CURRICULUM VITAE

E. Christopher Kirk

Department of Anthropology
1 University Station C3200
University of Texas at Austin
Austin, Texas 78712-1086

Phone: (512) 471-0056
Fax: (512) 471-6535
eckirk@mail.utexas.edu

Professional Appointments

2009-Present Associate Professor, Department of Anthropology, University of Texas at Austin
2003-2009 Assistant Professor, Department of Anthropology, University of Texas at Austin
2005-Present Assistant Research Professor, Texas Memorial Museum, University of Texas at Austin
2000-2003 Instructor, Department of Biological Anthropology and Anatomy, Duke University

Education

Ph.D. 2003 Biological Anthropology and Anatomy: Duke University
B.A. 1995 Anthropology: University of Texas at Austin

Professional and Honor Society Memberships

American Association of Physical Anthropology
Society of Vertebrate Paleontology
Phi Beta Kappa

REFEREED PUBLICATIONS

In Press Williams, B. A., Kay, R. F., **Kirk, E. C.**, & Ross C. F. *Darwinius masillae* is a strepsirrhine – a reply to Franzen et al. (2009). *Journal of Human Evolution*.

In Press Williams, B. A., Kay, R. F., & **Kirk, E. C.** New perspectives on anthropoid origins. *Proceedings of the National Academy of Sciences of the United States of America*.

2009 Menegaz, R. A., & **Kirk, E. C.** Septa and processes: convergent evolution of the orbit in haplorhine primates and strigiform birds. *Journal of Human Evolution* 57: 672-687.

2009 **Kirk, E. C.** & Gosselin-Ildari, A. Cochlear labyrinth volume and hearing abilities in primates. *Anatomical Record* 292: 765-776.

2009 Veilleux, C. C., & **Kirk, E. C.** Visual acuity in the cathemeral strepsirrhine *Eulemur macaco flavifrons*. *American Journal of Primatology* 71: 1-10.

2008 Isler, K., **Kirk, E. C.**, Miller, J. M. A., Albrecht, G. A., Gelvin, B. R., & Martin, R. D. Endocranial volumes of primate species: Scaling analyses using a comprehensive and reliable dataset. *Journal of Human Evolution* 55: 967-978.

2008 Williams, B. A., & **Kirk, E. C.** New Uintan primates from Texas and their implications for North American patterns of species richness during the Eocene. *Journal of Human Evolution* 55: 927-941.

2008 **Kirk, E. C.**, Lemelin, P., Hamrick, M. W., Boyer, D. M., & Bloch, J. I. Intrinsic hand proportions of primates and other euarchontan mammals: implications for the locomotor behavior of plesiadapiforms. *Journal of Human Evolution* 55: 278-299.

2007 Ross, C. F. & **Kirk, E. C.** Evolution of eye size and shape in primates. *Journal of Human Evolution* 52: 294-313.

2006 **Kirk, E. C.** Effects of activity pattern on eye size and orbital aperture size in primates. *Journal of Human Evolution* 51: 159-170.

2006 **Kirk, E. C.** Visual influences on primate encephalization. *Journal of Human Evolution* 51: 76-90.

2006 **Kirk, E. C.** Eye morphology in cathemeral lemurids and other mammals. *Folia Primatologica* 77: 27-49.

2005 Smith, D. W., **Kirk, E. C.**, & Buss, E. The function(s) of the medial olivocochlear efferent system in hearing. In: D. Pressnitzer, A. De Cheveigné, S. McAdams, & L. Collet (eds.) *Auditory Signal Processing: Physiology, Psychoacoustics, and Models*. Springer-Verlag, New York. p. 75-83.

2004 **Kirk, E. C.** Comparative morphology of the eye in primates. *The Anatomical Record* 281A: 1095-1103.

2004 **Kirk, E. C.**, & Kay, R. F. The evolution of high visual acuity in the Anthropoidea. In: C. F. Ross & R. F. Kay (eds.) *Anthropoid Origins: New Visions*. Kluwer Academic / Plenum Publishers, New York. p. 539-602.

2003 **Kirk, E. C.**, Cartmill, M., Kay, R. F., & Lemelin, P. Comment on "Grasping primate origins". *Science* 300: 5620.

2003 **Kirk, E. C.**, & Smith, D. W. Protection from acoustic trauma is not a primary function of the medial olivocochlear efferent system. *Journal of the Association for Research in Otolaryngology* 4: 445-465.

2001 **Kirk, E. C.**, & Simons, E. L. Diets of fossil primates from the Fayum Depression of Egypt: a quantitative analysis of molar shearing. *Journal of Human Evolution* 40: 203-229.

2000 Kay, R. F., & **Kirk, E. C.** Osteological evidence for the evolution of activity pattern and visual acuity in primates. *American Journal of Physical Anthropology* 113: 235-262.

SCHOLARLY PRESENTATIONS

Published Abstracts of Presentations at Professional Meetings

2009 **Kirk, E. C.**, & Williams, B. A. Phylogenetic relationships of late Uintan primates from the Devil's Graveyard Formation, Texas. *American Journal of Physical Anthropology.* S48: 165-166.

2008 **Kirk, E. C.,** & Williams, B. A. First Uintan specimens of *Mahgarita* (Primates, Adapiformes) from the Devil's Graveyard Formation, Texas. *Journal of Vertebrate Paleontology* 28: 100A.

2008 Friscia, T., & **Kirk, E. C.** New Middle Eocene (Uintan) carnivorous mammals from the Devil's Graveyard Formation of Trans-Pecos Texas. *Journal of Vertebrate Paleontology* 28: 81A.

2008 Kay, R. F., **Kirk, E. C.,** & Malinzak, M. New data on encephalization in Miocene New World monkeys: implications for anthropoid brain evolution. *Journal of Vertebrate Paleontology* 28: 99A.

2008 **Kirk, E. C.** The influence of habitat acoustics on alarm calls of sifaka (*Propithecus* spp.). *American Journal of Physical Anthropology* Supplement 46: 131.

2008 Lewis, R. J., & **Kirk, E. C.** Female dominance and monomorphism: are patterns of intersexual dominance influenced by sexual dimorphism? *American Journal of Physical Anthropology* Supplement 46: 140.

2007 **Kirk, E. C.**, & Williams, B. A. New specimens of *Mytonius* (Primates, Omomyoidea) from the Devil's Graveyard Formation, Texas. *Journal of Vertebrate Paleontology* 27: 99A.

2007 **Kirk, E. C.**, Lemelin, P., Hamrick, M. W., Bloch, J. I., & Boyer, D. M. Evolution of manual prehensility in Euarchontan mammals. *American Journal of Physical Anthropology* Supplement 44: 143.

2007 Veilleux, C. & **Kirk, E. C.** Visual acuity in a cathemeral lemur species - *Eulemur macaco flavifrons*. *American Journal of Physical Anthropology* Supplement 44: 237.

2007 Gosselin-Ildari, A. & **Kirk, E. C.** Functional morphology of the primate cochlear labyrinth. *American Journal of Physical Anthropology* Supplement 44: 118.

2007 Menegaz, R. & **Kirk, E. C.** Convergent evolution of the postorbital process in owls (Strigidae) and haplorhine primates. *American Journal of Physical Anthropology* Supplement 44: 171.

2006 Kay, R. F., Lincoln, A., Colbert, M., Malinzak, M., & **Kirk, E. C.** Brain size, activity pattern, and visual acuity in *Homunculus patagonicus*, an early Miocene stem platyrrhine: the mosaic evolution of brain size and visual acuity in primates. *Journal of Vertebrate Paleontology* 26: 83A-84A.

2006 Williams, B. A., & **Kirk, E. C.** New Uintan primates from Texas and their implication for North American patterns of diversity in the Eocene. *Journal of Vertebrate Paleontology* 26: 139A

2006 Veilleux, C. C., Klymus, K., & **Kirk, E. C.** A behavioral method for measuring visual acuity in non-human primates. *American Journal of Primatology* 68 S1: 76.

2005 **Kirk, E. C.** Eye morphology in cathemeral lemurids - disequilibrium or adaptation? *American Journal of Physical Anthropology* Supplement 38: 127.

