

## PROFESSIONAL VITA

### Andrine A. Shufan

Associate Extension Specialist for Youth  
and Coordinator of the OSU Insect Adventure  
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### EDUCATION

Ph.D. Entomology	Oklahoma State University, Stillwater, OK	2008
M.S. Agricultural Biology	New Mexico State University, Las Cruces, NM	2002
B.S. Horticulture and Entomology	Texas A&M University, College Sta., TX	1998

**Ph.D. Dissertation:** Feasibility of Delaying Pecan Budbreak and Examining Insects Associated with Stored Pecans in Oklahoma and Texas

**M.S. Thesis:** Differences in Physical Characteristics and Secondary Chemicals Associated with Root-Borer Infestation of Snakeweed (*Gutierrezia sarothrae*)

### PROFESSIONAL EXPERIENCE

- Associate Extension Specialist for Youth and OSU Insect Adventure Coordinator, Department of Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK, 2008–Present.
- Entomology Educational Coordinator and Research/Teaching Assistant II, Department of Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK, 2003–2008.
- Technician V, Arthropod Museum, Department of Entomology, Plant Path., and Weed Science, New Mexico State University, Las Cruces, NM, 2002–2003.
- Research Assistant, Department of Entomology, Plant Pathology, and Weed Science, New Mexico State University, Las Cruces, NM, 2000–2002.
- Teaching Assistant, Department of Entomology, Plant Pathology, and Weed Science, New Mexico State University, Las Cruces, NM, 1999–2000.
- Insectary Assistant, Beneficial Insectary Southwest Division, La Luz, NM, 1994, 1998.
- Biological Aide, United States Department of Agriculture/Agricultural Research Service, Areawide Pest Management Research Unit, Bryan, TX, 1996–1997.
- Intern, United States Department of Agriculture/Agricultural Research Service, Areawide Pest Management Research Unit, Bryan, TX, 1995.

### PRESENT ASSIGNMENT

Associate Extension Specialist for Youth & OSU Insect Adventure Coordinator, Instructor for Entomology 3501/5501, Department of Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK.

Duties:

- Direct all activities associated with the OSU Insect Adventure. Maintain facility, supervise employees, and coordinate outreach presentation schedule.
- Give educational presentations of every imaginable type to people of all ages regarding arthropods, entomology, careers, and the impact of insects and their relatives on humans. Live arthropod species used as hands-on instructional tools.
- Directly oversee all aspects of insect husbandry and rearing for the approximately 80 species of arthropods maintained in culture at OSU Insect Adventure.
- Permit-holder for USDA-APHIS PPQ permit for educational display of regulated, non-indigenous arthropods. In charge of maintaining all permit conditions, handling requirements, employee training, and standard operating procedures for containment facility.
- Responsible for Extension publications directed towards youth and development of 4-H and FFA Entomology curriculum. Design posters and educational materials for use in presentations, insect merit badge, and insect camps.
- Organize and participate in recruitment activities for department and organize student groups to attend these events.
- Instructor for Ento 3501/5501, *Entomology for Educators* course at OSU. This hands-on laboratory course is designed to provide educators with all of the resources and background information needed to use insects as a model to teach scientific concepts.
- Provide live arthropod support for several other entomology courses taught in department.

**AWARDS AND ACTIVITIES**

Oklahoma State University

Nominated for Award for Excellence in Advancement of the Land-Grant Mission of OSU, 2015  
Nominated for DASNR Oklahoma Farm Bureau 4-H Professorship, 2015  
Nominated for Faculty Outreach Excellence Award, 2015  
Graduate Faculty Appointment, 2014  
Rapp Foundation Distinguished Graduate Student Fellowship, 2006 – 2008  
Robberson Summer Research Fellowship, 2006

New Mexico State University

Distinguished Alumni Award, Entomology, Plant Pathology & Weed Science Department, 2013  
Dean's Award for Excellence in Graduate Students, 2000

Entomological Society of America - Southwestern Branch

Chair, Insect Expo Committee, 2009 – 2017  
Linnaean Games Committee, 2006 – 2014  
Chair, Student Affairs Committee, 2000 – 2002  
Linnaean Games Competition

1<sup>st</sup> Place, 1999, 2004, 2005, 2006  
2<sup>nd</sup> Place, 2000, 2002, 2003

Student Poster Competition  
2<sup>nd</sup> Place, 2003

Entomological Society of America

International Congress on Entomology  
Chair, Insect Expo Committee 2013 – 2016  
Education and Outreach Committee, 2002 – 2005, 2009 – 2017, Chair, 2013 – 2014  
Student Services Award Selection Committee, 2003 – 2005

Linnaean Games Committee, 2005 – 2006  
National Student Affairs Committee, 2000 – 2002  
National Linnaean Games Competition  
3<sup>rd</sup> Place, 2002  
2<sup>nd</sup> Place, 2006  
National Student Poster Competition  
2<sup>nd</sup> Place, 2005

#### Entomological Foundation

Board of Directors, 2011 – 2014  
Board of Counselors, 2010 – 2016  
Jeffrey LaFage Award Selection Committee, 2011 – 2013

#### Sanborn Entomology Club

President, 2004 – 2005  
Member, 2003 – 2006

#### Dept of Entomology and Plant Pathology, Oklahoma State University

Recruitment and Retention Committee, 2009 – 2017  
Search and Screen Committee for Arthropod Physiologist Faculty Position, 2006

#### Invertebrates in Education and Conservation Conference

Participant, 1999, 2000, 2004, 2005  
Presenter, 2009, 2010 – 2013, 2015 – 2016

#### National Science Teachers Association Conference

Participant 2013  
Presenter 2014

#### Oklahoma Environmental Education Coordinating Committee

Participant, 2013 – 2017

### **MEMBERSHIPS IN PROFESSIONAL SOCIETIES**

Entomological Society of America  
National Science Teachers Association  
Southwest Association for Science Teacher Educators  
Phi Kappa Phi - Honor Society  
Gamma Sigma Delta - Honor Society of Agriculture

### **PROFESSIONAL DEVELOPMENT**

National Science Teachers Association National Meeting, 2013 – 2014  
Invertebrates in Education and Conservation Conference, 2010 – 2015  
Regional Projects Ecosystem Workshop, 2014 – 2015  
Oklahoma Environmental Educators Expo, 2014  
Foundation Fundraising, Oklahoma City, OK, 2011  
Finding Grant Resources, Oklahoma City, OK, 2010  
Beginning Grant Writing, Oklahoma City, OK, 2010  
NREM course “Last Child in the Woods,” 2009  
The Power of Integrating Volunteers Throughout the Organization, 2009  
USDA Successful Grant Writing Conference, Kansas City, MO, 2009  
OCES Improving Grant Writing Skills Workshop, Stillwater, OK, 2009  
OSU Continuing Education Workshop “Transition to Supervisor,” Stillwater, OK, 2009

## **PROFESSIONAL PRESENTATIONS**

### Invertebrates in Education and Conservation Conference

Education Roundtable Coordinator, 2016

Paper Presentation "IECC and ESA: Entomology Education United," 2015

Workshop Presentation "Tools for Insect Collecting with Groups on a Shoestring," 2013

Workshop Presentation "Planning and Presenting an Insect Exposition," 2012

Workshop Presentation "Nature Journaling with Students," 2010

Paper Presentation "Building a Bug Bus," 2009

### Entomological Foundation

Workshop Creator and Presenter "Quality Entomological Curriculum"

Teachers' Educational Workshop, Int'l Congress of Entomology, Orlando, FL, 2016

Teachers' Educational Workshop, Minneapolis, MN, 2015

Workshop Creator and Presenter "Being Bug-Eyed: Nature Journaling for Students"

Teachers' Educational Workshop, Indianapolis, IN, 2009

### Entomological Society of America

Invited Panelist "Managing Job Transitions as an Early Professional" Lunch and Learn, 2015

Symposium Moderator "Gearing Up Interdisciplinary Sci Literacy for the Next Gen," 2015

Symposium Organizer "Meeting the Challenge: New Horizons in Ento Engagement," 2014

Presenter "Utilizing the New National 4-H Entomology Curriculum," 2014

Presenter "Entomology Service Learning," 2013

Presenter "Behind the Scenes View of an Insect Zoo," 2012

Symposium Co-Chair "Inspiring a Fascination for Insects in People of All Ages: the Importance of Six-legged Educational Outreach and Extension," 2010

Symposium Presenter "Bug Scouting: A Mutualistic Relationship between the Bug Zoo and the Boy Scouts," 2010

Symposium Invited Presenter "Making Connections with the Public," 2007

Symposium Co-Chair "Insectary Design Concepts and Case Studies," 2006

Student Presentation Competition 2004

Poster Presentation 2005

Student Poster Competition 2002, 2003, 2005, 2006

### Entomological Collections Network

Invited Speaker, "The OSU Insect Adventure," Minneapolis, MN, 2015

### Department of Entomology and Plant Pathology, Oklahoma State University

Invited Seminar Speaker "Metamorphosis at the Insect Adventure," Stillwater, OK, 2009

### Department of Entomology, University of Georgia

Invited Seminar Speaker "Gradual Metamorphosis at the Insect Adventure," Athens, GA, 2011

### Regional Projects Ecosystem Workshop

Invited Speaker, 2014

### Tulsa Community College

Invited Seminar Speaker "Entomology and a Visit with the Insect Adventure," Tulsa, OK, 2013

### Tulsa Master Gardeners

Invited Seminar Speaker "Metamorphosis at the Insect Adventure," Tulsa, OK, 2012

### Master Gardeners Conference

Invited Seminar Speaker "Metamorphosis at the Insect Adventure," Norman, OK, 2010

### Southwest Association for Science Teacher Educators Conference

Workshop Organizer and Presenter "Nature Journaling with Students," 2010

Oklahoma Cooperative Extension Service 4-H In-Service  
 Entomology, 2013  
 The Buzz about Entomology Collections, 2012, 2017  
 Awareness of Entomology Programs, 2009  
 Oklahoma State Legislators  
 DASNR Day at the Capitol, 2009 – 2010  
 Oklahoma Pecan Growers Association Annual Meeting  
 Invited Speaker, 2004 – 2007  
 Western Pecan Growers Association Conference 2006  
 Website for Insect Adventure, 2009 – 2016

**SELECTED EDUCATIONAL PRESENTATIONS**

Entomological Society of America – SW Branch, Insect Expo 1999 – 2004, 2009 – 2011, 2013 – 2016  
 Entomological Foundation – Austin Insect Rodeo, 2013  
 OSU Dept. Entomology and Plant Path. *Insects and Society* Course, 2004 – 2016  
 OSU College of Education – Stem Teachers Institute, 2012 – 2014  
 OSU Dept. of NREM – Introduction to Natural History, 2014 – 2017  
 American Indian Institute – Indian Education Summit, 2013  
 Tulsa Home & Garden Show – Kids Booth, 2010 – 2017  
 Boy Scouts of America, Insect Study Merit Badge, 2007 – 2015  
 Oklahoma City State Fair, 2003 – 2015  
 OSU Grandparent University, Entomology Course, 2006, 2008 – 2017  
 Oklahoma Wildlife Expo, 2009 – 2012, 2014 – 2015  
 Career Paths Expo, 2009 – 2016  
 OK WONDERtorium and OSU College of Ed. “Insect Adventure Camp,” 2008 – 2014  
 EPSCoR Women in Science Conference, 2009 – 2016  
 Audubon Society’s Nature Camp, 2004 – 2005, 2009, 2011  
 Audubon Society’s Nature Day, 2003 – 2009  
 River Bend Nature Works’ “BugFest!,” 2004 – 2010, 2013 – 2017  
 Regents Summer Academy Camp TURF, 2011 – 2015  
 Plants and Bugs Camp, Departments of Horticulture and Entomology, 2013 – 2015  
 Sierra Club Nature Day Camp, 2011 – 2016  
 Frontier City’s Outdoor Classroom, 2005 – 2007, 2011 – 2014  
 Oklahoma 4-H Ag Round-up, 2006 – 2014  
 “Choices, Chances and Changes” Oklahoma Alternative Education Conference, 2005 – 2008  
 County Events in 51 Oklahoma Counties, 2009 – 2017

Invited Entomological Presentations for K–12 Grade Schools, Families, Civic Groups, and Others

2001 – 16	2009 – 180
2002 – 14	2010 – 140
2003 – 24	2011 – 146
2004 – 6	2012 – 223
2005 – 8	2013 – 358
2006 – 45	2014 – 588
2007 – 53	2015 – 599
2008 – 87	2016 – 400

## **GRANTS AND FELLOWSHIPS RECEIVED**

- Peak Pest Control. Insect Adventure Foundation Support, 2014, \$6000
- Dean of Extension. Vehicle purchase and renovation, 2013, \$5000
- Dean of Extension. Employee salary grant, 2011, \$10,000
- Fischer Family Foundation. Observational beehive, 2011, \$2000
- Funds for purchase of spectacular private pinned insect collection, 2010, \$110,000
- Stillwater Public Education Foundation. OSU Insect Adventure, 2009, \$3600
- Safari Club International Oklahoma Station. SCI works to save CSI, 2008, \$1250
- Copesan, Insect Zoo Support, 2007, \$500
- Rapp Foundation Distinguished Graduate Student Fellowship, 2006-2008, \$4400
- Robberson Summer Research Fellowship, 2006, \$2000
- Oklahoma Pecan Growers Association. Determining and Quantifying Insect Pests of Stored Pecans in the Southwest, 2006, \$2916
- Stillwater Morning Rotary Club. Grant to build microscope station inside the Center for Youth Science, 2005, \$1610
- Oklahoma Experimental Program to Stimulate Competitive Research (EPSCoR). Grant for renovation of Center for Youth Science, 2005, \$27,932

## **PUBLICATIONS**

**Shufran, A.A.**, Mulder, P.G., Ree, B. and K.A. Shufran. 2013. Assessing Insects at Pecan Storage Facilities in Oklahoma and Texas. *Southwestern Entomologist*. Volume 38, Issue 3, September.

**Shufran, A.A.**, Mulder, P.G., Payton, M.A. and K.A. Shufran. 2013. Determining Host Suitability of Pecan for Stored-Product Insects. *Journal of Economic Entomology* 106:2. Pp. 1071-1074.

**Shufran, Andrine A.**, Robideau, Xandra, and Hiner, Gayle. 2010. *Insect Coloring Book*. Oklahoma Cooperative Extension Service Publications.

**Shufran, Andrine A.** 2009. SCI Works to save CSI. *Safari Times Newspaper*. Safari Club International, June.

**Shufran, Andrine A.** 2009. SCI Thinking Outside the Box on Conservation and Wildlife Education. *Oklahoma Safari Trails*, Oklahoma Station SCI, May.

**Morrison, Andrine A.**, and Mulder, Phillip. 2007. Monitoring insect pests in stored pecans. *Proceedings of the Oklahoma Pecan Growers Association 77<sup>th</sup> Annual Convention*. 17-19 June 2007. Lawton, OK.

Lucero, ME, **Morrison, A.**, Fredrickson, E, Estell, R and Richman, D. 2006. Volatile composition of *Gutierrezia sarothrae* (broom snakeweed) as determined by steam distillation and solid phase microextraction. *Journal of Essential Oil Research* 18:121-125.

**Morrison, Andrine A.** and Mulder, Phillip G., Jr. 2006. Determining insect pests of stored pecans. *Proceedings of the Western Pecan Growers Association 76th Annual Conference*. 18-20 June 2006. Shawnee, OK.

**Morrison, Andrine A.** and Mulder, Phillip G., Jr. 2006. Determining insect pests of stored pecans. Proceedings of the Western Pecan Growers Association 40th Annual Conference. 5-7 March 2006. Las Cruces, NM.

**Morrison, Andrine A.**, Smith, Michael and Mulder, Phillip. 2005. Bud break delay in pecan. Proceedings of the Oklahoma Pecan Growers Association 75<sup>th</sup> Annual Convention. 19-21 June 2005. Stillwater, OK.

**Morrison, Andrine A.**, Mulder, Phillip and Sambaraju, Kishan. 2005. Host suitability of pecans for five species of storage pests. Proceedings of the Oklahoma Pecan Growers Association 75<sup>th</sup> Annual Convention. 19-21 June 2005. Stillwater, OK.

Mulder, Phillip, Jr., Seuhs, Kelly and **Morrison, Andrine A.** 2005. Pecan nut casebearer trials, 2004. Proceedings of the Oklahoma Pecan Growers Association 75<sup>th</sup> Annual Convention. 19-21 June 2005. Stillwater, OK.

**Morrison, Andrine A.**, Smith, Michael and Mulder, Phillip. 2004. Can we delay bud break in pecan? Proceedings of the Oklahoma Pecan Growers Association 74<sup>th</sup> Annual Convention. 11-13 June 2004. Idabel, OK.

Mulder, Phillip, Jr., **Morrison, Andrine A.**, and Seuhs, Kelly. 2004. Preliminary evaluations of alternative control treatments for pecan weevil, *Curculio caryae*, on pecan. Proceedings of the Oklahoma Pecan Growers Association 74<sup>th</sup> Annual Convention. 11-13 June 2004. Idabel, OK.