

# AMBER D. TRIPODI

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Department of Entomology ♦ 319 AGRI Bldg. ♦ University of Arkansas ♦ Fayetteville, AR 72701

## EDUCATION

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**Master of Science, Environmental Sciences** May 2009  
University of Colorado Denver, CO  
Advisor: Dr. Fred Chambers (Dr. Herman Sievering, Emeritus) GPA: 4.0/4.0  
Thesis: Photosynthetic response of nitrogen uptake by a forest canopy and implications for carbon sequestration

**Bachelor of Science, Biology, Entomology Minor** Dec 2005  
University of Arkansas Fayetteville, AR  
Advisor: Dr. Frederick Spiegel GPA: 3.9/4.0

**Graduate Record Examination (GRE) Scores** Mar 2007  
Verbal: 610 Quantitative: 770 Analytical Writing: 4.0

## INTERNSHIP

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**Laboratory Technician** Oct 2008 – May 2009  
United States Geological Survey (USGS), National Water Quality Laboratory, Biological Group Denver, CO  
*Assisted with the identification of benthic macroinvertebrates for a federal water quality analysis program. Prepared field-collected samples for analysis, sorted and classified aquatic invertebrates, mounted larval specimens on microscopic slides and maintained the reference collection.*

## TEACHING EXPERIENCE

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**Field Trip Leader, ENTO4024-Insect Diversity and Taxonomy** Fall 2010  
University of Arkansas, Department of Entomology Fayetteville, AR  
Professor: Dr. Jeffery Barnes  
*Demonstrated insect trapping techniques and equipment, including malaise, pitfall, and cone trapping and beat sheet, aerial netting, aquatic netting and black light collecting. Assisted undergraduate and graduate students in proper insect collecting techniques.*

**Teaching Assistant, ENV5020-Earth Environments and Human Impacts** Spring 2008  
University of Colorado, Department of Geology and Environmental Sciences Denver, CO  
Professor: Dr. Herman Sievering  
*Assisted professor with test development. Assisted undergraduate and graduate students with mathematical modeling of environmental systems and biogeochemical cycles.*

## RELEVANT PROFESSIONAL EXPERIENCE

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**Environmental Statistics Consultant** Jan 2010 – Present  
E.S.Consulting (Independent Contractor) Boulder, CO  
*Data analysis, model construction and preparation of presentation materials of environmental data. Past projects have included analysis of the impact of air quality on alfalfa crop yield over a twelve-year study period to construct a user-friendly predictive system for lay stakeholders and air quality monitoring models.*

**Taxonomist, Mosquito Technician** May 2009 – Sept 2009  
Ottetail Environmental (Independent Contractor) Wheat Ridge, CO  
*Identified mosquito species as part of multiple monitoring and abatement programs. Prepared, installed and monitored CDC style mosquito traps and prepared samples for state administered genetic analysis to detect West Nile Virus. Trained and supervised two part-time taxonomists and created and maintained the specimen reference collection.*

## RESEARCH EXPERIENCE

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**Research Assistant, Independent Researcher** Feb 2008 – May 2009  
University of Colorado, Department of Geology and Environmental Sciences Denver, CO  
Research Advisor: Dr. Herman Sievering  
*Research in nitrogen deposition, carbon sequestration and climate models. Designed and conducted field experiments with chlorophyll fluorometry and chemical amendments to assess nitrogen's effect on carbon sequestration. Responsibilities included statistical analysis using parametric and non-parametric methods, supervision of two fellow graduate students in research and statistical methods and assisting students with biogeochemical cycle models in Earth Environments and Human Impacts class.*

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- Independent Researcher, Laboratory Technician (Work-Study)** Jan 2005 – Dec 2005  
University of Arkansas, Department of Entomology, Insect Genetics Laboratory Fayetteville, AR  
Research Advisor: Dr. Allan Szalanski  
*Research in termite phylogenetics and genetic biodiversity, including ecological distributions and taxonomic applications. Conducted DNA extraction, purification, amplification and phylogenetic analysis of insect DNA and taxonomic identification of insect and microbial pathogens by RFLP digestions and electrophoresis.*
- Independent Researcher** Jan 2003 – Dec 2005  
University of Arkansas, Department of Biology, Evolution and Population Genetics Laboratory Fayetteville, AR  
Research Advisor: Dr. William Etges  
*Research with speciation and chemical cues used in mate-choice and mate-recognition within *Drosophila mojavensis*. Designed and executed a study of the role of hydrocarbons in mate recognition and mating success using cuticular extracts and gas chromatography. Responsible for the maintenance and culturing of laboratory stocks of flies, yeasts and bacteria.*
- Laboratory Technician (Work-Study)** Dec 2002 – Dec 2005  
University of Arkansas, Department of Entomology, Fruit and Rice Laboratory Fayetteville, AR  
Research Advisor: Dr. Donn Johnson  
*Research in insect biodiversity and sustainable methods of pest control within orchard and vineyards. Monitored and identified insect populations, applied experimental methods of pest management, including biological control organisms and mating disruption compounds. Collected and analyzed plant and insect volatiles using gas chromatography and maintained and reared laboratory insect stocks.*

## REFEREED PUBLICATIONS

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- Tripodi, A.D.** and A.L. Szalanski. 2011. Further range expansion for *Xylocopa micans* Lepeletier (Hymenoptera: Apidae). *Journal of the Kansas Entomological Society* (in press).
- Szalanski, A.L., **A.D. Tripodi**, and J.W. Austin. 2011. Multiplex PCR diagnostics of the bed bug, *Cimex lectularius* L. *Journal of Medical Entomology* 48: 937-940.
- Magnus, R.M., **A.D. Tripodi** and A.L. Szalanski. 2011. Mitochondrial DNA diversity of honey bees, *Apis mellifera* L. (Hymenoptera: Apidae) from queen breeders in the United States. *Journal of Apicultural Science*, 55: 5-14.
- Tripodi, A.D.** and H. Sievering. 2010. The photosynthetic response of a high-altitude spruce forest to nitrogen amendments with implications for gross primary productivity. *Tellus, Series B*, 62: 59-68.
- Etges, W.J. and **A.D. Tripodi**. 2008. Premating isolation is determined by larval rearing substrates in cactophilic *Drosophila mojavensis*. VIII. Mating success mediated by epicuticular hydrocarbons within and between isolated populations. *Journal of Evolutionary Biology*, 21 (6): 1641-1652.
- Tripodi, A.D.**, J.W. Austin, A.L. Szalanski, J. McKern, M.K. Carroll, R.K. Saran, and M.T. Messenger. 2006. Phylogeography of *Reticulitermes* termites (Isoptera: Rhinotermitidae) in California inferred from mitochondrial DNA sequences. *Annals of the Entomological Society of America*, 99 (4): 697-706.

## PROFESSIONAL PRESENTATIONS

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- Tripodi, A.D.** and A.L. Szalanski. 2011. Population structuring of bumble bees from the central United States. Annual meeting of the Southeastern Branch of the Entomological Society of America, San Juan, PR.
- Tripodi, A.D.** and A.L. Szalanski. 2010. Bumble bees in Arkansas. Arkansas Entomological Society Annual Meeting, Fayetteville, AR.

