

## **Donna E. Hamilton**

Assistant Professor, Biology, UNT Dallas

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### **Education**

Texas Tech University	Biology	Ph.D., 2008
Midwestern State University	Biology	M.S., 2000
Midwestern State University	Biology	B.S., 1992

### **Experience**

2014 – Present	Assistant Professor, University of North Texas at Dallas
2011 – 2014	Biology Lead, Texas Tech at Waco campus Instructor, Department of Biological Sciences, TTU Waco Adjunct Faculty, McLennan Community College
2009-2011	Teaching Postdoctoral Fellow, Texas Tech University Adjunct Faculty, McLennan Community College
2008-2009	Teaching Postdoctoral Fellow, Texas Tech University
2005-2008	Lab Coordinator, Department of Biological Sciences, Texas Tech University
2001-2004	Teaching Assistant, Department of Biological Sciences, Texas Tech University
2001	Adjunct Faculty, Midwestern State University
Labs Taught:	General Botany, Microbiology, Bacteriology, Anatomy and Physiology, Biology for Majors, Forensic Entomology, Parasitology, Field Ecology
Lectures Taught:	Principles of Ecology, Field Ecology, Special Topics in Environmental Sustainability and GIS, Forensic Entomology, Parasitology, Biology for non-majors, Microbiology, Introduction to Organic and Biochemistry

### **Publications**

Ramesh, R., Lord, A. Griffis-Kyle, K. Perry, G. and **D.E. Hamilton**. 2013 Amphibian populations in Brazos River Basin, Texas, show no evidence of Bd infection yet. *Herpetological Review*, September 2013.

**Hamilton, D.E.**, McIntyre, N.E. and L.D. Densmore. 2012. Using implanted passive integrated transponders to monitor long-term burrow fidelity in a theraphosid spider, *Aphonopelma hollyi* Smith 1995. *The Southwestern Naturalist*, 57: 144-147.

**Hamilton, D.E.** and C.N Craig. 2008. Incident of Temporary Burrow Appropriation by a Checkered Garter Snake, *Thamnophis marcianus*, from a North American Tarantula *Aphonopelma hollyi*, *Southwestern Entomologist* 33(4):319-320.

**Hamilton, D.E.** 2008. Direct and indirect measurements of dispersal in the North American tarantula (*Aphonopelma* sp). Ph.D. Dissertation , Texas Tech University

**Hamilton, D.E.**, P. Hellman, and M. Asstanov. 2005. Biology 1402: Biology for non-majors Laboratory Manual, Texas Tech University.

**Hamilton, D.E.** 2000. A limnological comparison of Chihuahuan desert freshwater springs. M.S. Thesis, Midwestern State University.

(In Review)

**Hamilton, D.E.**, Craig, C.N., Strauss, R.E., McIntyre, N.E., and L.D. Densmore. Using radio-telemetry and transition matrix modeling to study the behavioral ecology of North American tarantulas, *Aphonopelma hollyi*, Smith 1995 (Araneae: Theraphosidae).

Lord, A., L. Kuhl, and **D.E. Hamilton**. Comparison of the rhizosphere microbial community in native and invasive wetland flora using Biolog<sup>®</sup> EcoPlate<sup>™</sup> assay and fatty acid methyl ester (FAME) analysis.

### **Undergraduate Mentor/Research Efforts**

2012-present Founding member and current committee member for the Highlander Undergraduate Research Institute (HURI) at McLennan Community College in conjunction with the Waco campus of Texas Tech University. HURI is funded through a Community College Undergraduate Research award from the National Science Foundation to Finger Lakes Community College, NY. The mission of HURI is to foster and encourage undergraduate research and scholarship as a learning tool and means of engagement in undergraduates across campus disciplines.

2009-present During my time at the Waco campus, I have supervised the research efforts of 9 undergraduate researchers investigating projects focused on wetland ecology and forensically important insects and microbes. Additionally, I supervised a graduate intern from the Forensic Institute of Texas Tech University researching forensically important.

2001-2008 As a Ph.D. student I mentored and supervised the efforts of 5 female undergraduate researchers. I also served as mentor for two McNair Scholars (a program enabling the pursuit of graduate science education in first-generation undergraduates).

### Recent Undergraduate Research Dissemination:

2014 A behavioral study of a cleaner fish, *Bodianus rufus*, (Spanish Hogfish) and their clients: presentation, Andrea Edie; National Center for Undergraduate Research, Eastern Washington University.

2013 Succession of the microbial community in sequential stages of mammalian decomposition using Biolog EcoPlate assay and fatty acid methyl ester (FAME) analysis : (poster) Taryn McFarlane; Center for Undergraduate Research annual conference, TTU, Lubbock, TX.

2012 A comparison of the rhizosphere microbial community in native and invasive wetland flora using Biolog EcoPlate assay and fatty acid methyl ester (FAME) analysis; (poster) Lee Kuhl and Adam Lord; Texas Branch of the American Society of Microbiology, Waco, Tx

