

Christine Buckley

Organismic and Evolutionary Biology
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Education

Candidate for Ph.D., Ecology and Evolutionary Biology - University of Massachusetts, Amherst; Amherst, MA.

2006-present (2002-2006 at Tulane University) Candidacy granted 2005

Advisor: Duncan J. Irschick

Dissertation research: Incubation temperature effects on ectothermic hatchling body shape and performance

B.A., Biology - Boston University; Boston, MA. 1998-2002. Awarded college honors.

Advisor: Karen Warkentin. Undergraduate research: Examined the behavioral ecology of early hatching in amphibians and fishes

Teaching

Teaching assistant - Diversity of Life laboratory, Tulane University. 2003

Undergraduate Assistant - Biology I laboratory, Boston University. 2001.

Grants and awards

2007 - White Mountain Research Station graduate student minigrant, \$1493.

2006 - White Mountain Research Station graduate student minigrant, \$1000.

2006 - The Society for Integrative and Comparative Biology Grant in Aid of Research, \$1000.

2005 - The Exploration Fund Graduate Research Grant, The Explorer's Club, \$1200.

2005 - Sigma Xi Grant in Aid of Research, \$490.

2005 - Sigma Xi Grant in Aid of Research, \$195.

2002-2006 - Louisiana Board of Regents Fellowship, \$18,000/yr, 4 yrs; \$500/yr travel.

2002 - Senior Book Award, Boston University Department of Biology, \$100.

1998-2002 - University Scholarship, Boston University. \$14,000/yr, 4 years.

1998 - Proctor and Gamble College Student Scholarship, \$1000.

Presentations

Buckley, C.R., Adolph S.C., Irschick, D.J. The persistence of environmentally-induced phenotypic plasticity in western fence lizards. The Society for Integrative and Comparative Biology. Phoenix, AZ. January 2007

- Buckley, C.R., Adolph S.C., Irschick, D.J. Persistence of incubation effects on the phenotypes of hatchling western fence lizards, *Sceloporus occidentalis*. The Society for Integrative and Comparative Biology. Orlando, FL. January 2006
- Buckley, C.R., Michael, S.F., Irschick, D.J. The effect of hatching timing and substrate type on morphology, performance and behavior of a direct-developing frog. Southeastern Ecology and Evolution Conference. Atlanta, GA. March 2004
- Buckley, C.R., Michael, S.F., Irschick, D.J. The effect of hatching timing and substrate type on performance and behavior of a direct-developing frog. Society for Integrative and Comparative Biology. New Orleans, LA. January 2004
- Buckley, C.R., Metcalf, K. A., Warkentin, K.M. Egg development affects the foraging strategy of wasps preying on red-eyed tree frog eggs. Society for Integrative and Comparative Biology. Toronto, Canada. January 2003
- Buckley, C.R., Metcalf, K. A., Warkentin, K.M. Effects of egg development on efficiency and choices of wasps foraging on red-eyed tree frog eggs. American Society of Ichthyologists and Herpetologists Joint Meeting. Kansas City, MO. July 2002

Publications

- Buckley C.R., Jackson M., Youssef M., Irschick D.J., Adolph S.C. 2007. Testing the persistence of phenotypic plasticity after incubation in the Western fence lizard, *Sceloporus occidentalis*. *Evolutionary Ecology Research* 9:169-183.
- Irschick D.J., Ramos M., Buckley C.R., Elstrott J., Carlisle E., Lailvaux S., Bloch N., Herrel A., VanHooydonck B. 2006. Are morphology-performance relationships invariant across different seasons? A test with the green anole lizard (*Anolis carolinensis*). *Oikos* 114:49-59.
- Warkentin, K.M., Buckley, C.R. & Metcalf, K.M. 2006. Effects of egg development on efficiency and choices of wasps foraging on red-eyed tree frog eggs. *Animal Behaviour* 71: 417-425.
- Buckley, C.R., Michael, S.F. & Irschick, D.J. 2005. Early hatching decreases jumping performance in a direct-developing frog, *Eleutherodactylus coqui*. *Functional Ecology* 19:67-72
- Irschick, D.J., Carlisle, E., Elstrott, J., Ramos, M., Buckley, C.R., Vanhooydonck, B., Meyers, J., & Herrel, A. 2005. A comparison of habitat use, morphology, clinging performance, and escape behavior among two divergent green anole lizard (*Anolis carolinensis*) populations. *Biological Journal of the Linnean Society* 85:223-234.
- Michael, S.F., Buckley, C.R., Toro, E., Estrada, A., & Vincent SE. 2004. Induced ovulation and egg deposition in the direct developing anuran *Eleutherodactylus coqui*. *Reproductive Biology and Endocrinology* 2:6.

Professional memberships

American Society of Ichthyologists and Herpetologists
Society for Integrative and Comparative Biology
Society for the Study of Amphibians and Reptiles
Society for the Study of Evolution
National Association of Science Writers

Service

Tulane University Graduate School Student Association Secretary, 2004-2006
Instructor, WILD Science Weekly after-school program, Audubon Nature Institute, New Orleans. Taught 5th grade students from under-resourced New Orleans public schools about science and nature at the Audubon Aquarium of the Americas and the Audubon Zoo. 2004-2005.
Guest instructor and field trip coordinator at six New Orleans public schools, K-8. New Orleans, LA. 2002-2006.

References

Duncan Irschick, Ph.D. Assistant Professor, University of Massachusetts, Amherst Biology Department. 504 862-8295 irschick@tulane.edu
Stephen Adolph, Ph.D. Professor, Harvey Mudd College Biology Department. 909 920 1291 adolph@hmc.edu
Karen Warkentin, Ph.D. Assistant Professor, Boston University Biology Department. 617 358 2385 kwarken@bu.edu