

## CURRICULUM VITAE

**Liza J. Shapiro**

Department of Anthropology  
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### **Professional Appointments:**

2008-present Professor, Department of Anthropology, University of Texas at Austin  
9/1/2021-1/15/2022 Interim Chair, Department of Anthropology, University of Texas at Austin  
2011-2014 Associate Chair, Department of Anthropology, University of Texas at Austin  
1997-2008 Associate Professor, Department of Anthropology, University of Texas at Austin  
1990-1997 Assistant Professor, Department of Anthropology, University of Texas at Austin

### **Editorial Appointments:**

2020-2023 Associate Editor, *Journal of Human Evolution*  
2005-2010 Associate Editor, *American Journal of Physical Anthropology*  
2004-2007 Associate Editor, *Journal of Human Evolution*

### **Education:**

Ph.D. 1991 Anthropology, State University of New York at Stony Brook.

**Dissertation:** Functional Morphology of the Primate Spine with Special Reference to Orthograde Posture and Bipedal Locomotion.

M.A. 1989 Anthropology, State University of New York at Stony Brook

B.A. 1983 Anthropology/Psychology, State University of New York at Albany, Summa Cum Laude.

### **Current Research:**

Functional morphology and evolution of primate locomotor adaptations  
Kinematics of primate locomotion  
Comparative anatomy and function of the vertebral musculoskeletal system in primates  
Ontogeny of locomotion in primates  
Reconstruction of locomotor behavior in fossil primates.

### **Professional and Honor Society Memberships:**

American Association of Biological Anthropologists  
Texas Association of Biological Anthropologists  
UT CARE (Cellular to Clinically Applied Rehabilitation Research and Engineering)  
Phi Beta Kappa

## **Refereed Journal Articles:**

- (In press) Janisch J., Myers L., Schapker, N., Kirven, J., **Shapiro L.J.**, and Young J.W. Pump and sway: wild primates use compliant supports as a tool to augment leaping in the canopy. *American Journal of Biological Anthropology*.
- (In press) Janisch J., McNamara A., Myers L.C., Schapker, N., Dunham N.T., Phelps T., Mundry R., Hieronymus T., **Shapiro L.J.**, and Young J.W. Ecological and phylogenetic influences on limb joint kinematics in wild primates. *Zoological Journal of the Linnean Society*.
- (Under revision) Zeininger, A., Schmitt, D., Jensen, J.L., and **Shapiro, L.J.** Variable gearing at the ankle during walking in young adults and young children: implications for foot development and evolution. *Frontiers in Earth Science*.
- (Under review) Schapker N., Janisch J., Myers L.C., Phelps T., **Shapiro L.J.**, Young J.W. From such great heights: the effects of substrate height and the perception of risk on lemur locomotor mechanics. *American Journal of Biological Anthropology*
- 2021 Young J.W, Chadwell, B.A.; Dunham, N.T., McNamara, A., Phelps, T., Hieronymus,T., and **Shapiro, L.J.** The stabilizing function of the tail during arboreal quadrupedalism. *Integrative and Comparative Biology*. 61: 491–505. doi: 10.1093/icb/icab096\*
- (\*“Outside JEB” coverage: Jan Stenum; An agile tail is a boon in trees. *J Exp Biol* 1 August 2021; 224 (15): JEB236885. doi: <https://doi-org.ezproxy.lib.utexas.edu/10.1242/jeb.236885>)
- 2020 Williams, S.A., Prang, T.C., Meyer, M.R., Russo, G.A., and **Shapiro, L.J.** Reevaluating bipedality in *Danuvius*. *Nature*.586: E1-E3.
- 2020 Dunham, N.T., McNamara, A., **Shapiro, L.J.**, Phelps, T., and Young J.W. Asymmetrical gait kinematics of free-ranging callitrichines in response to changes in substrate diameter and orientation. *Journal of Experimental Biology*. doi:10.1242/jeb.217562
- 2019 McNamara, A., Dunham, N.T., **Shapiro, L.J.**, and Young J.W. The effects of natural substrate discontinuities on the quadrupedal gait kinematics of free-ranging *Saimiri sciureus*. *American Journal of Primatology*. 81.e23055. <https://doi.org/10.1002/ajp.23055>
- 2019 Dunham, N.T., McNamara, A., **Shapiro, L.J.**, Hieronymus,, T. and Young J.W. Effects of substrate and phylogeny on quadrupedal gait in free-ranging platyrrhines. *American Journal of Physical Anthropology*. 170 (4) 565-578. DOI: 10.1002/ajpa.23942
- 2019 Boyer, D.M. Yapuncich G.S., Dunham, N.T., McNamara, A., **Shapiro, L.J.** Hieronymus,T.L., and Young J.W. My branch is your branch: Talar morphology

- correlates with relative substrate size in platyrrhines at Tiputini Biodiversity Station, Ecuador. *Journal of Human Evolution*.133:23-31. DOI: 10.1016/j.jhevol.2019.05.012
- 2019 **Shapiro, L.J.** and Kemp, A.D. Functional and developmental influences on intraspecific variation in catarrhine vertebrae *American Journal of Physical Anthropology* 168:131-144. DOI: 10.1002/ajpa.23730
- 2019 Dunham, N.T., McNamara, A., **Shapiro, L.J.**, Phelps, T., Wolfe A. and Young J.W. Locomotor kinematics of tree squirrels (*Sciurus carolinensis*) in free-ranging and laboratory environments: Implications for primate locomotion and evolution. *Journal of Experimental Zoology*. 331:103-119. DOI: 10.1002/jez.2242
- 2018 Dunham, N.T., McNamara, A., **Shapiro, L.J.**, Hieronymus,, T. and Young J.W. A user's guide for the quantitative analysis of substrate characteristics and locomotor kinematics in free-ranging primates. *American Journal of Physical Anthropology*.167: 569-584. DOI: 10.1002/ajpa.23686
- 2018 Young, J.W. and **Shapiro, L.J.** Developments in development: what have we learned from primate locomotor ontogeny? *American Journal of Physical Anthropology*.165:37-71.
- 2018 Zeininger, A., Schmitt, D., Jensen, J.L., and **Shapiro, L.J.** Ontogenetic changes in foot strike pattern and calcaneal loading during walking in young children. *Gait and Posture*. 59:18-22.
- 2017 Zeininger, A., **Shapiro, L.J.** and Raichlen D. Ontogenetic changes in limb postures and their impact on effective limb length in baboons (*Papio cynocephalus*). *American Journal of Physical Anthropology*. 163:231-241
- 2016 **Shapiro, L.J.**, Kemp, A.D., and Young, J.W. Effects of substrate size and orientation on quadrupedal gait kinematics in mouse lemurs (*Microcebus murinus*). *Journal of Experimental Zoology*. 325A:329-343.
- 2014 **Shapiro, L.J.**, Cole, W.G., Young, J.W., Raichlen, D.A., Robinson, S.R., and Adolph, K.E. Human quadrupeds, primate quadrupedalism, and Uner Tan Syndrome. PLOS ONE 9 (7): e101758. doi:10.1371/journal.pone.0101758
- 2014 **Shapiro, L.J.**, Young, J.W. and Vandeberg, J.L. Body size and the small branch niche: Using marsupial ontogeny to model primate locomotor evolution. *Journal of Human Evolution*. 68:14-31.
- 2013 Raichlen, D.A., Pontzer, H., and **Shapiro, L.J.** A new look at the Dynamic Similarity Hypothesis: the importance of swing phase. *Biology Open*. 2:1032-1036.
- 2013 Russo, G.A. and **Shapiro, L.J.** Reevaluation of the lumbosacral region of *Oreopithecus bambolii*. *Journal of Human Evolution*. 65:253-265

- 2012 **Shapiro, L.J.**, and Young, J.W. Kinematics of quadrupedal locomotion in sugar gliders (*Petaurus breviceps*): Effects of age and substrate size. *Journal of Experimental Biology*. 215:480-496.
- 2011 Russo, G.A. and **Shapiro, L.J.** Morphological correlates of tail length in the catarrhine sacrum. *Journal of Human Evolution*. 61:223-232.
- 2010 **Shapiro, L.J.**, and Young, J.W. Is primate-like quadrupedalism necessary for fine-branch locomotion? A test using sugar gliders (*Petaurus breviceps*). *Journal of Human Evolution*. 58: 309-319.
- 2009 Raichlen, D., Pontzer H., **Shapiro, L.J.** and Sockol, M. Understanding hind limb weight support in chimpanzees with implications for the evolution of primate locomotion. *American Journal of Physical Anthropology*. 138: 395-402.
- 2007 Whitcome K.K, **Shapiro L.J..J**, and Lieberman D.E. Fetal load and the evolution of lumbar lordosis in bipedal hominins. *Nature*. 450:1075-1078.
- 2007 **Shapiro, L.J.** and Raichlen, D. Primate gaits and arboreal stability: A Response to Cartmill et al. *American Journal of Physical Anthropology*.133:825-827.
- 2007 **Shapiro L.J.** Morphological and functional differentiation in the lumbar spine of lorises and galagids. *American Journal of Primatology*.39:86-102.
- 2006 Godfrey, L.R.,Jungers, W.L., Burney, D.A., Vasey, N, Ramilisonina, Wheeler, W., Lemelin, P., **Shapiro, L.J.**, Schwartz, G.T., King, S.J., Ramarolahy, M.F., Raharivony, L.L., Randria, G.F.N. New discoveries of skeletal elements of *Hadropithecus stenognathus* from Andrahomana Cave, southeastern Madagascar. *Journal of Human Evolution*. 51:395-410.
- 2006 **Shapiro L.J.**and Raichlen D. Limb proportions and the ontogeny of quadrupedal walking in infant baboons (*Papio cynocephalus*). *Journal of Zoology*. 269:191-203.
- 2005 **Shapiro L.J.**, Seiffert C, Godfrey L, Jungers W, Simons E, and Randria G. Morphometric analysis of lumbar vertebrae in extinct Malagasy strepsirrhines. *American Journal of Physical Anthropology*. 128:823-839.
- 2005 **Shapiro L.J.**, and Raichlen D. Lateral sequence walking in infant *Papio cynocephalus*: Implications for the evolution of diagonal sequence walking in primates. *American Journal of Physical Anthropology*. 126:205-213.
- 2002 **Shapiro L.J.**, and Simons C. Functional aspects of strepsirrhine lumbar vertebral bodies and spinous processes. *Journal of Human Evolution*. 42:753-783.

- 2001 **Shapiro L.J.**, Demes B, and Cooper J. Lateral bending of the lumbar spine during quadrupedalism in strepsirrhines. *Journal of Human Evolution*. 40:231-259.
- 1998 Johnson S, and **Shapiro L.J.** Positional behavior and vertebral morphology in atelines and cebines. *American Journal of Physical Anthropology* 105(3):333-354.
- 1997 **Shapiro L.J.**, Anapol F, and Jungers W. Interlimb coordination, gait, and neural control during quadrupedalism in chimpanzees. *American Journal of Physical Anthropology* 102(2):177-186.
- 1995 **Shapiro, L.J.** Functional morphology of indrid lumbar vertebrae. *American Journal of Physical Anthropology* 98(3):323-342.
- 1994 **Shapiro L.J.**, and Jungers W. Electromyography of back muscles during quadrupedal and bipedal walking in primates. *American Journal of Physical Anthropology* 93:491-504.
- 1994 Duncan A, Kappelman J, and **Shapiro L.J.** Metatarsophalangeal joint function and positional behavior in *Australopithecus afarensis*. *American Journal of Physical Anthropology* 93(1):67-81.
- 1993 **Shapiro L.J.** Evaluation of "unique" aspects of human vertebral bodies and pedicles with a consideration of *Australopithecus africanus*. *Journal of Human Evolution* 25(6): 433-470.
- 1988 **Shapiro L.J.**, and Jungers W. Back muscle function during bipedal walking in chimpanzee and gibbon: implications for the evolution of human locomotion. *American Journal of Physical Anthropology* 77(2):201-212.

#### **Refereed journal articles as member of the Tabula Microcebus Consortium:**

- 2022 Ming, J., Lin, Z., Zhao, J., Wan, X., Tabula *Microcebus* Consortium [including **Shapiro, L.J.**], Yang, C., Wu, A. R. FIRM: Flexible integration of single-cell RNA-sequencing data for large-scale multi-tissue cell atlas datasets. Briefings in Bioinformatics, 23 (5), 1-14. DOI: 10.1093/bib/bbac167
- 2022 Zhao, J., Wang, G., Ming, J., Lin, Z., Wang, Y., Tabula *Microcebus* Consortium [including **Shapiro, L.J.**], Wu, A. R., and Yang, C. Adversarial domain translation networks for integrating large-scale atlas-level single-cell datasets. *Nature Computational Science*. 2: 317-330.

#### **Refereed Book Chapters and Encyclopedia Entries:**

- 2019 **Shapiro, L.J.** and Russo, G.A. Vertebral morphology in hominoids II- The lumbar spine. In: Been E, Gómez-Olivencia A, and Kramer PA.(Eds). *Spinal Evolution: Morphology, Function, and Pathology of the Spine in Hominoid Evolution*. New York: Springer. pp. 51-72.
- 2017 **Shapiro, L.J.** and Young, J.W. Biomechanics of primate locomotion. *International Encyclopedia of Primatology*, A. Fuentes, Ed. John Wiley and Sons.
- 2017 **Shapiro, L.J.** and Young, J.W. Quadrupedalism. *International Encyclopedia of Primatology*, A. Fuentes, Ed. John Wiley and Sons.
- 2017 **Shapiro, L.J.** and Young, J.W. Quadrupedalism. *International Encyclopedia of Primatology*, A. Fuentes, Ed. John Wiley and Sons.
- 2011 **Shapiro, L.J.**, Young, J.W. and Souther, A. Quadrupedal locomotion of *Saimiri boliviensis*: A comparison of field and lab-based kinematic data. In D'Août, K. and E.E. Vereecke, Eds. *Primate Locomotion: Linking Field and Laboratory Research. Developments in Primatology : Progress and Prospects*. Springer, pp. 335-356.
- 1993 **Shapiro L.J.** Functional morphology of the vertebral column in primates. In (D. Gebo, ed.): *Postcranial Adaptation in Nonhuman Primates*. Northern Illinois University Press, pp.121-149.

### **Book Reviews:**

- 2015 **Shapiro L.J.** Book review of *Primate Comparative Anatomy*, D.L. Gebo (2014). Johns Hopkins University Press. *J. Mammalogy* doi: 10.1093/jmammal/gyv086.
- 1999 **Shapiro L.J.** Book Review of *Primate Locomotion: Recent Advances*, E. Strasser, J. Fleagle, A. Rosenberger, and H. McHenry, (eds). (1998). New York: Plenum Press. *American Journal of Physical Anthropology* 109:561-563
- 1992 **Shapiro L.J.** Book Review of: *Gravity, Posture and Locomotion in Primates*, F.K. Jouffroy, M.H. Stack, and C. Niemitz, (eds) (1990), Il Sedicesimo: Firenze. *American Journal of Primatology*, 26:225-228.

### **Digital publications**

- 1998 Kappelman J, Duncan A, Scott R, **Shapiro L.J.**, Bramblett C, Ryan T, Seiffert E, and Weiner G. Lab 2: Levers and Limbs: Introduction to Primate Functional Morphology. In J Kappelman (ed): *Virtual Laboratories in Physical Anthropology* on CD ROM. Wadsworth Publishing Co.
- 1998 Kappelman J, Duncan A, Scott R, **Shapiro L.J.**, Bramblett C, Ryan T, Seiffert E, and

Weiner G. Lab 3: Primates in Motion. In J Kappelman (ed): Virtual Laboratories in Physical Anthropology on CD ROM. Wadsworth Publishing Co.

1998 Kappelman J, Kirk C, Seiffert E, **Shapiro L.J.**, Bramblett C, Ryan T, Scott R, and Weiner G. Lab 4: Primate Diets and Feeding Behaviors. In J Kappelman (ed): Virtual Laboratories in Physical Anthropology on CD ROM. Wadsworth Publishing Co.

### **Media coverage of research**

2018 Interviewed by NPR on spinal posture and global health for Morning Edition, <https://www.npr.org/sections/health-shots/2018/02/26/587735283/lost-art-of-bending-over-how-other-cultures-spare-their-spines>

2018 <https://arstechnica.com/science/2018/02/science-after-hours-barneys-aquatic-traits-and-how-pregnant-women-stay-upright/>

2014 Online coverage of Shapiro et al., Human quadrupeds, primate quadrupedalism, and Uner Tan Syndrome. PLoS ONE 9 (7): e101758 including Washington Post, Science, Nature World News, LiveScience, PhysOrg, Heritage Daily, International Business Times, Science 2.0, Daily Mail, Fox News, Huffington Post, IFL Science, other national and international news media affiliates as well as UT-related coverage (Daily Texan, Alcalde).

2013 Online coverage of Russo GA and **Shapiro L.J.J.**, Reevaluation of the lumbosacral region of *Oreopithecus bambolii* (Journal of Human Evolution 65 [3], 253-265), including Huffington Post Science, Yahoo News, NBC News, Science Daily, LiveScience, Sciences and Avenir, Discovery News, Nature World News, Heritage Daily, Sci-News and other national and international news media affiliates.

2009 Extensive media coverage as recipient of 2009 “Ig Nobel” prize in physics (award sponsored by the Annals of Improbable Research).

2008 Research featured on UT Austin research websites  
<http://www.utexas.edu/research/features/story.php?item=2838>  
<http://www.utexas.edu/opa/blogs/research/2008/12/16/getting-started/>

2007 Extensive media coverage of Whitcome K.K, **Shapiro L.J.J.**, and Lieberman D.E. Fetal load and the evolution of lumbar lordosis in bipedal hominins. *Nature*. 450:1075-1078, including NPR/Morning Edition, The New York Times, Associated Press, and numerous other national and international news media affiliates.

2001 My research on primate anatomy and locomotion was highlighted on a PBS documentary entitled "The Great Transformations", one of a 7 part series entitled "Evolution". A

Powderhouse Productions film for WGBH-TV and Clear Blue Sky Productions .  
(Airdate: 9/25/01).

2002 My research was highlighted on the UT Austin website, Support UT: “Monkey Business Adds to Evolutionary Science”  
([http://www.utexas.edu/supportut/news\\_pub/ts\\_monkeys.html](http://www.utexas.edu/supportut/news_pub/ts_monkeys.html))

2006 Interviewed and quoted for article in news@Nature.com  
(<http://www.nature.com/news/2006/060717/full/060717-17.html>)

**Scholarly Presentations (listed as published abstracts where available):**

(2024) **Shapiro LJ**, Godfrey LR, Wall CE, and Wunderlich RE. .Introduction to the symposium: The contributions and legacy of Bill Jungers to the field of biological anthropology. (part of invited AABA symposium “*William L. Jungers, a giant in the fields of paleoanthropology, size and scaling, and functional morphology: A commemorative tribute*”, Co-organizers: **Shapiro LJ**, Godfrey LR, Wall CE, and Wunderlich RE) Annual meeting, American Association of Biological Anthropologists.

(2024) Myers LC, Janisch J, Schapker NM, Cundari A, Husain A, Silva A, Young JW and **Shapiro LJ**. Semi-prehensile tail use in wild cercopithecoid monkeys. Annual meeting, American Association of Biological Anthropologists.

(2024) Rodwell B, **Shapiro LJ**, and Kirk, EC. Sticking its neck out, the first known cervical vertebrae of *Shoshonius cooperi*: implications for tarsier, anthropoid, and haplorhine relationships. Annual meeting, American Association of Biological Anthropologists.,

(2024) Schapker N, Janisch J, Myers L, Cole WG, Matar A, **Shapiro LJ** and Young JW. Investigating risk avoidance during arboreal locomotion in wild primates. Annual meeting, American Association of Biological Anthropologists.

(2024) Schapker N, Janisch J, Myers L, Phelps T, **Shapiro LJ** and Young JW. Effects of substrate height on arboreal locomotion in wild lemurs. Annual meeting, Society for Integrative and Compare Biology

2023 Janisch J, Myers L, Schapker, N, **Shapiro LJ**, and Young JW. Pump and sway: wild primates use compliant supports as a tool to augment leaping in the canopy. Annual Behaviour conference, Association for the Study of Animal Behaviour.

2023 **Shapiro LJ**, Myers L, Janisch J, Young JW, Schapker N, Barry I, Phelps T, Hieronymus TL, and Young JW. Gait kinematics in response to substrate diameter and orientation in wild cercopithecoids. Annual meeting, American Association of Biological



Anthropologists. *American Journal of Biological Anthropology* Vol. 180. Supplement S75:161.

- 2023 Janisch J, McNamara A, Dunham NT, Phelps T, Myers L, Schapker N, Willard T, **Shapiro LJ**, and Young JW. Influence of substrate variation on limb joint kinematics in wild primates. Annual meeting, American Association of Biological Anthropologists. *American Journal of Biological Anthropology* Vol. 180. Supplement S75:84.
- 2023 Schapker N, Hottensmith A, Janisch J, Myers L, Phelps T, Barry I, **Shapiro LJ** and Young JW. Effects of height in the canopy on gait mechanics in wild lemurs. Annual meeting, American Association of Biological Anthropologists. *American Journal of Biological Anthropology* Vol. 180. Supplement S75:156-157.
- 2023 Janisch J, Young JW, Schapker N, , Dunham NT, McNamara A, Myers L, **Shapiro LJ**, and Phelps T. Substrate-related variation in limb joint kinematics in wild primates. Annual meeting, Society for Integrative and Compare Biology, *Integrative and Comparative Biology*. 63:Supplement 1: S219
- 2022 Schapker N, Hottensmith A, Janisch J, Myers L, Phelps T, Barry I, **Shapiro LJ** and Young JW Effects of height in the canopy on gait mechanics in wild lemurs. Annual meeting, Midwest Primate Interest Group.
- 2022 McNamara A, Dunham NT, \*Stanton W, Young JW, and **Shapiro LJ**. Catching their strides: A comparative analysis of wild platyrrhine walking kinematics on naturally variable substrates. Annual meeting, American Association of Biological Anthropologists. *American Journal of Biological Anthropology* Vol. 177. Supplement S73:121-122.
- 2022 Myers LC, McNamara A, Dunham NT, Phelps T, Young JW, Hieronymus TL, and **Shapiro LJ**. Primate gait diversity: Comparing quadrupedal kinematics of lemurids in free-ranging and laboratory environments. Annual meeting, American Association of Biological Anthropologists. *American Journal of Biological Anthropology* Vol. 177. Supplement S73:131.
- 2022 Kemp A, Hendi H, McNamara A, Dunham NT, Hieronymus TL, Phelps T, **Shapiro LJ**, and Young JW. Differential use of arboreal substrates during leaping in free-ranging primates and squirrels. Annual meeting, American Association of Biological Anthropologists. *American Journal of Biological Anthropology* Vol. 177. Supplement S73:96.
- 2022 Janisch J, McNamara A, Dunham NT, Phelps T, **Shapiro LJ**, and Young JW. Substrate-related variation in limb joint kinematics in wild primates. Annual meeting, American Association of Biological Anthropologists. *American Journal of Biological Anthropology* Vol. 177. Supplement S73:89-90.

- 2022 Rettke S., Di Fiore A., Fernandez-Duque, E. and **Shapiro LJ**. Comparing primate body mass datasets: Cautionary implications for evaluating drivers of sexual size dimorphism in platyrrhines. Annual meeting, American Association of Biological Anthropologists. *American Journal of Biological Anthropology* Vol. 177. Supplement S73:152.
- 2021 Young, J.W., Chadwell, B.A., Dunham, N.T., McNamara, A., Phelps, T., Hieronymus, T.L, and **Shapiro, LJ**. The stabilizing function of the tail during arboreal quadrupedalism. Annual meeting, Society for Integrative and Compare Biology, *Integrative and Comparative Biology*
- 2021 Stanton, W., Bezanson, M., **Shapiro, L.J.**, McNamara,, A. Where does positional behavior stand?: The impact of standardizing variables. Annual meeting, American Association of Physical Anthropologists. *American Journal of Physical Anthropology* Vol. 174. Supplement S71:99-100
- 2020 McNamara, A.; Dunham, N.T.; Young J.W., Stanton, D.W.; Wood, J. and **Shapiro, LJ** Comparative platyrrhine walking kinematics across natural, discontinuous substrates. Annual meeting, Society for Integrative and Compare Biology, *Integrative and Comparative Biology*.
- 2020 Stanton DW, McNamara A, Dunham NT, Young JW, **Shapiro LJ** The relationship between bridging and quadrupedal gait in *Lagothrix lagotricha*. Undergraduate Research Forum, UT Austin .
- 2019 Hieronymous, T.L, **Shapiro, LJ**, Dunham, N.T., McNamara A., and Young, J.W. Assessing the determinants of primate gait kinematics in an ecological and phylogenetic framework, Part I: Phylogenetic methods for biomechanics. Annual meeting, American Association of Physical Anthropologists. *American Journal of Physical Anthropology* Vol. 168. Supplement S68:103.
- 2019 **Shapiro, L.J.**, Hieronymous, T.L., Dunham, N.T., McNamara A., and Young, J.W. Assessing the determinants of primate gait kinematics in an ecological and phylogenetic framework, Part II: Platyrrhine quadrupedalism. Annual meeting, American Association of Physical Anthropologists. *American Journal of Physical Anthropology* Vol. 168. Supplement S68:226
- 2019 Dunham N.T., McNamara A, Demes B., Johnson, L.E., Daniel Schmitt D., **Shapiro, LJ**, Young, J.W. Arboreal primate gait kinematics: Do wild data validate laboratory inferences? Annual meeting, American Association of Physical Anthropologists. *American Journal of Physical Anthropology* Vol. 168. Supplement S68:64.
- 2019 McNamara, A., Dunham, N.T., Young J.W., and **Shapiro, LJ** Wild platyrrhine quadrupedal kinematics on multiple and inconsistent substrates. Annual meeting, American Association of Physical Anthropologists. *American Journal of Physical Anthropology* Vol. 168. Supplement S68:162.
- 2019 Young J.W., Dunham, N.T., McNamara, A., and **Shapiro LJ** Influence of substrate compliance on wild primate gait kinematics Annual meeting, American Association of

- Physical Anthropologists. *American Journal of Physical Anthropology* Vol. 168. Supplement S68:277-278.
- 2019 Dunham, N.T., McNamara, A., **Shapiro, LJ**, Hieronymous, T.L., and Young J.W. Locomotor kinematics of free-ranging primates in response to changes in substrate diameter and orientation. Annual meeting, Society for Integrative and Compare Biology, *Integrative and Comparative Biology*, Volume 59, Supplement 1: e59.
- 2018 McNamara, A., Dunham, N.T., Young J.W., and **Shapiro, LJ** Meeting a challenge: Quadrupedal gait kinematics and substrate disruptions in wild *Saimiri sciureus*. American Society of Primatologists.
- 2018 Dunham, N.T., McNamara, A., **Shapiro, LJ**, Phelps, T. and Young J.W. A user's guide for the quantitative analysis of substrate characteristics and locomotor kinematics in free-ranging primates. International Primatological Society Congress, Nairobi, Kenya.
- 2018 **Shapiro, LJ** Opening remarks. Symposium: The necessity of experimental research in primate functional morphology: an homage to the Stony Brook Primate Locomotion Laboratory. American Association of Physical Anthropology.
- 2018 Dunham, N.T., McNamara, A., **Shapiro, LJ** and Young J.W. Gaits gone wild: spatiotemporal kinematics of tree squirrels (*Sciurus carolinensis*) in laboratory and free-ranging environments. Annual meeting, American Association of Physical Anthropologists. *American Journal of Physical Anthropology* Vol. 165. Supplement S66:73
- 2018 McNamara, A., Dunham, N.T., **Shapiro, LJ** and Young J.W. New techniques for the quantitative analysis of locomotor kinematics in free-ranging primates. Annual meeting, American Association of Physical Anthropologists. *American Journal of Physical Anthropology* Vol. 165. Supplement S66:173
- 2018 Heard-Booth, A.N., Sanders, W.J. and **Shapiro LJ** Morphometric Analysis of the Stw-431 (*Australopithecus africanus*) lumbar vertebral series. Annual meeting, American Association of Physical Anthropologists. *American Journal of Physical Anthropology* Vol. 165. Supplement S66:115
- 2017 **Shapiro, LJ** and Kemp, A.D. Intraspecific variation in strepsirrhine vertebral morphology. Texas Association of Biological Anthropologists. Annual meeting, University of Texas at San Antonio.
- 2017 McNamara, A., Dunham, N.T., **Shapiro, LJ** and Young J.W. Introducing methods for quantifying quadrupedal kinematics in free-ranging primates. Texas Association of Biological Anthropologists. Annual meeting, University of Texas at San Antonio.
- 2017 **Shapiro, LJ**, Heard-Booth, A.N. and Young, J.W. Quadrupedal locomotion in the "real" world: how do small mammals adjust limb kinematics in response to substrate variation? IEEE International Workshop on Advanced Robotics and its Social Impacts, Austin, TX

- 2017 **Shapiro, LJ** and Kemp A.D. Intraspecific variation in hominoid vertebral morphology: effects of column position and locomotor adaptation. (Invited paper for 2017 AAPA symposium: The axial skeleton: morphology, function, and pathology of the spine and thorax in hominoid evolution). *American Journal of Physical Anthropology* Vol. 162. Supplement S64:356.
- 2016 **Shapiro, LJ** and Kemp, A.D. Developmental and biomechanical perspectives on vertebral intraspecific variation in hominoids. Texas Association of Biological Anthropologists. Annual meeting, University of Texas at Austin.
- 2016 Kemp AD, **Shapiro, LJ**. Ape locomotor behavior and constraints on intraspecific variation in vertebral morphology. New Directions in Anthropology, UT Austin.
- 2016 Heard-Booth, A.N. and **Shapiro, LJ**. The effects of speed and foot shape on foot loading in an ontogenetic and adult human sample. CARE (Clinically Applied Rehabilitation Engineering) First Annual Research Day, University of Texas at Austin.
- 2016 **Shapiro, LJ**, Chadwell, B.A., and Young, J.W. Tail kinematics during asymmetrical gaits in mouse lemurs (*Microcebus murinus*). *American Journal of Physical Anthropology*. Vol. 159. Supplement S62: 288-289.
- 2016 Kemp, A.D. and **Shapiro, LJ** Intraspecific variation in hominoid lumbar vertebral morphology. *American Journal of Physical Anthropology*. Vol. 159. Supplement S62:189.
- 2014 **Shapiro, LJ**, Kemp, A.D., and Young, J.W. Kinematic adjustments to substrate size and orientation during asymmetrical gaits in mouse lemurs (*Microcebus murinus*) *American Journal of Physical Anthropology*. Vol. 153. Supplement 58:237.
- 2013 Barr, W.A., Nachman, B., and **Shapiro, LJ** The academic phylogeny of Physical Anthropology. Annual meeting, Texas Association of Biological Anthropologists, Austin, TX.
- 2013 Sayre, M.K. and **Shapiro LJ** The effect of forelimb mass distribution on the function of arm swinging during human bipedalism. Undergraduate Research Symposium, Annual meeting, American Association of Physical Anthropologists.
- 2013 Chadwell, B.A., Young, J.W., and **Shapiro, LJ** A Comparative look at tail movement during narrow branch locomotion. Annual meeting, *Society for Integrative and Comparative Biology*.
- 2012 Russo, G.A. and **Shapiro, LJ** Reevaluation of the lumbosacral region of *Oreopithecus*

- bambolii*. Annual meeting, Texas Association of Biological Anthropologists, Baylor College of Dentistry, Dallas, Texas.
- 2012 **Shapiro, LJ**, Young, J.W. and Vandeberg, J.L. The origin and evolution of primate quadrupedalism: insights from marsupials. *American Journal of Physical Anthropology*. Vol. 147. Supplement 54:268.
- 2012 Heard-Booth, A.N., **Shapiro, LJ** and Young, J.W. Limb excursion patterns of an arboreal marsupial (*Petaurus breviceps*) vary with substrate size and inclination. *American Journal of Physical Anthropology*. Vol. 147. