

Curriculum Vitae

KEITH A. METZGER

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Education and Employment

Education

- 2005 Stony Brook University
Ph.D., Anatomical Sciences
Dissertation Title: *The Kinematics of Intraoral Prey Transport in Lizards*.
Advisors: Dr. Brigitte Demes, Stony Brook University, Dr. Callum Ross,
University of Chicago
- 2000 Stony Brook University
M.S., Basic Health Sciences
- 2000 Stony Brook University
M.Phil., Anatomical Sciences
- 1997 University of California at Santa Cruz
B.A., Anthropology (with honors), minor in Biology

Positions Held

- 2005 - Present *Anatomy Postdoctoral Associate*
Brown University, Department of Ecology and Evolutionary Biology
Advisor: Dr. Elizabeth Brainerd
- 2006 *Summer Studies Instructor*
Brown University, Department of Summer and Continuing Studies
- 2003 - 2004 *Visiting Research Associate*
University of Antwerp, Department of Biology

Teaching

- 2005 - Present Brown University: Instructor for *Human Morphology*, a team instructed course in human gross anatomy and embryology taught to 1st year medical students. Duties include curriculum development, laboratory and lecture instruction, preparation and presentation of prosectioned materials, exam writing, oversight and administration of practical examinations, development of Web-based resources for students. Course director: Dr. Elizabeth Brainerd.

- 2006 Brown University: Designed and instructed a 4-week Brown University Summer Studies course, *The Body: Introduction to Human Anatomy*, a class in introductory human anatomy, physiology and histology for advanced high school students. Duties included course development, laboratory and lecture instruction.
- 2002 Stony Brook University: Lecturer for *Vertebrate Evolution*, a course taught to graduate students in the biological sciences. Course director: Dr. Callum Ross.
- 2001 Stony Brook University: Laboratory instructor, *The Body*, a team instructed course in human gross anatomy and embryology taught to 1st year medical students. Duties included laboratory instruction, preparation of practical examinations, and small group tutoring. Course director: Dr. Jack Stern.
- 1999 - 2000 Stony Brook University: Laboratory instructor, *Regional Human Anatomy*, a team instructed course in human gross anatomy and neuroanatomy taught to School of Health Technology and Management students, including physician assistant, physical therapy, occupational therapy, and respiratory care students. Duties included lecture and laboratory instruction, written and practical examination preparation and administration, preparation of prosection materials. Developed Web-based instructional materials. Course director: Dr. Brigitte Demes.
- 2000 Stony Brook University: Course director, *Regional Human Anatomy*, a laboratory-based review of head and neck anatomy taught to dental resident students. Duties included curriculum development and laboratory instruction.
- 1998 - 2001 Stony Brook University: Teaching assistant in Departments of Anthropology and Geology. Subjects included archaeology, evolutionary biology.
- 1996 - 1997 University of California at Santa Cruz: Teaching assistant in Department of Anthropology. Subjects included physical anthropology, human skeletal biology.

Research Activities

Grant Support and Fellowships

- 2005 Society for the Study of Amphibians and Reptiles, Grants-in-Herpetology.
- 2003 - 2004 Belgian American Education Foundation, Brussels, Research Fellowship.
- 2002 Society for Integrative and Comparative Biology, Grants-in-Aid of Research.
- 2002 Field Museum of Natural History, Chicago, Visiting Scientist Scholarship.
- 2001 Sigma Xi, Grants-in-Aid of Research.
- 1998 - 2003 Stony Brook University, Graduate Council Fellowship.
- 1997 University of California at Santa Cruz, Presidential Undergraduate Fellow.

Publications

- Metzger, K.A. and A. Herrel. 2006. Utility of skeletal mass as a measure of body size in lizards. *Journal of Herpetology* 40(3): 381-384.
- Metzger, K.A. and A. Herrel. 2005. Correlations between lizard cranial shape and diet: a quantitative, phylogenetically informed analysis. *Biological Journal of the Linnean Society*. 86(4): 443-466.
- Metzger, K.A., W.J.T. Daniel and C. Ross. 2005. Comparison of beam theory and finite element analysis to *in vivo* bone strain in the alligator cranium. *The Anatomical Record, Part A*. 283A(2): 331-348.
- Ross, C.F. and K.A. Metzger. 2004. Bone strain gradients and optimization in vertebrate skulls. *Annals of Anatomy*. 186(5-6): 387-396.
- Metzger, K.A. 2002. Cranial kinesis in lepidosaurs: skulls in motion. In: *Topics in Vertebrate Functional and Ecological Morphology*, pp. 15-46 (P. Aerts, A. Herrel, K. D'Aout, and R. Van Damme eds.). Shaker Publishing, Maastricht.
- Metzger, K.A. 2000. Society of Vertebrate Paleontology's fifty-ninth annual meeting. *Evolutionary Anthropology* 9(4): 149-150.
- 1999 - 2006. Eleven published abstracts from professional conferences.

Paleontological Fieldwork

- 2001 Cenozoic terrestrial and cave deposits in Southern Madagascar. Team led by Dr. Karen Samonds, Stony Brook University.
- 2001 Late Cretaceous quarries in Berivotra, Madagascar. Team led by Dr. David Krause, Stony Brook University.

Professional Service

Editorial Reviewer for:

Functional Ecology
Journal of Zoology
Physiological and Biochemical Zoology
The Anatomical Record

Invited Lectures

- 2005 Brown University, Department of Ecology and Evolutionary Biology Seminar.
2005 Brown University, Ecology and Evolutionary Biology, Morphology Group.
2001 Stony Brook University, Division of Laboratory Animal Resources.

University Service

Stony Brook University, Graduate Student Organization, Budget Committee, 2000 - 2002.
Stony Brook University, Graduate Student Organization Senator, 1999 - 2002.