## POSTER PRESENTATIONS

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- Tripodi, A.D.**, R. Magnus, and A.L. Szalanski. 2010. Genetic diversity of bumble bees from the central United States. Annual meeting of the Entomological Society of America, San Diego, CA.
- Tripodi, A.**, R. Magnus, and A.L. Szalanski. 2010. Genetic Diversity of Bumble Bees in the South Central United States. 1<sup>st</sup> International Conference on Pollinator Biology, Health and Policy, University Park, PA.
- Tripodi, A.**, J. McKern, A.L. Szalanski, and J.W. Austin. 2005. Phylogeography of *Reticulitermes* termites from California. Annual Meeting of the Entomological Society of America, Fort Lauderdale, FL.
- Tripodi, A.D.** and W.J. Etges. 2005. Assessment of the Cuticular Hydrocarbons Involved in Mate-choice within and between Two Populations of *Drosophila mojavensis*. Annual Midwest Ecology and Evolution Conference, Carbondale, IL. *Honorable Mention, Population Biology and Ecology Poster Section.*

## NON-REFEREED PUBLICATIONS

---

- Tripodi, A.D.** 2010. The Genetic Diversity of Arkansas Bumble Bees. *Arkansas Plant Board Apiary Newsletter*, 47 (2): 2.
- Tripodi, A.D.** 2011. Buzzing Baker Prairie. *Claytonia, Newsletter of the Arkansas Native Plant Society*, 31 (2): 2.

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## INTERVIEWS

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- Tripodi, A.D. 'Arkansas bumblebee study seeks citizen scientist input'. UAEX in the news article. April 2011.  
Tripodi, A.D. 'As bumblebees go, so do rare plants'. UAEX in the news article. April 2011.  
Tripodi, A.D. 'University of Arkansas researcher to establish baseline populations for state's bumble bees'. Interview with Associated Press Reporter Sarah Eddington, April 2011.

## OTHER PROFESSIONAL SERVICE TO PUBLIC, CLIENTELE, INSTITUTIONS, STAKEHOLDERS

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- Tripodi, A.D.** 2011. Creating habitats for native pollinators. Invited 1.5 hour presentation to the Fayetteville Community Wildlife Habitat Project, Fayetteville, AR.  
**Tripodi, A.D.** 2011. Native pollinators and status of Africanized honey bees in Arkansas. Invited 3 hour presentation to the Northwest Arkansas Chapter of the Arkansas Master Naturalists, Huntsville, AR.  
**Tripodi, A.D.** 2007. Integrated pest management in community gardens. Invited 1 hour presentation to Denver Urban Gardens, Denver, CO.

## RESEARCH GRANTS AND FELLOWSHIPS

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<b>Doctoral Academy Fellowship (2010-2014)</b>	\$10,000/yr	University of Arkansas
<b>Research Undergraduate Experience (REU) Grant (2004)</b>	\$4,200	National Science Foundation
<b>Student Undergraduate Research Fellowship (SURF) (2004)</b>	\$2,900	SILO Advisory Council
<b>Sustainable Agriculture Research &amp; Education (SARE) Graduate Student Grant (2011 – 2013)</b>	\$9,000	Southern SARE

## ACADEMIC SCHOLARSHIPS

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Lloyd O. and Ruby P. Warren Endowed Scholarship	\$3,500	2002-2005, 2011
Brandon Burlsworth Memorial Scholarship	\$5,000	2003-2004
Carl F. Hoffman Award	\$50	2004
John and Trannye Odum White Scholarship	\$700	2004-2005
Marion A. Steele Scholarship	\$1,000	2004-2005
Vol Boatwright Scholarship	\$1,250	2004-2005
Biological Sciences Scholarship Award, Zoology	\$100	2005
Ozark Hills Daylily Club/Nature's Calling Scholarship	\$1,000	2011

## ACADEMIC HONORS AND AWARDS

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Inducted into the National Society of Collegiate Scholars	2003
Honorable Mention, Research Poster in Population Biology and Ecology Section Midwest Ecology and Evolution Conference	2005
Fulbright College Senior Scholar	2005

## OTHER AWARDS

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Honorable Mention, Hexapod Haiku Contest	April 2010
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## MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

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- Arkansas Entomological Society  
Entomological Society of America  
Kansas Entomological Society  
International Union for the Study of Social Insects- North American Section