

CURRICULUM VITAE  
**Kristopher B. Karsten, Ph.D.**  
Assistant Professor  
Biology Department  
California Lutheran University  
60 W. Olsen Rd. #3700  
Thousand Oaks, CA 91360  
karsten@callutheran.edu

## EDUCATION

- 2008: Doctor of Philosophy, Zoology, Oklahoma State University, Stillwater, Oklahoma. Drs. Stanley F. Fox (Oklahoma State University) and Christopher J. Raxworthy (the American Museum of Natural History), advisers.
- 2000: Master of Science, Biology, Texas Christian University, Fort Worth, Texas. Dr. Gary W. Ferguson, adviser.
- 1997: Bachelor of Science, Biology, Truman State University, Kirksville, Missouri.

## PUBLICATIONS

- Rubenstein, T. G., A. M. Hale, and **K. B. Karsten**. **In press**. Nesting success in Scissor-tailed Flycatchers at a utility-scale wind farm in north-central Texas. *Southwestern Naturalist*.
- Williams, D. A., C. Leach, A. M. Hale, **K. B. Karsten**, E. Mujica, D. Barber, L. A. Linam, and N. Rains. **In press**. Development of tetranucleotide microsatellite loci and a non-invasive DNA sampling method for Texas horned lizards (*Phrynosoma cornutum*). *Conservation Genetic Resources*.
- Andrews, R. M. and **K. B. Karsten**. **2010**. Evolutionary innovations of squamate reproductive and developmental biology in the family Chamaeleonidae. *Biological Journal of the Linnean Society* 100:656-668.
- Karsten, K. B.**, L. N. Andriamandimbarisoa, S. F. Fox, and C. J. Raxworthy. **2009**. Sexual selection on body size and secondary sexual characters in two closely related, sympatric chameleons in Madagascar. *Behavioral Ecology* 20:1079-1088.
- Karsten, K. B.**, L. N. Andriamandimbarisoa, S. F. Fox, and C. J. Raxworthy. **2009**. Population densities and conservation assessments for three species of chameleons in the Toliara region of south-western Madagascar. *Amphibia-Reptilia* 30:341-350.
- Karsten, K. B.**, L. N. Andriamandimbarisoa, S. F. Fox, and C. J. Raxworthy. **2009**. Social behavior of two species of chameleons in Madagascar: insights into sexual selection. *Herpetologica* 65:54-69.
- Karsten, K. B.**, G. W. Ferguson, M. F. Holick, and T. C. Chen. **2009**. Panther chameleons, *Furcifer pardalis*, behaviorally regulate optimal exposure to UV depending on dietary vitamin D status. *Physiological and Biochemical Zoology* 82:218-225.
- Karsten, K. B.**, L. N. Andriamandimbarisoa, S. F. Fox, and C. J. Raxworthy. **2008**. A unique life history among tetrapods: an annual chameleon living mostly as an egg. *Proceedings of the National Academy of Sciences of the United States of America* 105:8980-8984.

- Karsten, K. B.** and L. N. Andriamandimbiarisoa. **2008.** *Furcifer labordi* (Labord's chameleon) reproduction. *Herpetological Review* 39:224.
- Ferguson, G. W., W. H. Gehrmann, **K. B. Karsten**, A. J. Landwer, E. N. Carman, T. C. Chen, and M.F. Holick. **2005.** Ultraviolet Exposure and Vitamin D Synthesis in a sun-dwelling and a shade-dwelling species of *Anolis*: are there adaptations for lower UVB and dietary vitamin D<sub>3</sub> availability in the shade? *Physiological and Biochemical Zoology* 78:193-200.
- Karsten, K. B.** and G. W. Ferguson. **2004.** Outdoor enclosure design and technique for studying three-dimensional movement patterns of arboreal lizards. *Herpetological Review* 35:144-146.
- Ferguson, G. W., W. H. Gehrmann, **K. B. Karsten**, S. M. Hammack, M. McRae, T. C. Chen, N. P. Lung, and M. F. Holick. **2003.** Do panther chameleons bask to regulate endogenous vitamin D<sub>3</sub> production? *Physiological and Biochemical Zoology* 17(1):52-59.

### **TEACHING AWARDS**

- 2006: Commendation from Alpha Lambda Delta Honor Society for teaching service in Animal Biology, University of Central Oklahoma
- 2004: Wilhm Zoology Teaching Assistantship Award (Comparative Vertebrate Morphology), Oklahoma State University

### **TEACHING AND PROFESSIONAL EXPERIENCE**

- 2011-Present: Assistant Professor, Biology Department, California Lutheran University  
Courses taught: Ecology and Evolution  
Environmental Ecology  
Scientific Literature
- 2008-2011: Post-doctoral Researcher, Biology Department, Texas Christian University
- 2004-2006: Adjunct Faculty, Department of Biology, University of Central Oklahoma  
Courses taught: Animal Biology Lecture and Laboratory (2004-2006)  
General Biology Lecture and Laboratory for majors (2005)  
General Biology Lecture for non-majors (2004-2005)
- 2003-2005: Instructor, Department of Zoology, Oklahoma State University  
Courses taught: Animal Biology (2003-2005)
- 2000-2008: Graduate Teaching Assistant, Department of Zoology, Oklahoma State University  
Courses taught: Human Anatomy Laboratory (2008)  
Evolutionary Ecology Laboratory (2007)  
Comparative Vertebrate Morphology Laboratory (2002-2003, 2006-2007)

Herpetology Laboratory (2002-2006)  
Ichthyology Laboratory (2002-2006)  
Animal Biology Laboratory (2001-2002)  
Introductory Biology Laboratory (2000)

1998-2000: Graduate Teaching Assistant, Department of Biology, Texas Christian University  
Courses taught: General Biology Laboratory for majors (1998-2000)  
Introductory Biology Laboratory for non-majors (1998)

### **GRANTS AND HONORS**

2009: Graduate Research Excellence Award, Oklahoma State University  
2008: Outstanding Graduate Student Award, Oklahoma State University  
2008: Runner-up, Best Biological Sciences Paper, 19th Annual Research Symposium, Oklahoma State University  
2003: Robberson Fellowship, Oklahoma State University  
2000: Graduate Student of the Year, Texas Christian University  
1999: Adkins Fellowship, Texas Christian University  
1999: Grant for Panther Chameleon Behavior research, Upstate Herpetological Society

### **STUDENT MENTORING**

Co-advised grad. students: Laza Andriamandimbarisoa (Univ. of Antananarivo), 2003-2005  
Erin Hatchett (Texas Christian Univ.), 2009-present  
Jeff Meyer (Texas Christian Univ.), 2008-2010  
Trevor Rubenstahl (Texas Christian Univ.), 2008-2010  
Tom Stevens (Texas Christian Univ.), 2009-present

Graduate Committees: Russell Ligon, PhD student (Arizona State Univ.), 2010-present

Undergraduate students: Supervised research activities of 23 undergraduates/technicians in the field and/or laboratory.

### **INVITED SEMINARS**

2011 – Arizona State University, Tempe, Arizona  
2011 – Missouri State University, Springfield, Missouri  
2010 – California Lutheran University, Thousand Oaks, California  
2010 – St. Edward's University, Austin, Texas  
2010 – Loyola Marymount University, Los Angeles, California  
2009 – University of Texas at Tyler, Tyler, Texas  
2008 – Virginia Tech, Blacksburg, Virginia  
2008 – Texas Christian University, Fort Worth, Texas  
2007 – Truman State University, Kirksville, Missouri  
2004 – Université de Toliara, Toliara, Madagascar  
2004 – Université d'Antananarivo, Antananarivo, Madagascar

## SELECTED PRESENTATIONS

- Karsten, K. B., L. Andriamandimbiarisoa, S. F. Fox, and C. J. Raxworthy. Sexual selection on body size and secondary sexual characters in two closely related, sympatric chameleon species in Madagascar. Society for Integrative and Comparative Biology. Boston, Massachusetts. January 6, 2009.
- Andrews, R. M. and K. B. Karsten. Phylogenetic patterns in the reproductive biology of chameleons. 6th World Congress of Herpetology. Manaus, Brazil. August 20, 2008.
- Karsten, K. B. Living life like there is no tomorrow: growth, sex, and death in a remarkable chameleon in Madagascar. Society for Integrative and Comparative Biology. San Antonio, Texas. January 5, 2008.
- Karsten, K. B., L. Andriamandimbiarisoa, S. F. Fox, C. J. Raxworthy, and D. Rakotondravony. Courtship behavior and sexual selection in two species of chameleons in southwest Madagascar. Joint Meeting of Ichthyologists and Herpetologists. Tampa, Florida. July 9, 2005.
- Karsten, K. B., L. Andriamandimbiarisoa, C. J. Raxworthy, D. Rakotondravony, and S. F. Fox. Population status of chameleons in southwest Madagascar. Joint Meeting of Ichthyologists and Herpetologists. Norman, Oklahoma. July 29, 2004.
- Karsten, K. B. and J. F. Husak. The effects of age and sex on thermoregulatory behavior in collared lizards, *Crotaphytus collaris*. 39<sup>th</sup> Annual Meeting of the Animal Behavior Society, Indiana University, Bloomington, Indiana. July 13-17, 2002.
- Karsten, K. B., G. W. Ferguson, M. F. Holick, and T. C. Chen. Basking behavior of panther chameleons, *Furcifer pardalis*: behavioral photoregulation to UV and visible light in natural light environments. 38<sup>th</sup> Annual Meeting of the Animal Behavior Society, Oregon State University, Corvallis, Oregon. July 14 – 18, 2001.

## NOTABLE ACHIEVEMENTS

- Research featured in the 2011 BBC documentary, *Madagascar*
- Research featured by *Discovery Channel* (2x), *National Geographic*, *Science News magazine* (2x), *British Broadcasting Corporation (BBC)*, *New Scientist magazine*, *Chronicles of Higher Education*, *National Science Foundation*, *Nature*, *Science*, *Science World*, *Ecological Society of America*, *Wissenschaft (Science)*, *Natural History magazine*
- Research featured by popular news outlets including **The New York Times**, **MSNBC**, **Fox News**, and newspapers in Germany, UK, Italy, Austria, Czech Republic, Poland, Hungary, Spain, Netherlands, Denmark, South Africa, India, Indonesia, Viet Nam, Thailand, China, Mexico, Argentina, and Brazil.
- Radio interview broadcasts featuring research:
  - **National Public Radio (NPR)**
  - **British Broadcasting Corporation (BBC)**
  - **Canadian Broadcasting Corporation (CBC) – 2x**

**PROFESSIONAL SERVICE**

Manuscripts reviewed since 2008 (20):

*Acta Oecologica* (1), *Aging Cell* (1), *Behavioral Ecology* (2), *Behavioral Ecology and Sociobiology* (1), *Biological Journal of the Linnean Society* (3), *Copeia* (2), *Ethology* (1), *Herpetologica* (2), *Herpetological Journal* (1), *Journal of Herpetology* (4), *Phyllomedusa* (1), and *Southeastern Naturalist* (1).