society of America 58th Annual Meeting November 12-15, San Diego, CA.

Evaluating Diorhabda carinulata releases against Tamarix spp in Colorado. (Abstract) 19th High Altitude Revegetation Workshop March 2-4.

Evaluation of D elongata releases in Colorado. Report to the Colorado Department of Agriculture.

Evolution of Tamarix spp influences the outcome of a biological control system. Entomological Society of America 59th Annual Meeting, Reno, Nevada.

Final Report: Monitoring Saltcedar (Tamarix) Biological Control (Diorhabda carinulata) Insectary Establishment in Dinosaur National Monument 2005 - 2010. Report to National Park Service, Dinosaur National Monument 44 pp.

Monitoring Diorhabda elongata establishment in Colorado. Report to the National Park Service, Dinosaur National Monument.

Russian olive (Elaeagnus angustifolia) impacts on soil N, light, and plant community structure in eastern Colorado. Ecological Society of America Annual Meeting Portland, OR.

The interaction between drought and herbivory by a biological control agent on populations of the invasive shrub Tamarix sp. 13th International Symposium on the Biological Control of Weeds, Waikoloa, Hawaii.

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

November 2015, "Plant plasticity in response to insect herbivory differs between native and introduced populations of Verbascum thapsus", 2015 Annual Meeting of the Entomological Society of America, Entomological Society of America, (Presenter) Endriss, S. B.

November 2015, "Are there predictable differences in how plants defend their leaves?", Graduate Student

Showcase, Colorado State University.

August 2015, "Floral plasticity in response to herbivory differs between native and introduced plant populations", 2015 Annual Meeting of the Ecological Society of America, Ecological Society of America, (Presenter) Endriss, S. B., peer-reviewed/refereed.

March 24, 2015, "Constructing a database of biocontrol agents of insect pests", APHIS CPHST, (Presenter) Anderson, A. G.

February 25, 2015, "Floral attractiveness differs between native and introduced *Verbascum thapsus* populations", Graduate Student Showcase, Colorado State University.

November 19, 2014, "Are we getting better at this? An examination of biocontrol establishment and success rates through time.", 62nd Annual Meeting of the Entomological Society of America, (Presenter) Anderson, A., Portland, OR.

November 15, 2014, "Conservation grasslands support diverse native bee assemblages in agroecosystems", Entomological Society of American Annual Meeting, Entomological Society of America, (Presenter) Adrian, C., Portland OR.

October 2014, "Grasslands in Colorado agroecosystems support diverse native bee assemblages", USDA-NIFA AFRI Sustainable Bioenergy Annual Project Director (PD) Meeting, USDA-AFRI, (Presenter) Jamieson, M. A., Washington, DC, peer-reviewed/refereed.

October 2014, "An assessment of US insect biological control introductions from 1979-2009: results from the USDA-ARS ROBO database.", W-3185 Annual Meeting, (Presenter) Anderson, A., Kauai, Hawaii, peer-reviewed/refereed.

September 21, 2014, "Does a shift from specialist to generalist herbivory drive evolution of North American populations of *Verbascum thapsus*?", Guild of Rocky Mountain Ecologists and Evolutionary Biologists (GREEBs), Guild of Rocky Mountain Ecologists and Evolutionary Biologists (GREEBs), (Presenter) Endriss, S. B., Bellvue, CO.

August 13, 2014, "The role of different enemy regimes in the evolution of North American versus European *Verbascum thapsus*", Ecological Society of America Annual Meeting, Ecological Society of America, (Presenter) Endriss, S. B., Sacramento CA.

May 22, 2014, "Are differences between populations of *Verbascum thapsus* explained by a shift from specialist to generalist herbivores?. Poster presentation", 4th International Symposium on Weeds and Invasive Plants, (Presenter) Endriss, S. B., Montpellier, France.

