

Brian J. Schutte, Ph.D.  
Assistant Professor of Weed Physiology  
Dept. Entomology, Plant Pathology and Weed Science  
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## EDUCATION

Ph.D., Horticulture and Crop Science, Ohio State University, 2007

M.S., Horticulture and Crop Science, Ohio State University, 2002

B.A., Botany and Political Science, Miami University, 1999

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## EMPLOYMENT

2011 – current Assistant Professor, Department of Entomology, Plant Pathology and Weed Science, New Mexico State University, Las Cruces, NM

2007 – 2011 Post-doctoral Research Ecologist, USDA-ARS Global Change and Photosynthesis Research Unit, Urbana, IL

2007 Post-doctoral Research Associate, Ohio State University Weed Ecology Laboratory, Columbus, OH

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## JOURNAL ARTICLES \* denotes graduate student author

Landau, C. A. \*, **B. J. Schutte**, A. O. Mesbah, S. V. Angadi. Flixweed (*Descurainia sophia*) shade tolerance and possibilities for flixweed management using canola seeding rate. *Weed Technology* in press

Klypina, N., M. Pinch, **B. J. Schutte**, J. Maruthavanan, T. M. Sterling. Water-deficit stress tolerance differs between two locoweed genera (*Astragalus* and *Oxytropis*) with fungal endophytes. *Weed Science* in press

Flores, A. M. \*, M. K. Shukla, **B. J. Schutte**, D. L. Daniel, A. L. Ulery, R. St. Hilaire. 2017. Physiologic response of six plant species grown in two contrasting soils and irrigated brackish groundwater and RO concentrate. *Arid Land Research and Management* 31:182-203

**Schutte, B. J.** 2017. Measuring interference from mid-season tall morningglory to develop a model for teaching weed seedbank effects on chile pepper. *Weed Technology* 31:155-164

Singla, S. \*, K. Grover, S. V. Angadi, **B. J. Schutte**, D. VanLeeuwen. 2016. Guar stand establishment, physiology, and yield responses to planting date in southern New Mexico. *Agronomy Journal* 108:2289-2300

- Davis, A. S., X. Fu, **B. J. Schutte**, M. A. Berhow, J. W. Dalling. 2016. Interspecific variation in persistence of buried weed seeds follows trade-offs among physiological, chemical and physical seed defences. *Journal of Applied Ecology* 6:6836-6845
- Schutte, B. J.**, N. Klypin, M. K. Shukla. 2016. Influence of irrigation timing on disturbance-induced reductions in soil seedbank density. *Weed Science* 64:613-623
- Flores, A. M.\*, M. K. Shukla, D. Daniel, A. L. Ulery, **B. J. Schutte**, G. A. Picchioni, S. Fernald. 2016. Evapotranspiration changes with irrigation using saline groundwater and RO concentrate. *Journal of Arid Environments* 131:35-45
- Regnier, E. E., S. K. Harrison, M. M. Loux, C. Holloman, R. Venkatesh, F. Diekman, R. Taylor, R. A. Ford, D. E. Stoltenberg, R. G. Hartzler, A. S. Davis, **B. J. Schutte**, J. Cardina, K. J. Mahoney, W. G. Johnson. 2016. Certified crop advisors' perceptions of giant ragweed (*Ambrosia trifida*) distribution, herbicide resistance and management in the Corn Belt. *Weed Science* 64:361-377
- Evans, J. A., P. J. Tranel, A. G. Hager, **B. J. Schutte**, C. Wu, L. A. Chatham, A. S. Davis. 2016. Managing the evolution of herbicide resistance. *Pest Management Science* 72:74-80
- Flores, A. M.\*, **B. J. Schutte**, M. K. Shukla, G. A. Picchioni, A. L. Ulery. 2015. Time-integrated measurements of seed germination for salt-tolerant plant species. *Seed Science and Technology* 43: 541-547
- Schutte B. J.**, A. E. Cunningham\*. 2015. Tall morningglory (*Ipomoea purpurea*) seedbank density effects on pendimethalin control outcomes. *Weed Technology* 29:844-853
- Davis, A. S., **B. J. Schutte**, A. G. Hager, B. G. Young. 2015. Palmer amaranth (*Amaranthus palmeri*) damage niche in Illinois soybean is seed-limited. *Weed Science* 63:658-668
- Schutte, B. J.**, L. Lauriault. 2015. Nutritive value of field bindweed (*Convolvulus arvensis*) roots as a potential livestock feed and the effect of *Aceria malherbae* on root components. *Weed Technology* 29:329-334
- Schutte, B. J.**, A. S. Davis, S. A. Peinado, J. Ashigh. 2014. Seed coat thickness data clarifies seed size-seedbank persistence trade-offs in *Abutilon theophrasti* (Malvaceae). *Seed Science Research* 24:119-131
- Schutte, B. J.**, A. S. Davis. 2014. Do common waterhemp (*Amaranthus rudis*) seedling emergence patterns meet criteria for herbicide resistance simulation modeling? *Weed Technology* 28:408-417
- Schutte, B. J.**, B. J. Tomasek, A. S. Davis, L. Andersson, D. L. Benoit, A. Cirujeda, J. Dekker, F. Forcella, J. L. Gonzalez-Andujar, F. Graziani, A. J. Murdoch, P. Neve, I. A. Rasmussen, B. Sera, J. Salonen, F. Tei, K. S. Torresen, J. M. Urbano. 2014. An investigation to enhance understanding of the stimulation of weed seedling emergence by soil disturbance. *Weed Research* 54:1-12
- Schutte, B. J.**, S.E. Wortman, J. L. Lindquist, A. S. Davis. 2013. Maternal environment effects on phenolic defenses in *Abutilon theophrasti* seeds. *American Journal of Plant Sciences* 4:1127-1133

