

## CURRICULUM VITAE

### E. Christopher Kirk

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### PROFESSIONAL APPOINTMENTS

2016-Present University Distinguished Teaching Professor, University of Texas at Austin  
2015-Present Professor, Department of Anthropology, University of Texas at Austin  
2014-Present Research Associate, Vertebrate Paleontology Laboratory, Jackson School  
Museum of Earth History, University of Texas at Austin  
2009-2015 Associate Professor, Department of Anthropology, University of Texas at Austin  
2005-2014 Assistant Research Professor, Texas Memorial Museum,  
University of Texas at Austin  
2003-2009 Assistant Professor, Department of Anthropology, 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

### HONORS & AWARDS

2016 **Member, Academy of Distinguished Teachers** – Recognizes tenured faculty members who have made sustained and significant contributions to education, particularly at the undergraduate level; Nominated by the Department of Anthropology and the College of Liberal Arts  
2016 **Billy Carr Distinguished Teaching Fellowship** – Awarded in recognition of my efforts to include students as participants in my paleontological field research; selected by the Environmental Sciences Institute at UT Austin  
2015 **Leslie Waggener Centennial Teaching Fellowship** – Recognizes faculty members in the College of Liberal Arts who have exemplified outstanding teaching in honors courses; Nominated by the Department of Anthropology

- 2014 **Dads' Association Centennial Teaching Fellowship** – Recognizes teaching excellence and commitment to undergraduate education; Nominated by the Department of Anthropology and the College of Liberal Arts
- 2013 **Texas Ten** - Texas Exes' list of the 10 best and most inspiring UT professors; Nominated by University of Texas alumni
- 2010 **Friar Centennial Teaching Fellowship** - Recognizes a faculty member who has attained distinction in teaching undergraduates and who has made a significant contribution to the University of Texas beyond the duties of her or his calling; Nominated by University of Texas undergraduates

## TEACHING, ADVISING, AND RELATED STUDENT SERVICE

### **Courses Taught**

#### University of Texas at Austin (2003 – present)

- ANT 301 Introduction to Physical Anthropology
- ANT 301 Introduction to Physical Anthropology - Honors
- ANT 348K Evolutionary Anatomy of the Head and Neck
- ANT 350C Primate Sensory Ecology
- ANT 366 Anatomy and Biology of The Human Skeleton
- ANT 379 Topics in Anthropology; Topics have included: (1) Evolution of Primate Color Vision, (2) Evolution of Mammalian Dentitions
- ANT 679H Honors Tutorial; Topics have included: (1) Evolution of Avian Circum-orbital Morphology, (2) Functional Morphology of the Primate Cochlea, (3) Scaling of the Mammalian Cochlear Labyrinth, (4) Fossil Primate Endocasts & Primate Brain Evolution, (5) Semicircular Canal Functional Anatomy
- ANT 388 Graduate Primate Sensory Ecology
- ANT 388 Graduate Evolutionary Anatomy of the Head and Neck
- ANT 392L Introduction to Graduate Biological Anthropology Part 1: Primate Morphology and Evolution
- ANT 398T Supervised Teaching in Anthropology

#### Duke University (1996 – 2003)

- BAA 93 Introduction to Biological Anthropology (instructor of record)
- BAA 133L The Human Body (lab instructor)
- BAA 132 Human Evolution (teaching assistant)
- BAA 172L Comparative Primate Anatomy (lab instructor)
- BAA 305 Human Gross Anatomy (lab instructor)

#### Guest Lectures (various dates, some recurring):

ANT 388, Primate Evolution; ANT 392L, Introduction to Graduate Physical Anthropology; BIO 370, Evolution; FS 118, Manifest Destiny and the Environment; GEO 389P, Digital Methods in Morphology; LAH 102H, Liberal Arts Honors Freshman Seminar; NEU 337, From the Eye to the Brain; PSY 394T, Evolutionary Social Psychology

