

# Curriculum Vitae

## **Gregory Alan Russell**

Department of Biology  
Orange Coast College  
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Place of birth: Meeker, Colorado, USA

### **EDUCATION:**

*University of California, Riverside*, Riverside, California, 2002-2007  
Ph.D. in Biology, 2007, Area of specialization: Physiological Ecology, dissertation title: *Physiological correlates of life at high altitude in the deer mouse*, *Peromyscus maniculatus*, major advisor: Kimberly A. Hammond

*University of Wyoming*, Laramie, Wyoming, 1999-2002  
B.S. in Zoology/Physiology, 2002, concentration in Physiology

### **AWARDS AND HONORS:**

- Dean's Fellowship for dissertation research, University of California, Riverside (2002)
- President's Honor Roll, University of Wyoming; Laramie, WY (2001-2002)
- Dean's Honor Roll, University of Wyoming; Laramie, WY (1999-2001)
- Boy Scouts of America, Eagle Scout (1995)

### **TEACHING EXPERIENCE:**

*Instructor:* Orange Coast College, Costa Mesa, California, 2008-Current.

*Adjunct Faculty:* Human Physiology, Chaffey College, Rancho Cucamonga, California, 2008.

*Adjunct Faculty:* Human Anatomy, Mt. San Antonio College, Walnut, California, 2008.

*Adjunct Faculty:* Human Anatomy & Physiology and General Biology, Riverside Community College, Riverside, California, 2008.

*Associate in Biology:* Cellular Basis of Life, University of California, Riverside, California, 2007.

*Associate in Biology: Human Heredity & Evolution, University of California, Riverside, California, 2007.*

*Teaching Assistant: University of California, Riverside, California, 2004-2007.*

- Functional Anatomy of the Vertebrates, laboratory and discussion (3 quarters)
- Human Anatomy & Physiology, laboratory (3 quarters)
- Introduction to Organismal Diversity, laboratory (2 quarters)
- Introduction to Cell and Molecular Biology, laboratory (1 quarter)
- Human Sexuality, discussion (1 quarter)

### **OTHER RELEVANT EXPERIENCE:**

*Research Assistant: University of Wyoming, Laramie, Wyoming, 2000-2002.*

- Duties included DNA extractions, performing polymerase chain reactions, analyzing electrophoretic gels and molecular genetic datasets, and assisting in preparation of manuscripts (supervisor: Dr. Steven Buskirk).

### **TEACHING INTERESTS:**

Human Anatomy & Physiology, Comparative Animal Physiology, Functional Anatomy, General Biology (majors and non-majors).

### **TEACHING PHILOSOPHY:**

I believe that pedagogic style is a crucial factor in communicating ideas and material, and that an inquiry-based style of teaching tends to be highly effective. By placing emphasis on stimulating students' interests in learning biology, I encourage them to relate the subject matter at hand to their own experiences and observations, and I motivate discussion with real-world examples students can easily relate to. My goal is to help students synthesize material from the textbook, lecture, and their own experiences better; consequently, they enjoy learning much more.

## **INTRAMURAL FUNDING:**

*University of California, Riverside, California.*

- Dissertation Research Grant, UC Riverside Graduate Dean's Office, 2006, \$972
- UC White Mountain Research Station Minigrant, 2003-2005, \$6,000
- National Science Foundation GAANN Fellowship Recipient, 2003-2004

*University of Wyoming, Laramie, Wyoming*

- College of Arts and Sciences Reid, Lynn, and Coughlin Scholarship, 2001
- College of Arts and Sciences Undergraduate Summer Scholar Award, 2001
- L. Floyd Clarke Memorial Summer Research Scholarship, 2001
- National Science Foundation EPSCoR Undergraduate Research Fellowship, 2001

## **INVITED LECTURES:**

- Russell, G.A. 2007. High altitude metabolism in mice and men: keeping the fire burning. University of California White Mountain Research Station, Winter 2007 Public Lecture Series, Bishop, CA, USA.
- Russell, G.A. 2001. Using Genetics in Conservation: The Case of the Pacific Fisher (*Martes pennanti*). University of Wyoming A&S Honors Convocation, Laramie, WY, USA.

## **PEER-REVIEWED PUBLICATIONS:**

- **Russell, G.A.**, E.L. Rezende, and K.A. Hammond. 2008. Development partly determines the aerobic performance of the adult deer mouse, *Peromyscus maniculatus*. *Journal of Experimental Biology* 211: 35-41. DOI: 10.1242/jeb012658.
- Chappell, M.A., K.A. Hammond, R.A. Cardullo, **G.A. Russell**, E.L. Rezende, and C.A. Miller. 2007. Deer mouse aerobic performance across altitudes: effects of developmental history and temperature acclimation. *Physiological and Biochemical Zoology* 80: 652-662. DOI: 10.1086/521202.
- **Russell, G.A.** and M.A. Chappell. 2007. Is BMR repeatable in deer mice? Organ mass correlates and effects of cold acclimation and natal altitude. *Journal of Comparative Physiology-B*. 177(1): 75-87.
- Rezende, E.L., F.R. Gomes, C.K. Ghalambour, **G.A. Russell**, and M.A. Chappell. 2005. An evolutionary frame of work to study physiological adaptation to high altitudes. *Revista Chilena de Historia Natural* 78(2): 323-336.

- Wisely, S.M., S.W. Buskirk, **G.A. Russell**, K.B. Aubry, and W. J. Zielinski. 2004. Phylogeography and genetic diversity of the fisher (*Martes pennanti*) in a peninsular and peripheral metapopulation. *Journal of Mammalogy* 85(4):640-648.

#### **NON-PEER REVIEWED PUBLICATIONS:**

- **Russell, G.A.** and K.A. Hammond. 2007. 3800 m elevation slows growth in *Peromyscus maniculatus*. *Peromyscus Newsletter* 42: 39-41.
- Buskirk, S. W., K.B. Aubry, S.M. Wisely, **G.A. Russell**, and W.J. Zielinski. 2002. Population genetic structure of the fisher in the Pacific States. *Martes Working Group Newsletter* 10:10.

#### **PAPERS IN PREP:**

- **Russell, G.A.**, K.A. Hammond, and R.A. Cardullo. In revision. Developmental environment and time spent at high altitude determine metabolic fuel use capacity in deer mice, *Peromyscus maniculatus*. *Physiological and Biochemical Zoology*.
- **Russell, G.A.**, and K.A. Hammond. In prep. 3800 m elevation slows growth in the deer mouse, *Peromyscus maniculatus*. To be submitted to *Journal of Mammalogy*.

#### **PAPERS AND ABSTRACTS PRESENTED AT MEETINGS:**

- **Russell, G.A.**, and K.A. Hammond. 2006. Does growth rate differ between altitudes in deer mice? Presented at the Annual Meeting, The Society for Integrative and Comparative Biology, Jan 3-7, Phoenix, AZ, USA.
- **Russell, G.A.**, M.A. Chappell, and K.A. Hammond. 2005. Effects of high altitude development and cold acclimation on summit metabolism and organ mass in the deer mouse, *Peromyscus maniculatus*. *Integrative and Comparative Biology* 45(6):1065. Presented at the Annual Meeting, The Society for Integrative and Comparative Biology, Jan 4-8, Orlando, FL, USA.
- Chappell, M.A., **G.A. Russell**, and K.A. Hammond. 2005. BMR is not repeatable over extended periods in deer mice. *Integrative and Comparative Biology* 45(6): 976. Presented at the Annual Meeting, The Society for Integrative and Comparative Biology, Jan 4-8, Orlando, FL, USA.

- **Russell, G.A.**, K.A. Hammond, and R.A. Cardullo. 2004. Effects of development at high altitude: aerobic performance in the deer mouse, *Peromyscus maniculatus*. *Integrative and Comparative Biology* 44(6):633. Presented at the Annual Meeting, The Society for Integrative and Comparative Biology, Jan 4-8, San Diego, CA, USA. (manuscript in review)
- Buskirk, S.W., S.M. Wisely, **G.A. Russell**, K.A. Aubry, and W.J. Zielinski. 2004. Phylogeography and genetic diversity of the fisher (*Martes pennanti*) in a peninsular and peripheral metapopulation. Annual Meeting of the American Society of Mammalogists, June 12-16, Humboldt State University, Arcata, CA, USA.
- Wisely, S.M., S.W. Buskirk, **G.A. Russell**, K.A. Aubry, and W.J. Zielinski. 2003. Genetic diversity and structure of the fisher (*Martes pennanti*) in a peninsular and peripheral metapopulation. Conservation Genetics Subcommittee of the American Genetics Association, Sept. 14-17, Front Royal, VA, USA.
- Buskirk, S.W., S.M. Wisely, **G.A. Russell**, K.B. Aubry, and W.J. Zielinski. 2002. Phylogeography of fishers in the Pacific Northwest. *Integrative and Comparative Biology* 42(6):1204-1205. Poster presentation, Annual Meeting, The Society for Integrative and Comparative Biology, Jan. 2-8, Toronto, Ontario, CA.
- Buskirk, S.W., K.B. Aubry, S.M. Wisely, **G.A. Russell**, and W.J. Zielinski. 2002. Population genetic structure of the fisher (*Martes pennanti*) in the western contiguous United States: progress on a study using microsatellite DNA markers. Annual Meeting, Northwest Section and Washington Chapter, The Wildlife Society, Spokane, WA, USA.

## **PROFESSIONAL MEMBERSHIPS**

- Society for Integrative and Comparative Biology
- Sigma Xi

## **FIELD EXPERIENCE:**

- Surveying for forest carnivores through the use of sooted track plates and camera stations. Also extensive experience with vegetation plots. Plumas County, CA, 2001.
- Radio telemetry and location of dened black bears. Albany County, WY, 2001.
- Radio telemetry and collaring of mountain lions. Assisted with taking blood samples and morphological measurements. Carbon County, WY, 2000.
- Tagging and surgery of prairie dogs. Assisted with implantation of transmitters into peritoneal cavity. Laramie, WY, 1999, 2000.

- Field Ecology class. Grassland vegetation plots, soil infiltration tests, stream invertebrate samples, forest vegetation plots, collection and analysis of duff samples. Albany County, WY, 1999.
- Radio telemetry and observations of black bears. Assisted with observational data. Colfax County, NM, 1998.

### **REVIEWED MANUSCRIPTS:**

- Manuscript for *Oecologia*, 2005
- Manuscript for *Journal of Mammalogy*, 2003

### **DEPARTMENT SERVICE:**

- President, Biology Graduate Student Association, University of California, Riverside, 2004-2005.

### **REFERENCES:**

- Dr. Kimberly A. Hammond, Associate Professor, University of California, Riverside, (951) 827-4767, khammond@ucrac1.ucr.edu
- Dr. Mark A. Chappell, Professor, University of California, Riverside, (951) 827-7709, chappell@ucr.edu
- Dr. Richard A. Cardullo, Professor, University of California, Riverside, (951) 827-6457, cardullo@ucr.edu
- Dr. John Oross, Academic Coordinator, University of California, Riverside, (951) 827-7397, oross@ucr.edu
- Dr. Steven W. Buskirk, Professor, University of Wyoming, (307) 766-5626, marten@uwyo.edu

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