May 22, 2014, "Leaf traits associated with rapid resource acquisition and growth are greater in native than introduced genotypes of an invasive weed", 4th International Symposium on Weeds and Invasive Plants, (Presenter) Alba, C., Montpellier, France.

March 2014, "Ecosystem Impacts of Russian olive and strongly mediated by ecological context", 3rd Northern Rockies Invasive Plant Council Conference: Russian olive and flowering rush symposium, Northern Rockies Invasive Plant Council, (Presenter) Tuttle, G. M., Spokane, WA.

February 19, 2014, "Does the relative composition of specialist versus generalist enemies drive evolution? A reciprocal common garden experiment using *Verbascum thapsus*", Front Range Student Ecology Symposium, Colorado State University, (Presenter) Endriss, S. B., Fort Collins.

- February 18, 2014, "Russian olive's impacts are mediated by environmental heterogeneity", Front Range Student Ecology Symposium, Colorado State University, (Presenter) Tuttle, G. M., Fort Collins CO.
- August 4, 2013, "Plains cottonwood and Russian olive response to elevated CO₂, root nodulation and nitrogen fertilization", Ecological Society of America Annual Meeting, Ecological Society of America, (Presenter) Tuttle, G., Portland OR, peer-reviewed/refereed.
- May 23, 2013, "Information Literacy = Critical Thinking", 2013 TILT Summer Conference on Learning, Teaching and Critical Thinking, TILT, (Presenter) Bullington, J., Cranston, C., Norton, A. P., Sagas, J., Camper, M. A., Mackie, A., Colorado State University.
- April 27, 2013, "Managing the pressures and priorities of graduate school", Graduate School Professional Series Mini-Conference: Striking a Balance and Leaping into Your Future, Fort Collins.
- 2011, "Estimating target and non-target effects of *Diorhabda carinulata*, a biological control agent of *Tamarix* in North America. Norton, AP, Williams, W, Thuis, A, Hardin, J. 13th International Symposium on the Biological Control of Weeds, Waikoloa, Hawaii.", (Presenter) Norton, A. P., Hawaii, peer-reviewed/refereed.
- 2011, "Williams, W.I. and A.P. Norton. 2011. The interaction between drought and herbivory by a biological control agent on populations of the invasive shrub *Tamarix* sp. 13th International Symposium on the Biological Control of Weeds, Waikoloa, Hawaii.", peer-reviewed/refereed.
- 2011, "Williams, W.I., A.P. Norton, J. Friedman, J. Gaskin, and B. Li. 2011. Differences in growth and herbivore resistance in hybrid populations of the invasive tamarisk (*Tamarix* sp.) in the western United States. 13th International Symposium on the Biological Control of Weeds, Waikoloa, Hawaii.", peer-reviewed/refereed.
- 2011, "Williams, W.I., A.P. Norton, J. Friedman, J. Gaskin, and B. Li. 2011. Hybridization of tamarisk (*Tamarix* sp.) explains differences in herbivore damage by the biological control agent, *Diorhabda carinulata*. W2185 annual meeting, Estes Park, Colorado".
- 2011, "Williams, W.I., J. Gaskin, J. Friedman, and A.P. Norton. 2011. Evolution of *Tamarix* spp. influences the outcome of a biological control system. Entomological Society of America 59th Annual Meeting, Reno, Nevada", peer-reviewed/refereed.
- 2010, "Norton, AP. 2010. Evaluating *Diorhabda carinulata* releases against *Tamarix* spp. in Colorado. 19th High Altitude Revegetation Workshop. March 2 - 4."
- 2010, "Norton, AP. 2010. Re-introducing *Rhynusa linariae* for yellow toadflax. The 2nd Conference on Invasive Species in Natural Areas, sponsored by the Northern Rockies Invasive Plant Council. October 25 - 29, Coeur d Alene, ID."

2010, "Williams, W. Norton, A. 2010. Drought and herbivory interact on populations of the invasive weed Tamarix sp. Entomological Society of America 58th Annual Meeting. November 12 - 15, San Diego, CA."

