

## Lara D. LaDage

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### Education

Ph.D., Biology, 2007  
The University of Memphis, Memphis, TN

B.S. with honors, Biology, 1999  
Western Illinois University, Macomb, IL

### Research Interests

Behavioral neuroscience and spatial processing  
Behavioral and evolutionary biology

### Professional Experience

October 2009- present	Research Scientist, Department of Biology, University of Nevada, Reno
August 2011- present	Part-time Instructor, Department of Biology, Truckee Meadows Community College
July 2009	Instructor, NSF Biomedical Pipeline Program, Department of Biology, Truckee Meadows Community College
August 2007- October 2009	Postdoctoral Research Associate, Department of Biology, University of Nevada, Reno
August 2001-2007	Graduate Assistant, Department of Biology, The University of Memphis
August 1999- May 2001	Graduate Assistant, Department of Biology, Western Illinois University

### Grants and Awards

2010	NSF REU; PI; “Causes and consequences of variation in the hippocampus of individuals utilizing different spatial strategies”; Total award: \$6,000
2009	NSF research grant (IOS-0918268); PI; “Causes and consequences of variation in the hippocampus of individuals utilizing different spatial strategies,” Co-PI’s: Vladimir Pravosudov, Barry Sinervo. Period of support: 8/1/09-7/31/13; Total award: \$400,000
2001-2005	Van Vleet Memorial Doctoral Fellowship. Period of support: 8/1/01-7/31/05. Total award: \$58,000
2005 & 2006	SGA Travel Awards, Total awarded: \$560

## Publications

### *In preparation*

**LaDage, LD**, Roth, TC, Cerjanic, AC, Sinervo, B, and VV Pravosudov. Spatial memory in the side-blotched lizard (*Uta stansburiana*).

**LaDage, LD**, Roth, TC, Cerjanic, AC, Sinervo, B, and VV Pravosudov. Variation in neophobia and exploratory behavior among morphs of the side-blotched lizard (*Uta stansburiana*).

**LaDage, LD**, Roth, TC, Forney, M, Maged, R, Sinervo, B, and VV Pravosudov. The effect of differential spatial use on cortical morphology and neurogenesis in the side-blotched lizard (*Uta stansburiana*).

**LaDage, LD**, Roth, TC, Sinervo, B, and VV Pravosudov. Effects of testosterone on cortical morphology and neurogenesis in the side-blotched lizard (*Uta stansburiana*).

### *In print/ In press*

Roth, TC, Gallagher, C, **LaDage, LL**, and VV Pravosudov. Variation in brain regions associated with fear and learning in contrasting climates. *Brain, Behavior and Evolution*, *in press*.

Roth II, TC, **LaDage, LD**, and VV Pravosudov. 2011. Evidence for long-term spatial memory in a parid. *Animal Cognition*, *in press*.

Roth II, TC, **LaDage, LD**, Freas, C, and VV Pravosudov. 2011. Variation in memory and the hippocampus across populations with different climates: a common garden approach. *Proceedings of the Royal Society B*, *in press*.

Roth, TC, **LaDage, LD**, and VV Pravosudov. 2011. Variation in hippocampal morphology along an environmental gradient: controlling for the effects of day length. *Proceedings of the Royal Society B*, *in press*.

Chancellor, LV, Roth, TC, **LaDage, LD**, and VV Pravosudov. 2011. The effect of environmental harshness on neurogenesis: a large-scale comparison. *Developmental Neurobiology*, 71, 246-252.

**LaDage, LD**, Roth II, TC, and VV Pravosudov. 2010. Hippocampal neurogenesis is associated with migratory behavior in adult but not juvenile sparrows (*Zonotrichia leucophrys* ssp.). *Proceedings of the Royal Society B*, 278, 138-143.

**LaDage, LD**, Roth II, TC, Fox, RA, and VV Pravosudov. 2010. Ecologically-relevant spatial memory use modulates hippocampal neurogenesis. *Proceedings of the Royal Society B*, 277, 1071-1079.

Roth II, TC, **LaDage, LD**, and VV Pravosudov. 2010. Learning capabilities enhanced in harsh environments: a common garden approach. *Proceedings of the Royal Society B*, 277, 3187-3193.

Pravosudov, VV, Roth II, TC, and **LD LaDage**. 2010. Chickadees are selfish group members when it comes to food caching. *Animal Behaviour*, 80, 175-180.