2005 Ross, C. F., **Kirk, E. C.**, & Heesy, C. P. The evolution of eye shape at the origin of Primates and Anthropoidea. *Journal of Vision* 5: 31a.

2004 **Kirk, E. C.** Effects of activity pattern on eye and orbit morphology in primates. *American Journal of Physical Anthropology* Supplement 38: 127.

2003 Smith, D. W., **Kirk, E. C.**, & Buss, E. The biological role of the medial olivocochlear efferent system in hearing. *Journal of the Association for Research in Otolaryngology*.

2003 **Kirk, E. C.** On the relationship between visual specialization and encephalization - a comparative analysis of relative optic foramen size. *American Journal of Physical Anthropology* Supplement 36: 130.

2002 **Kirk, E. C.**, & Smith, D. W. Protection from acoustic trauma is not the primary function of the medial olivocochlear system. *Journal of the Association for Research in Otolaryngology*.

2002 **Kirk, E. C.**, Kay, R. F., & Jungers, W. L. Activity patterns of subfossil lemurs: evidence based on the relative size of the optic canal. *American Journal of Physical Anthropology* Supplement 34: 96.

2001 **Kirk, E. C.**, Deegan II, J. F., & Jacobs, G. H. Behavioral and electrophysiological evidence for lack of ultraviolet sensitivity in strepsirrhine primates. *American Journal of Physical Anthropology* Supplement 32: 90.

2000 **Kirk, E. C.**, & Simons, E. L. Diets of Fayum primates based on molar shearing crest analysis. *American Journal of Physical Anthropology* Supplement 30: 197.

1998 **Kirk, E. C.**, & Williams, B. A. Dental evidence for cheirogaleid affinities. *American Journal of Physical Anthropology* Supplement 26: 139.

1998 Gonzalez, W. G., Kay, R. F., & **Kirk, E. C.** Optic canal and orbit size - implications for the origins of diurnality and visual acuity in primates. *American Journal of Physical Anthropology* Supplement 26: 87.

Scholarly Presentations Without Published Abstracts

2007 International Prosimian Conference, Kwa-Zulu Natal, South Africa
2007 Texas Biological Anthropology Association Inaugural Meeting, Austin, Texas
2001 Second Anthropoid Origins Conference, Powdermill Nature Reserve, Pennsylvania

GRANTS AND FELLOWSHIPS

2009 Wenner-Gren Foundation $13,441
"Effects of nocturnal light environment on the evolution of nocturnal primate color vision"; with C. Veilleux

2009 L.S.B. Leakey Foundation $10,000
"Evolutionary effects of light environment on nocturnal primate color vision"; with C. Veilleux

2008 National Science Foundation $13,133
Dissertation Improvement Grant: "Ecological correlates of differential selection on S opsin genes in nocturnal primates"; with C. Veilleux; BCS-0752692

2007 National Science Foundation $226,192
"Locomotor ontogeny in *Microcebus murinus*, *Petaurus breviceps* and *Monodelphis domestica*: the influence of very small body size on the evolution of primate quadrupedal locomotion"; Co-PI with L. Shapiro; BCS-0647402

2007 UT Research Grant $5,600
"Habitat acoustics of Malagasy forests: A comparative study of excess attenuation, background noise, and lemur vocal adaptations"

2007 National Science Foundation $11,864
Dissertation Improvement Grant: "Fungiform papillae and the evolution of the primate gustatory system"; with L. Alport; BCS-0648884

2006 National Science Foundation $11,829
Dissertation Improvement Grant; “Ecological and morphological correlates of infraorbital foramen size: paleontological implications”; with M. Muchlinski and L. Shapiro; BCS-0622422

2004 UT Summer Research Assignment $11,800
“The evolution of grasping hands in primates: a comparative functional morphological and ecological analysis”

2002 Katherine A. Stern Dissertation Fellowship $20,000

2002 Duke University Arts and Sciences Research Council $2,500

2001 L.S.B. Leakey Foundation $10,000
"A comparative test of the visual hypothesis of primate encephalization"