2010, "Williams, WI Norton, AP and Tisserat, N. 2010. A native herbivore and its associated fungi may inhibit the invasive plant tamarisk. Front Range Student Ecology Symposium (FRSES), Fort Collins, Colorado".

OTHER ACTIVITIES/ACCOMPLISHMENTS – PUBLICATIONS/SCHOLARLY RECORD

(January 11, 2016). Continuing Education Program, "eaching effectiveness: tips on pursuing excellence in teaching and learning," CSU PDI, Fort Collins, CO, United States. Approximate Number of Hours Spent Per Year: 2.

(January 11, 2016). Continuing Education Program, "Simple Steps to Measure the Effectiveness of Teaching Innovation," CSU PDI, Fort Collins, CO, United States.

(November 2015). Professional Meeting, "W3185 - Biological Control in the Western US," Bozeman, MT, United States. Approximate Number of Hours Spent Per Year: 16.

(November 2014). Conference Attendance, "2014 Entomological Society of America Annual Meeting," Entomological Society of America, Portland, OR.

(October 2014). Professional Meeting, "W3185 Biological Control in the Western US," Poipu, Kauai.

(September 29, 2014). Workshop, "Global Learning: Interactive Course and Curriculum Design," Office of International Programs, Colorado State University, United States.

(November 2013). Conference Attendance, "2013 Entomological Society of America Annual Meeting," Entomological Society of America, Austin, TX.

(October 2013). Professional Meeting, "W3185 Biological Control in the Western US," Jackson, WY.

(October 19, 2013 - October 21, 2013). Continuing Education Program, "FastTrack Leadership Intensive," FastTrack, Inc., Chapel Hill, NC. Approximate Number of Hours Spent Per Year: 30.

(May 23, 2013). Continuing Education Program, "2013 TILT Summer Conference on Learning, Teaching and Critical Thinking," TILT - CSU.

TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2016	Spring	ECOL799 - Dissertation	18	21
2016	Spring	AGRI116 - Plants and Civilizations (GT-SS3)	3	115
2016	Spring	AGRI116 - Plants and Civilizations (GT-SS3)	3	45
2016	Spring	IE116 - Plants and Civilizations (GT-SS3)	3	112
2016	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2016	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	13

2015	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2015	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2015	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2015	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2015	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2015	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2015	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	9
2015	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2015	Fall	AGRI116 - Plants and Civilizations (GT-SS3) -Recitation	0	11
2015	Fall	AGRI116 - Plants and Civilizations (GT-SS3) -Recitation	0	10
2015	Fall	AGRI116 - Plants and Civilizations (GT-SS3) -Recitation	0	11
2015	Fall	AGRI116 - Plants and Civilizations (GT-SS3) -Recitation	0	13
2015	Fall	AGRI116 - Plants and Civilizations (GT-SS3) -Recitation	0	12
2015	Fall	IE116 - Plants and Civilizations (GT-SS3)-Recitation	0	11
2015	Spring	BSPM799 - Dissertation	18	2
2014	Fall	BSPM799 - Dissertation	18	5
2014	Fall	BSPM596 - Group Study	3	1
2014	Spring	BSPM799 - Dissertation	18	5
2014	Spring	BSPM495 - Independent Study	3	5
2014	Spring	AGRI116 - Plants and Civilizations (GT-SS3)	3	128
2014	Spring	IE116 - Plants and Civilizations (GT-SS3)	3	98
2014	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	15
2014	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2014	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	15
2014	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2014	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2014	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2014	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2014	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	15
2014	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	15
2014	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2014	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2014	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	3
2014	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	7
2014	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2014	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2014	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2014	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2014	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	9
2014	Spring	BSPM784 - Supervised College Teaching	3	1
2013	Fall	BSPM799 - Dissertation	18	4
2013	Spring	AGRI116 - Plants and Civilizations (GT-SS3)	3	117
2013	Spring	IE116 - Plants and Civilizations (GT-SS3)	3	102
2013	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2013	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2013	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2013	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2013	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2013	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2013	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	15
2013	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2013	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2013	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	14