- Wortman, S. E., A. S. Davis, **B. J. Schutte**, J. L. Lindquist, J. Cardina, J. Felix, C. Sprague, A. Dille, A., Ramirez, G. Reicks, S. A. Clay. 2012. Local conditions, not spatial gradients, drive demographic variation of *Ambrosia trifida* and *Helianthus annuus* across northern U.S. maize belt. *Weed Science* 60:440-450 Awarded most outstanding paper published in Weed Science during 2012.
- Matlaga, D. P., **B. J. Schutte**, A. S. Davis. 2012. Age-dependent vital rates of the bioenergy crop *Miscanthus x giganteus* in Illinois. *Invasive Plant Science & Management* 5:238-248
- Williams II, M. M., **B. J. Schutte**, Y. So. 2012. Maternal corn environment influences wild proso millet (*Panicum miliaceum*) seed characteristics. *Weed Science* 60:69-74
- Schutte, B. J.**, E. E. Regnier, S. K. Harrison. 2012. Seed dormancy and adaptive seedling emergence timing in giant ragweed (*Ambrosia trifida*). *Weed Science* 60:19-26
- Wortman, S. E., A. S. Davis, **B. J. Schutte**, J. L. Lindquist. 2011. Integrating management of soil nitrogen and weeds. *Weed Science* 59:162-170
- Dalling, J. W., A. S. Davis, **B. J. Schutte**, A. E. Arnold. 2011. A framework for a seed defence theory: integrating predation, dormancy and the soil microbial community. *Journal of Ecology* 99:89-95
- Davis, A. S., D. Daedlow, **B. J. Schutte**, P. R. Westerman. 2011. Temporal scaling of episodic point estimates of weed seed predation to long-term predation rates. *Methods in Ecology and Evolution* 2:682-690
- Schutte, B. J.**, A. G. Hager, A. S. Davis. 2010. Respray requests on custom-applied, glyphosate-resistant soybeans in Illinois: how many and why. *Weed Technology* 24:590-598
- Schutte, B. J.**, E. R. Haramoto, A. S. Davis. 2010. Methods for optimizing seed mortality experiments. *Weed Technology* 24:599-606
- Schutte, B. J.**, J. Liu, A. S. Davis, S. K. Harrison, E. E. Regnier. 2010. Environmental factors that influence the association of an earthworm (*Lumbricus terrestris* L.) and an annual weed (*Ambrosia trifida* L.) in no-till agricultural fields across the eastern U.S. Corn Belt. *Agriculture, Ecosystems and Environment* 138:197-205
- Schutte, B. J.**, A. S. Davis, K. A. Renner, J. Cardina. 2008. Maternal and burial environment effects on seed mortality of velvetleaf (*Abutilon theophrasti*) and giant foxtail (*Setaria faberi*). *Weed Science* 56:834-840
- Schutte, B. J.**, E. E. Regnier, S. K. Harrison. 2008. The association between seed size and seed longevity among maternal families in *Ambrosia trifida* L. populations. *Seed Science Research* 18:201-211
- Davis, A. S., **B. J. Schutte**, J. Iannuzzi, K. A. Renner. 2008. Chemical and physical defenses of weed seeds in relation to soil seedbank persistence. *Weed Science* 56:676-684