Fox, RA, Roth II, TC, **LaDage, LD**, and VV Pravosudov. 2010. Effects of social group composition and size on hippocampal formation morphology and neurogenesis in mountain chickadees (*Poecile gambeli*). *Developmental Neuroscience*, 70, 538-547.

Roth II, TC, Brodin, A, Smulders, T, **LaDage, LD** and VV Pravosudov. 2010. Is bigger always better? A critical appraisal of the use of volumetric analysis in the study of the hippocampus. *Philosophical Transactions of the Royal Society B*, 365, 915-931.

**LaDage, LD**, Roth II, TC, and VV Pravosudov. 2009. Biases in brain measurements: the trouble with the telencephalon. *Brain, Behavior and Evolution*, 73, 253-258.

**LaDage, LD**, Riggs, BJ, Sinervo, B, and VV Pravosudov. 2009. Dorsal cortex volume in male side-blotched lizards (*Uta stansburiana*) is associated with different space use strategies. *Animal Behaviour*, 78, 91-96.

**LaDage, LD**, Roth II, TC, Fox, RA, and VV Pravosudov. 2009. Effects of captivity and memory-based experiences on the hippocampus of mountain chickadees. *Behavioral Neuroscience*, 123, 284-291.

**LaDage, LD**, Roth II, TC, Fox, RA, and VV Pravosudov. 2009. Flexible cue use in food-caching birds. *Animal Cognition*, 12, 419-426.

Fox, RA, **LaDage, LD**, Roth II, TC, and VV Pravosudov. 2009. Temperament traits predict dominance status in mountain chickadees. *Animal Behaviour*, 77, 1441-1448.

**LaDage, LD**, Gutzke, WHN, Simmons, RA, and MH Ferkin. 2008. Multiple mating increases fecundity, fertility and relative clutch mass in the female leopard gecko (*Eublepharis macularius*). *Ethology*, 114, 512-520.

**LaDage, LD** and MH Ferkin. 2008. Do conspecific cues affect follicular development in the female leopard gecko? *Behaviour*, 145, 1027-1039.

**LaDage, LD** and MH Ferkin. 2007. Do female leopard geckos (*Eublepharis macularius*) discriminate between previous mates and novel males? *Behaviour*, 144, 515-527.

**LaDage, LD** and MH Ferkin. 2006. Male leopard geckos (*Eublepharis macularius*) can discriminate between two familiar females. *Behaviour*, 143, 1033-1049.

Coelho, JR and **LD LaDage**. 1999. Foraging capacity of the great golden digger wasp *Sphex ichneumoneus*. *Ecological Entomology*, 24, 480-483.

## **Presentations**

### *Invited*

**LaDage, LD**. 2011. Tufts University, Biology Department.

**LaDage, LD**. 2011. Florida Atlantic University, Psychology Department.

**LaDage, LD**. 2011. University of Memphis, Biology Department.

### *Contributed*

**LaDage, LD**, Roth II, TC and VV Pravosudov. 2011. Hippocampal neurogenesis is associated with migratory behavior in adult but not juvenile sparrows. Contributed talk, The Society for Integrative and Comparative Biology, Salt Lake City, UT.

**LaDage, LD**, Roth II, TC and VV Pravosudov. 2010. Hippocampal neurogenesis is associated with migration in adult sparrows. Contributed talk, 47<sup>th</sup> annual Animal Behavior Society meeting, Williamsburg, VA.

Pravosudov, VV, Roth II, TC and **LD LaDage**. 2010. Chickadees are selfish group members when it comes to food caching. Contributed talk, 47<sup>th</sup> annual Animal Behavior Society meeting, Williamsburg, VA.

Roth II, TC, **LaDage, LD** and VV Pravosudov. 2010. Learning capabilities enhanced in harsh environments: the role of inheritance. Contributed talk, 47<sup>th</sup> annual Animal Behavior Society meeting, Williamsburg, VA.

Fox, RA, **LaDage, LD**, Roth II, TC and VV Pravosudov. 2010. Behavioral profile and aggression in mountain chickadees. Contributed talk, Society for Integrative and Comparative Biology annual meeting, Seattle, WA.