2013	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2013	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2013	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2013	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2013	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2013	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	7
2013	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2013	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	5
2013	Spring	BSPM792 - Seminar	2	9
2013	Spring	BSPM784 - Supervised College Teaching	3	2
2013	Spring	BSPM699 - Thesis	18	6
2012	Fall	BSPM495 - Independent Study	3	6
2012	Fall	ECOL698 - Research	18	55
2012	Fall	BSPM492 - Seminar	3	2
2012	Fall	BSPM792 - Seminar	2	8
2012	Spring	BSPM799 - Dissertation	18	7
2012	Spring	BSPM495 - Independent Study	3	3
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3)	3	142
2012	Spring	IE116 - Plants and Civilizations (GT-SS3)	3	111
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	10
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	10
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	12
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	3
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	3
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	8
2012	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	7
2012	Spring	ECOL698 - Research	18	58
2011	Fall	BSPM799 - Dissertation	18	7
2011	Fall	ECOL592 - Interdisciplinary Seminar in Ecology	3	12
2011	Fall	ECOL698 - Research	18	45
2011	Fall	BSPM784 - Supervised College Teaching	3	2
2011	Spring	AGRI116 - Plants and Civilizations (GT-SS3)	3	124
2011	Spring	IE116 - Plants and Civilizations (GT-SS3)	3	90
2011	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	15
2011	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2011	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	13

2010	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	15
2010	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2010	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	15
2010	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	16
2010	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2009	Fall	BSPM596 - Group Study	3	4
2009	Fall	BSPM495 - Independent Study	3	2
2009	Fall	AGRI116 - Plants and Civilizations (GT-SS3)	3	131
2009	Fall	IE116 - Plants and Civilizations (GT-SS3)	3	129
2009	Fall	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	18
2009	Fall	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2009	Fall	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	16
2009	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	10
2009	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	10
2009	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	39
2009	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	18
2009	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2009	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	16
2009	Fall	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2009	Fall	AGRI116 - Plants and Civilizations (GT-SS3) -Recitation	0	19
2009	Fall	AGRI116 - Plants and Civilizations (GT-SS3) -Recitation	0	13
2009	Fall	AGRI116 - Plants and Civilizations (GT-SS3) -Recitation	0	19
2009	Fall	AGRI116 - Plants and Civilizations (GT-SS3) -Recitation	0	14
2009	Fall	AGRI116 - Plants and Civilizations (GT-SS3) -Recitation	0	19
2009	Fall	IE116 - Plants and Civilizations (GT-SS3)-Recitation	0	14
2009	Fall	BSPM698 - Research	18	9
2009	Fall	BSPM798 - Research	18	10
2009	Fall	BSPM584 - Supervised College Teaching	3	1
2009	Spring	BSPM487 - Internship	18	1
2009	Spring	AGRI116 - Plants and Civilizations (GT-SS3)	3	124
2009	Spring	IE116 - Plants and Civilizations (GT-SS3)	3	116
2009	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	15
2009	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2009	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2009	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2009	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2009	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2009	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2009	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	15
2009	Spring	AGRI116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2009	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	11
2009	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	16
2009	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2009	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	15
2009	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	13
2009	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2009	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2009	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	14
2009	Spring	IE116 - Plants and Civilizations (GT-SS3) - Recitation	0	6
2009	Spring	BSPM698 - Research	18	8
2009	Spring	BSPM784 - Supervised College Teaching	3	1
2008	Fall	BSPM302 - Applied and General Entomology	2	111
2008	Fall	ECOL799 - Dissertation	18	12