## Graduate Students Supervised

1. Ingrid Lundeen, M.A. expected spring 2017
2. Amy Atwater, M.A. expected spring 2017
3. Addison Kemp, M.A. (2013); Ph.D. expected fall 2017
4. Carrie Veilleux, Ph.D. (2012) Dissertation Title: *Effects of Light Environments on the Evolution of Primate Visual Systems*
5. Laura Alport, Ph.D. (2009) Dissertation Title: *Fungiform Papillae and the Evolution of the Primate Gustatory System*
6. Magdalena Muchlinski, Ph.D. (2008) Dissertation Title: *Ecological and Morphological Correlates of Infraorbital Foramen Size and its Paleoecological Implications*

## Graduate Committee Membership

Amber Heard-Booth (Anthropology); ongoing  
Rachel V. Simon (Jackson School of Geological Sciences); ongoing  
Donald Cerio (Department of Biological Sciences, Ohio University); ongoing  
Katie Browne (Jackson School of Geological Sciences); M.S. completed 2014  
Angel Zeininger (Anthropology); Ph.D. completed 2013  
Gabrielle Russo (Anthropology); Ph.D. completed 2013  
Michelle Stocker (Jackson School of Geological Sciences); Ph.D. completed 2013  
Jeri Berlin (Jackson School of Geological Sciences); Ph.D. completed 2011  
Carl Toborowsky (Anthropology); M.A. completed 2009  
Laurel Carnes (Anthropology); M.A. completed 2009  
Oscar Diaz (School of Music); DMA completed 2008  
Beth Dawson (Integrative Biology); Ph.D. completed 2007

## Undergraduate Honors Theses Supervised

1. Emily Edwards, fall 2015-spring 2016. Thesis Title: *Disease and Dental Wear on the Upper Texas Coast: Cross-Era Comparison of Native American Health at Mitchell Ridge, Galveston Island*
2. Paul Viola, Fall 2014-Spring 2015. Thesis Title: *Semicircular Canal Morphology in Mesozoic Mammals*
3. Elissa Ludeman, spring 2010-fall 2010. Thesis Title: *Cochlear Labyrinth Volume Reconstruction and Hearing Abilities in Mammals*
4. Parham Daghighi, fall 2009-spring 2010. Thesis Title: *Rooneyia viejaensis: an Investigation via Virtual Endocast*
5. Autumn Blaylock, fall 2007-spring 2008. Thesis Title: *Scaling of the Mammalian Cochlear Labyrinth*
6. Rachel Menegaz, spring-fall 2006. Thesis Title: *Functional Convergence of the Haplorhine Postorbital Septum and Strigiform Postorbital Process*
7. Ashley Gosselin-Ildari, fall 2005-spring 2006. Thesis Title: *Functional Morphology of the Bony Labyrinth in Primates*

Second reader for: Eva Garrett (2005), Jessica Graves (2010), Katie Sayre (2013)

## **College of Liberal Arts Undergraduate Research Apprentices**

Cassidy Malone, fall 2016; Delia Rospigliosi, spring 2016; Kelsey Carolan, spring 2012; Macy Koontz, spring 2011

## **Undergraduate Paleontological Research Assistants**

Lauren Berry, Robert Burroughs, Marie Butcher, Carrie Cunningham, Parham Daghighi, Eva Garrett, Ashley Gosselin-Ildari, Phoebe Fairbairn, Elissa Ludeman, Takashi Makino, Nicole Shusterman, Christyna Solhan, Mackenzie Stewart, Paul Viola  
(Research Assistants participated in at least one field season collecting vertebrate fossils *and* spent at least one semester working to prepare and identify these fossils at the Jackson School Museum of Earth History's Vertebrate Paleontology Lab)