**Schutte, B. J.**, E. E. Regnier, S. K. Harrison, J. T. Schmoll, K. Spokas, F. Forcella. 2008. A hydrothermal seedling emergence model for giant ragweed (*Ambrosia trifida*). *Weed Science* 56:555-560

**Schutte, B.**, M. Knee. 2005. The effects of rudimentary embryos and elevated oxygen on seed dormancy of *Eryngium yuccifolium* Michx. (Apiaceae). *Seed Science and Technology* 33:53-62

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#### JOURNAL ARTICLES UNDER REVIEW

Hooks, T. N.\* , G. A. Picchioni, **B. J. Schutte**, M. K. Shukla, D. L. Daniel, J. Ashigh. Salinity an environmental “filter” selecting for plant invasiveness? Evidence from the indigeneous *Lepidium alyssoides* on Chihuahuan desert shrublands. *Rangeland Ecology and Management*. Accepted with revisions.

Omer, M. F.\* , O. J. Idowu, K. Grover, **B. J. Schutte**, S. M. Sanogo. Evaluating suitability of legume species as cover crops in irrigated arid systems. *Agronomy Journal*

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#### PEER-REVIEWED TECHNICAL PUBLICATIONS \* denotes graduate student author

Landau, C. A.\* , **B. J. Schutte**, A. O. Mesbah, S. V. Angadi. 2017. Late-Season Weed Management in Conventional Canola Using Sethoxydim and Clopyralid. New Mexico State University, Agricultural Experiment Station Research Report. *in press*

Picchioni, G. A., T. N. Hooks, **B. J. Schutte**, D. L. Daniel. 2015. Drought, Salinity, and Invasive Plants: A New Model for Sustainable Water Management. Techn. Rept. 368. New Mexico Water Resources Research Institute, Las Cruces, NM.

Ashigh, J., L. Lauriault, M. Marsalis, **B. J. Schutte**, C. Hamilton. 2014. Integrated Weed Management in Irrigated Permanent Grass Pastures and Hayfields in New Mexico. New Mexico State University Cooperative Extension Service. Guide A-340

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#### PUBLISHED ABSTRACTS AND PROCEEDINGS \* denotes graduate student author; \*\* denotes undergraduate student author

Murray, L. M.\* , E. A. Lehnhoff, **B. J. Schutte**, C. A. Sutherland. 2017. Integrating biological control with conventional methods for enhanced *Tamarix* management. Proceedings of the 57<sup>th</sup> Annual Meeting of the Weed Science Society of America 57:7

Sanchez, A.\* , **B. J. Schutte**, L. Beck, O. J. Idowu. 2017. Stale seedbed for summer annual weeds in New Mexico chile. Proceedings of the 57<sup>th</sup> Annual Meeting of the Weed Science Society of America 57:9

**Schutte, B. J.**, E. Morris. 2017. Field assessments of flumioxazin for postemergence-directed applications in chile pepper. Proceedings of the 57<sup>th</sup> Annual Meeting of the Weed Science Society of America 57:70

Wood J.\*\* , Marquez, I.\*\* , **B. J. Schutte**. 2017. A non-destructive assay for determining viability of weed seeds. Proceedings of the 57<sup>th</sup> Annual Meeting of the Weed Science Society of America 57:94

- Schutte, B. J.** 2016. Model-based software for teaching tall morningglory seedbank density effects on chile pepper production. Proceedings of the 69<sup>th</sup> Annual Meeting of the Western Society of Weed Science 69:55
- Landau, C. A.\*, **B. J. Schutte**, S. Angadi, A. Mesbah. 2016. Integrated weed management for conventional canola (*Brassica rapa*) in eastern New Mexico. Proceedings of the 69<sup>th</sup> Annual Meeting of the Western Society of Weed Science 69:51
- Mesman, T.\*\*\*, **B. J. Schutte**, E. Morris. 2016. Greenhouse evaluation of chemical control for mid-season weeds in chile peppers. Proceedings of the 69<sup>th</sup> Annual Meeting of the Western Society of Weed Science 69:49
- Schutte, B.J.**, E. Morris. 2016. Evaluating postemergence-directed applications of flumioxazin in chile pepper. Proceedings of the 69<sup>th</sup> Annual Meeting of the Western Society of Weed Science 69:28
- Schutte, B.J.** 2016. Seed production and interference from late-season tall morningglory in chile pepper. Proceedings of the 56<sup>th</sup> Annual Meeting of the Weed Science Society of America 56:152
- Schutte, B.J.**, N. Klypina. 2015. Influence of irrigation timing on disturbance-induced reductions in soil seedbank density. Proceedings of the 68<sup>th</sup> Annual Meeting of the Western Society of Weed Science 68:129
- Schutte, B. J.**, A. E. Cunningham. 2015. Quantifying weed seedbank density effects on pendimethalin control outcomes. Proceedings of the 55<sup>th</sup> Annual Meeting of the Weed Science Society of America 55:258
- Schutte, B. J.** 2015. Impacts of late-season tall morningglory infestations in chile pepper production. Proceedings of the 55<sup>th</sup> Annual Meeting of the Weed Science Society of America 55:36
- Ashigh, J, M. Mohseni-Moghadam, **B. J. Schutte**, A. Shrestha. 2014. Using an in vivo shikimate accumulation assay to determine glyphosate sequestration in glyphosate-resistant plants. Proceedings of the 67<sup>th</sup> Annual Meeting of the Western Society of Weed Science 67:122
- Schutte. B. J.**, N. Klypina. 2014. The effects of decreasing soil moisture on seed mortality of Palmer amaranth (*Amaranthus palmeri*), junglerice (*Echinochloa colona*) and yellow foxtail (*Setaria pumila*). Proceedings of the 67<sup>th</sup> Annual Meeting of the Western Society of Weed Science 67:47
- Schutte, B. J.**, N. Klypina, J. Ashigh. 2014. Endophyte effects on locoweed (*Astragalus mollissimus*) growth responses to increasing temperature and intraspecific competition. Proceedings of the 67<sup>th</sup> Annual Meeting of the Western Society of Weed Science 67:45
- Cunningham, A. E.\*, **B. J. Schutte**. 2014. Weed seedbank density effects on pendimethalin control outcomes. Proceedings of the 67<sup>th</sup> Annual Meeting of the Western Society of Weed Science 67:42

- Ashigh, J, M. Mohseni-Moghadam, **B. J. Schutte**, A. Shrestha. 2014. Determination of glyphosate sequestration as the basis of resistance in glyphosate-resistant plants using an *in vivo* shikimate accumulation assay. Proceedings of the 54<sup>th</sup> Annual Meeting of the Weed Science Society of America 54:92
- Schutte, B. J.**, N. Klypina, V. Zamora, A. Cunningham, J. Ashigh. 2014. The effects of delaying irrigation on disturbed soil seedbanks of Palmer amaranth (*Amaranthus palmeri*), yellow foxtail (*Setaria pumila*) and junglerice (*Echinochloa colona*). Proceedings of the 54<sup>th</sup> Annual Meeting of the Weed Science Society of America 54:67
- Schutte, B. J.**, N. Klypina, M. Shukla. 2013. Soil moisture effects on viability of physically dormant weed seeds. Proceedings of the 66<sup>th</sup> Annual Meeting of the Western Society of Weed Science 66:45
- Schutte, B. J.**, S.E. Wortman, J. L. Lindquist, A. S. Davis. 2013. Maternal environment effects on phenolic defenses in *Abutilon theophrasti* seeds. Proceedings of the 53<sup>rd</sup> Annual Meeting of the Weed Science of America 53:84
- Ashigh, J., N. Klypina, **B. J. Schutte**. 2012. Synergistic interaction of flumioxazin and emulsifiable concentrate formulations of pesticides. Proceedings of the 65<sup>th</sup> Annual Meeting of the Western Society of Weed Science 65:52
- Schutte, B. J.** 2011. Giant ragweed seed biology and germination. Proceedings of the 66<sup>th</sup> Annual Meeting of the North Central Weed Science Society 66:157. *Invited Presentation*
- Regnier, E. E., R. Venkatesh, S. K. Harrison, F. Diekmann, C. H. Holloman, R. A. Taylor, M. M. Loux, J. Cardina, J. E. Heimlich, A. S. Davis, **B. J. Schutte**, D. E. Stoltenberg, K. J. Mahoney, B. G. Hartzler, W. G. Johnson. 2011. Ecosystem based weed management: giant ragweed in the Corn Belt. Proceedings of the 66<sup>th</sup> Annual Meeting of the North Central Weed Science Society 66:47
- Wortman, S. E., A. S. Davis, **B. J. Schutte**, J. L. Lindquist, J. Cardina, J. Felix, C. Sprague, A. Dille, A., Ramirez, G. Reicks, S. A. Clay. 2011. Regional-scale variation in giant ragweed and sunflower demography. Proceedings of the 66<sup>th</sup> Annual Meeting of the North Central Weed Science Society. 66:49
- Davis, A. S., D. Tekiela, **B. J. Schutte**. 2011. Population modeling as decision support tool for giant ragweed management. Proceedings of the 66<sup>th</sup> Annual Meeting of the North Central Weed Science Society 66:200
- Schutte, B. J.**, J. Liu, A. S. Davis, S. K. Harrison and E. E. Regnier. 2009. The association between the earthworm *Lumbricus terrestris* and giant ragweed across the eastern U.S. Corn Belt. Proceedings of the 49<sup>th</sup> Annual Meeting of the Weed Science Society of America. 49:255
- Davis, A. S., E. E. Regnier, S. K. Harrison, J. Liu, **B. J. Schutte**, E. Luschei. 2008. Mutualism between common earthworm (*Lumbricus terrestris*) and giant ragweed (*Ambrosia trifida*) varies between Ohio and Illinois. Proceedings of the 48<sup>th</sup> Annual Meeting of the Weed Science Society of America. 48:62

- Schutte, B.**, E. Regnier, K. Harrison, J. T. Schmoll, F. Forcella, K. Spokas. 2007. Predicting late-season emergence for improved giant ragweed management in Ohio. Proceedings of the 47<sup>th</sup> Annual Meeting of the Weed Science Society of America. 47:249
- Schutte, B.**, E. Regnier, K. Harrison. 2006. Dissection of divergent emergence patterns in agricultural and successional populations of giant ragweed (*Ambrosia trifida* L.). Proceedings of the 46<sup>th</sup> Annual Meeting of the Weed Science Society of America. 46:49
- Schutte, B.**, E. Regnier, K. Harrison. 2005. Maternal plants as sources of emergence variation within *Ambrosia trifida* populations. Proceedings of the 90<sup>th</sup> Annual Meeting of the Ecological Society of America. 90:576
- Schutte, B.**, E. Regnier, K. Harrison. 2004. Primary seed dormancy in *Ambrosia trifida* (giant ragweed). Proceedings of the 59<sup>th</sup> Annual Meeting of the North Central Weed Science Society. 59:119. Awarded best graduate student presentation in weed biology and ecology.
- Schutte, B.**, E. Regnier, K. Harrison. 2004. The effect of interplant variation on emergence patterns of *Ambrosia trifida* populations. Proceedings of the 59<sup>th</sup> Annual Meeting of the North Central Weed Science Society. 59:5

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#### INVITED PRESENTATIONS

- Schutte, B. J.** 2017. Herbicide Resistance: What it is and What Can Be Done About It. U.S. Bureau of Land Management IPM/Pesticide Applicator Certification Training.
- Schutte, B. J.**, S. Sanogo, C. Sutherland. 2016. Pest Management and Climate Change in New Mexico. Presented at the New Mexico Sustainable Agriculture Conference hosted by New Mexico Western SARE (Sustainable Agriculture Research and Extension)
- Schutte, B. J.** 2016. Weed Research Updates for Chile Pepper. Presented at the New Mexico Chile Conference hosted by The Chile Pepper Institute.
- Schutte, B. J.** 2016. Management of Mid-to-Late Season Weeds in Chile Pepper. Presented at the Annual Conference of the New Mexico Crop Production Association.
- Schutte, B. J.** 2015. Revealed! The Secret Life of Weeds. Presented at the New Mexico Organic Farming Conference
- Schutte, B. J.** 2015. Integrated approaches for managing problem weeds. Presented at the New Mexico Chile Conference hosted by The Chile Pepper Institute
- Schutte, B. J.** 2015, 2014 & 2012. Ecological traits of invasive plants southwestern. Presented at the Noxious and Invasive Weed Short Course hosted by New Mexico State University, University of Arizona, U.S. Bureau of Land Management, Farmington, NM.
- Schutte, B. J.** 2014. Ecology and management of agricultural weed seedbanks. Presented at the Annual Conference of the New Mexico Crop Production Association

- Schutte, B. J.** 2013. Managing seedbanks of invasive plants. Presented at the 21<sup>st</sup> Annual Conference of the New Mexico Vegetation Management Association
- Schutte, B. J.** 2012. Weed seedbanks and what they mean to you. Presented at the Sioux Falls Organic Agriculture Conference hosted by South Dakota Cooperative Extension Service, USDA Integrated Pest Management (IPM) Program, Sustainable Agriculture Research and Education (SARE) Program, South Dakota State University IPM Program, Sioux Falls, SD.
- Schutte, B. J.** 2010. Using Environmental Scanning Electron Microscopy (ESEM) to clarify mechanisms of weed seed persistence in the soil seedbank. Presented at the Beckman Institute Forum for Imaging and Visualization hosted by University of Illinois Beckman Institute
- Schutte, B. J., A. S. Davis.** 2008. Adding biofuels to the invasive species fire? Presented to the Illinois Invasive Plant Council
- Schutte, B.J., E. Regnier, K. Harrison.** 2006. Dissection of divergent emergence patterns in agricultural and successional populations of giant ragweed (*Ambrosia trifida* L.). Presented to the USDA-ARS North Central Soil Conservation Research Laboratory, Morris, MN

#### TEACHING

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| 2014 – current | New Mexico State University, Instructor, EPWS 311/511, Introduction to Weed Science   |
| 2013 – 2014    | New Mexico State University, Instructor, EPWS 100L, Introduction to Pest Management Laboratory  |
| 2013           | New Mexico State University, Instructor, EPWS 200, Weeds and Society  |
| 2012 – current | New Mexico State University, Instructor; BIOL/EPWS 314/514 Plant Physiology   |
| 2011 – 2013    | NSF Faculty Institute for Reforming Science Teaching, Teaching Fellow   |
| 2011           | University of Illinois, Co-Instructor, CPSC 418 Crop Physiology   |
| 2000 – 2007    | Ohio State University, Graduate Teaching Assistant, H&CS 422 Principles of Weed Science, H&CS 604.01 Research Methods in Plant Science, H&CS 334 Landscape Plants, BIOL 110 Introduction to Plant Biology |

#### AWARDS AND RECOGNITION

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| 2017 | North American Colleges and Teachers of Agriculture (NACTA) Teaching Award.  |
| 2014 | Weed Science Society of America Award of Excellence for co-authorship of an outstanding paper published in <i>Weed Science</i> during 2012 |
| 2011 | Teaching Fellow, Faculty Institute for Reforming Science Teaching, National Science Foundation   |



- 2008 Outstanding Performance Award, USDA-ARS Midwest Area
- 2006 Third place paper in Food, Agriculture, and Environmental Sciences - Human Ecology Section of the 2006 Edward F. Hayes Graduate Research Forum. Ohio State University.
- 2006 Outstanding Teaching Assistant in Plant Sciences, Ohio State University
- 2005 Gladys Wittmeyer Knox-Gene Wittmeyer Scholarship
- 2004 Best Student Paper in Weed Ecology and Biology, 59<sup>th</sup> Annual Meeting of the North Central Weed Science Society

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#### AGRICULTURAL OUTREACH

- 2017 *Plant spacing management impact on mechanical harvest of green chile.* Poster presented at the New Mexico Chile Conference. Co-authored with Charles Havlik (graduate student), Stephanie Walker, Mark Marsalis, Paul Funk and James Degnan
- 2017 *Stale seedbed for summer annual weeds in New Mexico chile.* Poster presented at the New Mexico Chile Conference. Co-authored with Adriana Sanchez (graduate student), Leslie Beck and John Idowu
- 2017 *Field assessments of flumioxazin for postemergence-directed applications in chile pepper.* Poster presented at the New Mexico Chile Conference. Co-authored with Edward Morris
- 2016 Herbicide trials – New options for New Mexico chile growers. New Mexico State University Chile Pepper Field Day, Agricultural Science Center at Los Lunas
- 2016 Improved weed control in wheat with canola in the rotation. Canola Field Day, New Mexico State University Agricultural Science Center at Clovis.
- 2016 Developed and disseminated user-friendly, model-based software for understanding the practical implications of tactics that target weed seedbanks. The model is implemented in Microsoft Excel® and is available at <http://aces.nmsu.edu/faculty/schutte/index.html>
- 2016 New Mexico State University, Extension Plant Sciences “News You Can Use” article entitled “Registered Herbicides for Canola in New Mexico” <http://eps.nmsu.edu/news-you-can-use.html>. Co-authored with Christopher Landau (graduate student), Sangu Angadi and Abdel Mesbah.
- 2015 Identification and Management of Mid-to-Late Season Weeds in Chile Pepper. New Mexico State University Chile Pepper Field Day, Leyendecker Plant Science Research Center

- 2015 Weed Management in Canola. New Mexico State University Field Day, Agricultural Science Center at Clovis
- 2015 Managing Mid-season Weeds in Chile Pepper. New Mexico State University Field Day, Agricultural Science Center at Los Lunas
- 2015 Herbicide Resistance Technology and Weed Management in Canola. Canola and Winter Wheat Field Day, New Mexico State University Agricultural Science Center at Clovis.
- 2014 Weed Management Research. New Mexico State University Chile Field Day, Los Lunas Agricultural Science Center
- 2014 Weed Management in Onion Fields. New Mexico State University Onion Field Day, Leyendecker Plant Science Research Center
- 2013 Determining the Potential for Exotic Plant Invasions Following Land Applications of Partially Treated Wastewater. New Mexico State University Field Day, Agricultural Science Center at Tucumcari
- 2013 Impacts of Weed Seedbanks on Chemical Weed Control. New Mexico State University Field Day, Agricultural Science Center at Los Lunas
- 2012 New Mexico State University, Extension Plant Sciences “News You Can Use” article entitled “Application of Chateau Herbicide in Alfalfa”. Co-author, Jamshid Ashigh.
- 2012 Weed Science Research at New Mexico State University. New Mexico State University, Leyendecker Plant Science Center Centennial Celebration
- 2010 A Landscape-epidemiological Study on the Spread of Glyphosate-resistant Common Waterhemp. Monsanto, St. Louis, MO
- 2010 Research of the USDA-ARS Global Change Photosynthesis Research Unit, University of Illinois Department of Crop Sciences, Agronomy Day
- 2009 Research of the USDA-ARS Invasive Weed Management Unit, All Things Organic Industry Trade Show, Chicago, IL
- 2008 Research of the USDA-ARS Invasive Weed Management Unit, University of Illinois Department of Crop Sciences, Agronomy Day
- 2007 Giant Ragweed (*Ambrosia trifida*) Seedling Emergence Forecasts for 2007. Crop Observation and Recommendation Network, The Ohio State University Cooperative Extension Service
- 2006 Giant Ragweed (*Ambrosia trifida*) Seedling Emergence Forecasts for 2006. Crop Observation and Recommendation Network, Ohio State University Cooperative Extension Service

2006 Predicting Giant ragweed Seedling Emergence to Better Manage Postemergence Glyphosate Applications. Crop Observation and Recommendation Network, Ohio State University Cooperative Extension Service

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**PROFESSIONAL SOCIETY MEMBERSHIPS**

New Mexico Vegetation Management Association  
Western Society of Weed Science  
Weed Science Society of America  
Pi Alpha Xi  
Gamma Sigma Delta  
Phi Kappa Phi

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**PROFESSIONAL SOCIETY SERVICE**

2017 – current Western Society of Weed Science, Education and Regulatory Committee Chair-elect

2016 – current Weed Science Society of America, co-coordinator for the Southwest Regional Herbicide Resistance Listening Session

2016 – current New Mexico advisory committee for Western Sustainable Agriculture Research and Extension

2014 – current Subject Editor for *Weed Research*

2008 – current Peer reviews for journals including, but not limited to: *Weed Science*, *Weed Technology* and *Invasive Plant Science and Management*

2015 – 2017 Western Society of Weed Science, Local Arrangements Committee, Chair in 2016

2014 Western Society of Weed Science, Basic Biology and Ecology Chair

2013 – 2016 Weed Science Society of America, Research and Competitive Grants Committee