2008	Fall	BSPM798 - Research	18	11
2008	Fall	BSPM584 - Supervised College Teaching	3	2
2008	Spring	ECOL799 - Dissertation	18	14
2008	Spring	BSPM487 - Internship	18	1
2007	Fall	BSPM302 - Applied and General Entomology	2	89
2007	Fall	ECOL799 - Dissertation	18	18

Guest Lectures:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u># of Guest Lectures</u>	<u>Delivery Mode</u>
2015	Fall	BSPM581A1 - BSPM Foundations	1	Face to Face
2015	Fall	HORT462 - Viticulture	1	
2015	Spring	BSPM451/551 - Integrated Pest Management	1	Face to Face
2013	Fall	HORT462 - Viticulture	1	
2013	Spring	BSPM451/551 - Integrated Pest Management	2	Face to Face

EXTENSION/ENGAGEMENT ACTIVITIES/ACCOMPLISHMENTS

Field Day

Effects of Russian olive removal on species diversity. Adult, Barr Lake, Colorado. Number of times program was made: 1. Total number of participants: 150. Percent Responsible: 75%. 4th Quarter 2014.

Presentation

Weed biological control. Adult, Loveland, Co. Number of times program was made: 1. Total number of participants: 40. Percent Responsible: 100%. 2nd Quarter 2014.

Environmental impact and management of Russian olive. Colorado Springs, CO. Total number of participants: 350. Percent Responsible: 100%. 2013.

Introduction to weed biological control. Fort Collins, CO. Number of times program was made: 1. Total number of participants: 300. Percent Responsible: 100%. 2013.

Workshop

Weed Biological Control. Loveland, CO. Number of times program was made: 1. Total number of participants: 40. Percent Responsible: 100%. 2013.

COMMITTEES

Mater Teacher Initiative coordinator, (August 2015 - Present).

NSF Global Invasions Research Coordination Network.

NSF Global Invasions Research Coordination Network.

Toadflax Biological Control Consortium.

USDA-APHIS-PPQ Center for Plant Health, Science and Technology.

W2185 Committee.

BSPM Strategic Visioning Committee, (November 2015 - Present).

BSPM Executive Committee, (August 2015 - Present).

BSPM Education Committee, (August 2014 - Present).

Toadflax Biological Control Consortium, Chair (USA)., (2006 - Present).

USDA-APHIS-PPQ Center for Plant Health, Science, and Technology, National Weed Management Laboratory, (2005 - Present).

Program Committee Co-Chair, Entomological Society of America Annual Meeting., (2011 - 2012).

Entomological Society of America Annual Meeting, (2010 - 2011).

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Entomological Society of America.

Entomological Society of America.

Entomological Society of America.

Entomological Society of America.

TILT - Let's talk teaching program. (2009 - Present).

Committee Chair, Education Committee. (2005 - Present).

Invasive Species Research site. (2002 - Present).

Reviewer, Grant Proposal, USDA-NIFA-AFRI, Washington, DC. (September 8, 2014 - September 12, 2014).

ISBCW, Waikoloa, HI. (April 2013 - December 2013).

Reviewer, Grant Proposal, USDA-NIFA-AFRI, Washington, DC. (2013).

Member, Executive Committee. (2011 - 2013).

Member, Faculty Council. (2010 - 2013).

Committee Chair, Entomological Society of America. (November 2011 - November 2012).

W 2185, Estes Park, CO. (July 2012 - October 2012).

Committee Chair, Entomological Society of America Annual Meeting. (November 2010 - November 2011).

W 2185, Coeur d'Alene, ID. (February 2011).

Member, College Code Committee. (January 2010 - December 2010).

Committee Member, Entomological Society of America Annual Meeting. (November 2009 - October 2010).

Member, Selection Committee - University Distinguished Teaching Scholars. (February 2009 - June 2009).

Member, Selection Committee - University Distinguished Teaching Scholars. (January 2008 - December 2008).

OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

CSU Maxwell Ranch.