## **ADMINISTRATIVE AND COMMITTEE SERVICE**

Anthropology Faculty Undergraduate Advisor, 2013-ongoing  
Chair - Undergraduate Studies Committee, 2008-2009, 2013-ongoing  
Primary Faculty Administrator - Transcript-recognized minor in Evolutionary and Functional Anatomy, 2016 - ongoing  
Anthropology Assessment Committee, 2012-ongoing  
Anthropology Promotion and Tenure Committee, 2015-ongoing  
Faculty Sponsor, UT Anthropological Society, 2005-2009, 2014-ongoing  
Anthropology Graduate Advisor, 2009-2013  
Anthropology Graduate Studies Steering Committee, 2009-2013  
Anthropology Admissions Committee, 2010-2013  
College of Liberal Arts Policy and Curriculum Committee, 2009-2011  
Course Committee, 2004-2006, 2009  
Web Development Faculty Liaison, 2008  
Executive Committee, 2005-2007  
Interim Chair - Undergraduate Advisory Committee, 2005  
Computer Committee, 2003-2004

## **PROFESSIONAL SERVICE**

**Associate Editor:** *American Journal of Physical Anthropology*, 2014-ongoing

### **Grant Reviewer (various dates, ongoing):**

L.S.B. Leakey Foundation, National Geographic Society, National Science Foundation (NSF), National Sciences and Engineering Research Council of Canada (NSERC), University of Texas COLA Faculty Research Grants, University of Texas Undergraduate Research Fund, Sam Houston State University Enhancement Grant for Research

**Manuscript Reviewer (various dates, ongoing):**

*American Journal of Physical Anthropology, Anatomical Record, Behavioral Ecology and Sociobiology, Brain Behavior and Evolution, Evolutionary Anthropology, Folia Primatologica, Journal of Anatomy, Journal of Human Evolution, Journal of Integrative Biology, Journal of Mammalian Evolution, Journal of Morphology, Journal of Zoology, Mammalian Biology, Nature Education Knowledge, Nature Scientific Data, Proceedings of the National Academy of Sciences USA, Proceedings of the Royal Society B: Biological Sciences, Vision Research*

**REFEREED JOURNAL ARTICLES**

Accepted Muchlinski, M. N. & **Kirk, E. C.** A comparative analysis of infraorbital foramen size in Paleogene euarchontans. *Journal of Human Evolution*.

2016 Veilleux, C. C., Scarry, C. J., Di Fiore, A., **Kirk, E. C.**, Bolnick, D. A., & Lewis, R. J. Group benefit associated with polymorphic trichromacy in a Malagasy primate (*Propithecus verreauxi*). *Scientific Reports*. 6: 38418 | DOI: 10.1038/srep38418

2016 Boyer, D. M., **Kirk, E. C.**, Silcox, M. T., Gunnell, G. F., Gilbert C. C., Yapuncich, G. S., Allen, K. L., Welch, E., Bloch, J. I., Gonzalez, L., Kay, R. F., & Seiffert, E. R. Internal carotid arterial canal size and scaling in Euarchonta: Re-assessing implications for arterial patency and phylogenetic relationships in early fossil primates. *Journal of Human Evolution*. 97: 123-144.

2016 Stocker, M. R. & **Kirk, E. C.** The first amphisbaenians from Texas with notes on other squamates from the Middle Eocene Purple Bench locality. *Journal of Vertebrate Paleontology*. 36: e1094081.

2014 **Kirk, E. C.**, Hoffmann, S., Kemp, A. D., Krause, D. W., & O'Connor, P. M. Sensory anatomy and sensory ecology of *Vintana sertichi* (Mammalia, Gondwanatheria) from the Late Cretaceous of Madagascar. *Journal of Vertebrate Paleontology*. Volume 34, Supplement to Number 6: 203-222.

2014 Hoffmann, S., O'Connor, P. M., **Kirk, E. C.**, Wible, J. R., & Krause, D. W. Endocranial and inner ear morphology of *Vintana sertichi* (Mammalia, Gondwanatheria) from the Late Cretaceous of Madagascar. *Journal of Vertebrate Paleontology*. Volume 34, Supplement to Number 6: 110-136.

2014 Krause, D. W., Hoffmann, S., Wible, J. R., **Kirk, E. C.**, Schultz, J. A., Koenigswald, W. v., Groenke, J. R., Rossie, J. B., O'Connor, P. M., Seiffert, E., Dumont, E. R., Holloway, W. L., Rogers, R. R., Rahantarisoa, L. J., Kemp, A. D., & Andriamialison, H. First cranial remains of a gondwanatherian mammal reveal remarkable mosaicism. *Nature*. 515: 512-517.

2014 **Kirk, E. C.**, Daghighi, P., Macrini, T. E., Bhullar, B.-A. S., & Rowe, T. B. Cranial anatomy of the Duchesnean primate *Rooneyia viejaensis*: New insights from high

- resolution computed tomography. *Journal of Human Evolution*. 74: 82-95.
- 2014 Campisano, C. J., **Kirk, E. C.**, Townsend, K. E. B., & Deino, A. L. Geochronological and taxonomic revisions of the Middle Eocene Whistler Squat Quarry (Devil's Graveyard Formation, Texas) and implications for the Early Uintan in Trans-Pecos Texas. *PLoS One*. 9(7): e101516.
- 2014 Kemp, A. D. & **Kirk, E. C.** Eye size and visual acuity influence vestibular anatomy in mammals. *Anatomical Record*. 297: 781-790.
- 2014 Veilleux, C. C. & **Kirk, E. C.** Visual acuity in mammals: effects of eye size and ecology. *Brain, Behavior & Evolution*. 83: 43-53.
- 2013 Berlin, J. C., **Kirk, E. C.**, & Rowe, T. B. Functional implications of ubiquitous semicircular canal non-orthogonality in mammals. *PLoS One*. 8(11): e79585.
- 2013 Russo, G. A. & **Kirk, E. C.** Foramen magnum position in bipedal mammals. *Journal of Human Evolution*. 65: 656-670.
- 2013 **Kirk, E. C.** Characteristics of crown primates. *Nature Education Knowledge*. 4(8):3.
- 2012 Hall, M. I., Kamilar, J. M., & **Kirk, E. C.** Eye shape and the nocturnal bottleneck of mammals. *Proceedings of the Royal Society B*. 279: 4962-4968.
- 2012 Heard-Booth, A. N. & **Kirk, E. C.** The influence of maximum running speed on eye size: a test of Leuckart's law in mammals. *Anatomical Record*. 295: 1053-1062.
- 2012 Cummings, J. R., Muchlinski, M., **Kirk, E. C.**, Rehorek, S. J., DeLeon, V. B., & Smith, T. D. Eye size at birth in prosimian primates: life history correlates and growth patterns. *PLoS One*. 7: e36097.
- 2011 Hall, M. I., **Kirk, E. C.**, Kamilar, J. M., & Carrano, M. T. Comment on "Nocturnality in dinosaurs inferred from scleral ring and orbit morphology". *Science*. 334: 1641-b.
- 2011 **Kirk, E. C.** & Williams, B. A. New adapiform primate of Old World affinities from the Devil's Graveyard Formation of Texas. *Journal of Human Evolution*. 61: 156-168.
- 2010 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*. 59: 567-573.
- 2010 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*. 107: 4797-4804.

- 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 **Kirk, E. C.** & Gosselin-Ildari, A. Cochlear labyrinth volume and hearing abilities in primates. *The Anatomical Record* 292: 765-776.
- 2009 Veilleux, C. C., & **Kirk, E. C.** Visual acuity in the catemeral 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 catemeral lemurids and other mammals. *Folia Primatologica* 77: 27-49.
- 2004 **Kirk, E. C.** Comparative morphology of the eye in primates. *The Anatomical Record* 281A: 1095-1103.
- 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.

### **REFEREED BOOK CHAPTERS**

- 2012 Kay, R. F., Perry, J. M. G., Malinzak, M., Allen, K. L., **Kirk, E. C.**, Plavcan, J. M., & Fleagle, J. G. The paleobiology of Santacrucian primates. In: Vizcaino, Kay, & Bargo (eds.) *Early Miocene Paleobiology in Patagonia*. Cambridge University Press, Cambridge. p. 306-330.
- 2004 **Kirk, E. C.**, & Kay, R. F. The evolution of high visual acuity in the Anthroidea. In: C. F. Ross & R. F. Kay (eds.) *Anthropoid Origins: New Visions*. Kluwer Academic / Plenum Publishers, New York. p. 539-602.
- 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.

### **SCHOLARLY PRESENTATIONS**

#### **Published Abstracts of Presentations at Professional Meetings**

- 2016 **Kirk, E. C.**, Atwater, A. L., Campisano, C. J., Egberts, S., & Lundeen, I. K. A new primate partial cranial specimen from the Late Middle Eocene of the Tornillo Basin, Texas. *Journal of Vertebrate Paleontology, Abstract volume 2016*: 167.
- 2016 Lundeen, I. K., & **Kirk, E. C.** Reduction of the olfactory system in primates: new insights from the nasal fossa of the Duchesnean primate *Rooneyia viejaensis*. *Journal of Vertebrate Paleontology, Abstract volume 2016*: 178.
- 2016 Atwater, A. L., & **Kirk, E. C.** New Uintan omomyoids (Primates, Haplorhini) from Southern California and the implications for North American primate richness during the Middle Eocene. *Journal of Vertebrate Paleontology, Abstract volume 2016*: 90.
- 2016 Garrett, E. C., Gonzales, L. A., **Kirk, E. C.**, & Seiffert, E. R. The vomeronasal groove in fossil primates. *Journal of Vertebrate Paleontology, Abstract volume 2016*: 142.
- 2016 **Kirk, E. C.**, Atwater, A. L., Campisano, C. J., Egberts, S., & Lundeen, I. K. An Eocene primate frontal from the Devil's Graveyard Formation, Texas. *American Journal of Physical Anthropology*. S62: 191.



- 2016 Russo, G. A., **Kirk, E. C.**, & Smaers, J. B. Elucidating the evolutionary pathways of hominoid and hominin basicranial morphology using a formal phylogenetic comparative primate approach. *American Journal of Physical Anthropology*. S62: 276.
- 2015 Atwater, A. L., & **Kirk, E. C.** Dental variability in *Omomys* (Primates, Omomyoidea) and the validity of *O. lloydi*. *Journal of Vertebrate Paleontology, Abstract volume 2015*: 81.
- 2015 Boyer, D. M., Bloch, J. I., **Kirk, E. C.**, Gilbert, C. C., Allen, K. L., Gunnell, G. F., Yapuncich, G. S., Kay, R. F., & Seiffert, E. R. Re-evaluation of promontory arterial dominance in early primates. *Journal of Vertebrate Paleontology, Abstract volume 2015*: 94.
- 2015 Viola, P. A., Kemp, A. D., **Kirk, E. C.**, Bhullar, B., Cifelli, R. L., Martínez, R. N., Rougier, G. W., Wallace, R. V., & Rowe, T. B. Vestibular sensitivity in extant monotremes and in Mesozoic mammalian morphs. *Journal of Vertebrate Paleontology, Abstract volume 2015*: 232.
- 2015 Hoffmann, S., Krause, D. W., & **Kirk, E. C.** Inner ear morphology of a new Late Cretaceous Malagasy mammal indicates convergence in cochlear evolution. *Journal of Vertebrate Paleontology, Abstract volume 2015*: 144.
- 2015 Garrett, E. C., & **Kirk, E. C.** On the relationship between visual acuity and vomeronasal function in primates. *American Journal of Physical Anthropology*. S60: 142.
- 2014 **Kirk, E. C.**, Rodgers, M. C., & Rowe, T. B. Functional implications of semicircular canal non-orthogonality in mammals. *American Journal of Physical Anthropology*. S58: 157-158.
- 2013 Campisano, C., **Kirk, E. C.**, Townsend, K., Deino, A., & McDowell, F. Geochronological and taxonomical revision of the Middle Eocene Whistler Squat Quarry (Devil's Graveyard Formation, Texas) and implications for the Early Uintan in West Texas. *Journal of Vertebrate Paleontology, Abstract volume 2013*: 100.
- 2013 Berlin, J. C., **Kirk, E. C.**, Rodgers, M. C., Rowe, T. B., & Hullar, T. E. Global sensitivity of the mammalian head to rotation: Importance of semicircular canal orientation for locomotor agility in therian mammals. *Integrative and Comparative Biology*. 53: E246.
- 2013 Hall, M. I., Kamilar, J. M., **Kirk, E. C.**, Carrano, M. T., & Iwaniuk, A. N. The relationship between scleral ring morphology and activity pattern in birds and dinosaurs. *Integrative and Comparative Biology*. 53: E292.
- 2013 Gosselin-Ildari, A. D., **Kirk, E. C.**, & Ludeman, E. M. Functional correlates of cochlear shape. *American Journal of Physical Anthropology*. S56: 134.
- 2013 Hall, M. I., **Kirk, E. C.**, & Kamilar, J. M. Activity pattern can only be predicted from eye

- morphology for haplorhine primates among mammals. *American Journal of Physical Anthropology*. S56: 141.
- 2013 Kemp, A. D., & **Kirk, E. C.** Eye size as a selective determinant of vestibular sensitivity. *American Journal of Physical Anthropology*. S56: 165.
- 2013 Ludeman, E. M., **Kirk, E. C.**, Gosselin-Ildari, A. D., Blaylock, A., Kay, R. F., Godinot, M. Cochlear labyrinth volume and predicted hearing abilities in *Adapis*, *Necrolemur*, *Homunculus*, and *Tremacebus*. *American Journal of Physical Anthropology*. S56: 184.
- 2012 **Kirk, E. C.**, Kemp, A. D., Simons, E. L., & Seiffert, E. R. Morphology of the petrosal and bony labyrinth in *Afradapis longicristatus* (Primates, Adapiformes). *Journal of Vertebrate Paleontology, Abstract volume 2012*: 121.
- 2012 Stocker, M. R., Brochu, C. A., & **Kirk, E. C.** Spatial and temporal shifts in Paleogene crocodyliform diversity and a new globidont alligatoroid from the Middle Eocene of West Texas. *Journal of Vertebrate Paleontology, Abstract volume 2012*: 180.
- 2012 **Kirk, E. C.**, Seiffert, E. R., & Simons, E. L. Petrosal anatomy of *Afradapis longicristatus* (Primates, Adapiformes). *American Journal of Physical Anthropology*. S54: 181-182.
- 2012 Smith, T. D., Cummings, J. R., Muchlinski, M. N., Kirk, E. C., Rehorek, S. J., & DeLeon, V. B. Relative eye size at birth in strepsirrhines and *Tarsius*: life history correlates and growth patterns. *American Journal of Physical Anthropology*. S54: 273-274.
- 2011 **Kirk, E. C.**, & Williams, B. A. *Mescalerolemur horneri*: a new adapiform primate from the Middle Eocene of West Texas. *Journal of Vertebrate Paleontology, Abstract volume 2011*: 136.
- 2011 Stocker, M. R. & **Kirk, E. C.** Discerning the diversity and biogeographic history of amphisbaenians (Squamata) in the late Uintan (Middle Eocene) based on the first specimens from West Texas. *Journal of Vertebrate Paleontology, Abstract volume 2011*: 201.
- 2011 **Kirk, E. C.**, Ludeman, E., Blaylock, A., & Gosselin-Ildari, A. Cochlear labyrinth size and hearing abilities in mammals. *American Journal of Physical Anthropology*. S52: 186-187.
- 2011 Graves, J., **Kirk, E. C.**, & Lewis, R. J. Effects of social cohesion, pair-bonding and monogamy on primate brain evolution. *American Journal of Physical Anthropology*. S52: 159.
- 2011 Heard-Booth, N., & **Kirk, E. C.** Eye size and locomotion: A test of Leuckart's Law in mammals. *American Journal of Physical Anthropology*. S52: 147-148.
- 2010 **Kirk, E. C.**, Daghighi, P., Macrini, T., Bhullar, B.-A. S., & Rowe, T. B. Virtual endocast

- of *Rooneyia viejaensis* (Mammalia, Primates). *Journal of Vertebrate Paleontology*, Abstract volume 2010: 116A.
- 2010 **Kirk, E. C.**, & Russo, G. A. Forward shift of the foramen magnum in humans and other bipedal mammals. *American Journal of Physical Anthropology*. S50: 142-143.
- 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 prehensibility 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**

- 2014 International Primatological Society, XXV Congress, Hanoi, Vietnam  
2013 Texas Association of Biological Anthropologists, UT Austin  
2010 Texas Association of Biological Anthropologists, Baylor University  
2008 Texas Association of Biological Anthropologists, Texas A&M  
2007 International Prosimian Conference, Kwa-Zulu Natal, South Africa  
2007 Texas Biological Anthropology Association Inaugural Meeting, UT Austin  
2001 Second Anthropoid Origins Conference, Powdermill Nature Reserve, Pennsylvania

### **Invited Lectures**

- 2016 Makula Update conference, Bonn, Germany  
2016 AURONET (Aural Rehabilitation Outcomes Network) conference, Austin, Texas  
2015 Dean's Scholars Seminar Series, UT Austin  
2015 European Society of Retina Specialists Annual Meeting - Featured speaker at Novartis "NEO Evolutions in Ophthalmology" symposium; Nice, France  
2015 University of Zürich - Paleontological Institute and Museum, Zürich, Switzerland  
2015 University of Zürich - Anthropological Institute and Museum, Zürich, Switzerland  
2015 Ohio University - Department of Biomedical Sciences, Athens, Ohio  
2015 Paleo Lunch Seminar Series, Jackson School of Geosciences, UT Austin  
2013 Duke University - Evolutionary Anthropology Lecture Series, Durham, North Carolina  
2013 Stony Brook University - Interdepartmental Doctoral Program in Anthropological Sciences Seminar Series, Stony Brook, New York  
2013 Center for Perceptual Studies, UT Austin  
2013 Honors Colloquium, UT Austin  
2013 National Conference on Pediatric Standards for Bone-Anchored Hearing Aids, Oticon Medical, Austin, Texas  
2012 New York Consortium in Evolutionary Primatology, New York, New York  
2011 Anthropology Departmental Seminar Series, UT Austin  
2010 Science Undergraduate Research Group, UT Austin  
2010 American Association of Anatomists - Biological Anthropology Symposium, Anaheim, California  
2009 Paleo Lunch Seminar Series, Jackson School of Geosciences, UT Austin  
2008 Harvard University - Biological Anthropology Seminar Series, Cambridge, Massachusetts  
2008 University of Southern California - Integrative and Evolutionary Biology Seminar Series, Los Angeles, California  
2007 University of Texas Anthropological Society, UT Austin  
2006 Dean's Scholars Seminar Series, UT Austin  
2006 Ransom Reading Group, UT Austin  
2005 Freshman Interest Group, UT Austin

- 2005 Women in Science, UT Austin
- 2005 Integrative Biology Pop Bio Seminar, UT Austin
- 2005 Stony Brook University - Physical Anthropology Seminar Series, Stony Brook, New York
- 2004 Dean's Scholars Seminar Series, UT Austin
- 2004 Center for Perceptual Studies, UT Austin
- 2003 Duke University - Neurobiology Seminar Series, Durham, North Carolina

### **Public Outreach**

- 2016 Hot Science, Cool Talks Lecture Series, UT Austin
- 2016 Tumble Science Podcast for Kids interview
- 2016 Lecture - Lakeway Men's Breakfast Club, Lakeway TX
- 2016 Consultant for NHK (Japanese Public Television) documentary on slow lorises
- 2015 Lecture - Town and Gown Society, Austin TX
- 2015 Lecture - Lee Elementary School, Austin TX
- 2015 Lecture - Magellan International School, Austin TX
- 2014 Lecture - Lee Elementary School, Austin TX
- 2014 Consultant for PBS television series *Your Inner Fish*
- 2012 Academic Minute Podcast - WAMC Northeast Public Radio
- 2011 Hot Science, Cool Talks Lecture Series, UT Austin
- 2011 UT Forum (Lecture Forum for Seniors), Austin, Texas
- 2011 UT Quest (Lecture Forum for Seniors), Austin, Texas
- 2010 Learning Activities for Mature People (Lecture Forum for Seniors), Austin, Texas
- 2010 Darwin Day Lecture - Texas Memorial Museum, UT Austin
- 2008 Food For Thought Lecture Series - Austin Center for Inquiry, Austin, Texas
- 2008 Featured in premiere episode of History Channel television series *Evolve*
- 2008 Career Day Presentation - Hill Country Middle School, Austin, Texas
- 2007 Darwin Day Lecture - Austin Center for Inquiry, Austin, Texas
- 2006 Lecture - Zilker Elementary School, Austin, Texas

### **GRANTS AND RESEARCH FELLOWSHIPS**

- |  |                                 |                 |
|--|---------------------------------|-----------------|
| <b>2015</b>  | <b>L.S.B. Leakey Foundation</b> | <b>\$6,699</b>  |
| "Elucidating the evolutionary pathways of hominin basicranial morphology using a formal phylogenetic comparative primate approach"; Co-PI with Gabrielle Russo |                                 |                 |
| <b>2009</b>  | <b>Wenner-Gren Foundation</b>   | <b>\$13,441</b> |
| "Effects of nocturnal light environment on the evolution of nocturnal primate color vision"; with C. Veilleux  |                                 |                 |
| <b>2009</b>  | <b>L.S.B. Leakey Foundation</b> | <b>\$10,000</b> |
| "Evolutionary effects of light environment on nocturnal primate color vision"; with C. Veilleux  |                                 |                 |

<b>2008</b>	<b>National Science Foundation</b>	<b>\$13,133</b>
Dissertation Improvement Grant: "Ecological correlates of differential selection on S opsin genes in nocturnal primates"; with C. Veilleux; BCS-0752692		
<b>2007</b>	<b>National Science Foundation</b>	<b>\$226,192</b>
"Locomotor ontogeny in <i>Microcebus murinus</i> , <i>Petaurus breviceps</i> and <i>Monodelphis domestica</i> : the influence of very small body size on the evolution of primate quadrupedal locomotion"; Co-PI with L. Shapiro; BCS-0647402		
<b>2007</b>	<b>University of Texas Research Grant</b>	<b>\$5,600</b>
"Habitat acoustics of Malagasy forests: A comparative study of excess attenuation, background noise, and lemur vocal adaptations"		
<b>2007</b>	<b>National Science Foundation</b>	<b>\$11,864</b>
Dissertation Improvement Grant: "Fungiform papillae and the evolution of the primate gustatory system"; with L. Alport; BCS-0648884		
<b>2006</b>	<b>National Science Foundation</b>	<b>\$11,829</b>
Dissertation Improvement Grant; "Ecological and morphological correlates of infraorbital foramen size: paleontological implications"; with M. Muchlinski and L. Shapiro; BCS-0622422		
<b>2004</b>	<b>UT Summer Research Assignment</b>	<b>\$11,800</b>
"The evolution of grasping hands in primates: a comparative functional morphological and ecological analysis"		
<b>2002</b>	<b>Katherine A. Stern Dissertation Fellowship</b>	<b>\$20,000</b>
<b>2002</b>	<b>Duke University Arts and Sciences Research Council</b>	<b>\$2,500</b>
<b>2001</b>	<b>L.S.B. Leakey Foundation</b>	<b>\$10,000</b>
"A comparative test of the visual hypothesis of primate encephalization"		