**LaDage, LD**, Roth II, TC, Fox, RA and VV Pravosudov. 2008. Prioritizing memory for color over spatial cues in the Mountain Chickadee (*Poecile gambeli*). Contributed talk, 12<sup>th</sup> annual International Society for Behavioral Ecology meeting, Cornell, NY.

Fox, RA, Roth II, TC, **LaDage, LD** and VV Pravosudov. 2008. Effects of social environment on spatial memory in Mountain Chickadees. Contributed talk. Integrative Biology of Scatter Hoarding: Ecology, Psychology and Neuroscience, Cornell University.

Pravosudov, VV, Roth II, TC, **LaDage, LD** and RA Fox. 2008. The relationship between the environment, spatial cognition and the hippocampus in food-caching birds. Contributed talk. Integrative Biology of Scatter Hoarding: Ecology, Psychology and Neuroscience, Cornell University.

Roth II, TC, **LaDage, LD**, Fox, RA and VV Pravosudov. 2008. Hippocampal volume in food-hoarding parids: are North American brains really smaller than Eurasian? Contributed talk. Integrative Biology of Scatter Hoarding: Ecology, Psychology and Neuroscience, Cornell University.

Fox, RA, **LaDage, LD**, Roth II, TC and VV Pravosudov. 2008. Individual behavioral traits predict dominance status in mountain chickadees. Contributed talk to the 12<sup>th</sup> annual International Society for Behavioral Ecology meeting, Cornell, NY.

**LaDage, LD** and MH Ferkin. 2006. A test of the 'novel mate hypothesis' in leopard geckos (*Eublepharis macularius*). Contributed talk to the 43<sup>rd</sup> annual Animal Behavior Society Meeting, Snowbird, UT.

**LaDage, LD** and MH Ferkin. 2005. Male leopard geckos (*Eublepharis macularius*) can discriminate between two familiar females. Contributed talk to the 42<sup>nd</sup> annual Animal Behavior Society Meeting, Snowbird, UT.

**LaDage, LD** and WHN Gutzke. 2003. Multiple mating and offspring viability in the leopard gecko (*Eublepharis macularius*). Contributed talk to the 9<sup>th</sup> annual Tennessee Herpetological Society, Jackson, TN.

**LaDage, LD** and MA Romano. 2001. Effects of controlled prairie burns on species diversity and community similarity in two prairie habitats. Contributed talk to the 93<sup>rd</sup> Annual Meeting of the Illinois State Academy of Sciences, Macomb, IL.

Lamer, J, Romano, M, Anderson, R and **LD LaDage**. 2001. Lock and dam 19 as a barrier to gene flow in Red-eared slider turtles, *Trachemys Scripta Elegans*. Contributed talk to the 33<sup>rd</sup> Annual Meeting of the Mississippi River Research Consortium, LaCrosse, WI.

Lamer, J, Romano, M, Anderson, R and **LD LaDage**. 2001. Lock and dam 19 as a barrier to gene flow in Red-eared slider turtles, *Trachemys Scripta Elegans*. Contributed talk to the 93<sup>rd</sup> Annual Meeting of the Illinois State Academy of Sciences, Macomb, IL.

### Teaching Experience

#### *Instructor*

2011	Introduction to Biology, Truckee Meadows Community College
2010	Guest lecturer, Animal Behavior, University of Nevada, Reno
2009	NSF Biomedical Pipeline Program, Truckee Meadows Community College
2004-2005	Vertebrate Zoology (herpetology section), The University of Memphis
2003-2004	Introduction to Biology, The University of Memphis

#### *Teaching Assistant (all at The University of Memphis)*

2006-2007	Introduction to Biology
2005-2006	Evolution General Biology
2003-2004	Biometry, graduate level
2002-2003	General Biology
2001-2002	Introduction to Biology

### Professional Service

2007-present	Reviewer- <i>Animal Behaviour; Animal Cognition; Behavioral Ecology; Behaviour; Biology Letters; Brain, Behavior and Evolution; Ethology; Journal of Chemical Signals; Philosophical Transactions of the Royal Society; Proceedings of the Royal Society of London B</i>
2006	Department of Biology Representative, Graduate and Professional Schools Fair, University of Memphis
2003	Graduate student liaison to the faculty, University of Memphis, Department of Biology

**Professional Memberships**

2007-present	International Society for Behavioral Ecology
2003-present	Animal Behavior Society
2001-2004	American Society of Ichthyologists and Herpetologist