

Terry R. Dial
Department of Ecology and Evolutionary Biology
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Education:

- M.S. Biology, University of Utah, 2010 (David R. Carrier, advisor)
 - Thesis: Comparative Ontogeny of Form and Function in Developing Mallard Ducks
- B.S. Biology, Loyola Marymount University, 2007
 - Biochemistry minor
 - Business minor

Publications:

- Dial, T.R. and Carrier, D.R. (in review). Precocial hindlimbs and altricial forelimbs: the partitioning of ontogenetic strategies in mallard ducks (*Anas platyrhynchos*). *Journal of Experimental Biology*.
- Dial, T.R., Heers, A.M. and Tobalske, B.W. (in review). Ontogeny of aerodynamics in Mallard ducks: comparative performance and developmental implications. *Journal of Experimental Biology*.
- Dial, K.P., R.J. Randall and T.R. Dial. 2006. What use is half a wing in the ecology and evolution of birds? *BioScience* 56: 437-445.

Research:

- Graduate Student, Animal Locomotion and Physiology Lab, PI: David R. Carrier, University of Utah, 2008-2010
 - MS Thesis
- Assistant, Flight Laboratory and Field Research Station, University of Montana, 2001-current
 - Aerodynamics of avian wings
 - Ontogeny and evolution of flight
 - Scaling of mechanical power output
 - Metabolic efficiency of bird flight
- Assistant, Biomechanics Laboratory, University of Wyoming, 2008
 - Metabolic cost of running
 - Sprinting endurance
 - Running mechanics
 - Able-bodied and Paralympic athletes

- Lab Assistant and Undergraduate Researcher, Center for Structural and Functional Neuroscience, University of Montana, 2005-2006
 - Neuroprotection and neurodegeneration after excitotoxic injury
 - Regeneration of cochlear hair cells as treatment for hearing loss
 - Viral mediated gene transfer
 - Plasmid computer modeling
- Undergraduate Researcher, Plant Developmental Biology, Loyola Marymount University, 2005-2007
 - Role of plant hormones auxin and cytokinin in plant growth and development

Presentations:

Scientific Meetings

- Precocial hindlimbs and altricial forelimbs: The modulation of ontogenetic strategies in Mallard ducks
International Congress of Vertebrate Morphology, Punta del Este 2010
- Precocial hindlimbs and altricial forelimbs: The modulation of ontogenetic strategies in Mallard ducks
Society of Integrative and Comparative Biology, Seattle 2010
Honorable Mention, D. Dwight Davis Competition

Invited Speaker

- The mechanics and origins of avian flight
Comparative Vertebrate Morphology lecture, University of Utah, 2009
- What use is half a wing in the origin of flight?
Comparative Vertebrate Morphology lecture, University of Utah, 2008

Teaching:

- Teaching Assistant, Comparative Vertebrate Morphology lecture/lab, University of Utah, 2008-2009
- Teaching Assistant, Vertebrate Design and Evolution lab, University of Montana, 2007
- Teaching Assistant, General Biology lab, Loyola Marymount University, 2005-2007

Organizations:

- International Congress of Vertebrate Morphology, 2010
- Society of Integrative and Comparative Biology, 2007
- *Sigma Xi* Biology Honors Society, 2007
- *Alpha Sigma Nu* Jesuit Honors Society, 2006
- *Beta Beta Beta* Biology Honors Society, 2004

Awards/Distinctions:

- Student Representative, Ecology Search Committee, Department of Biology, Loyola Marymount University, 2006
- President-Selected Student Representative, “Right time, right place” Campaign, Loyola Marymount University, 2006
- Summer Undergraduate Research Fellow, University of Montana, 3 month stipend amounting \$4000, 2006
- McLaughlin Family Foundation Scholarship, Loyola Marymount University, awarded \$10,000, 2005-2006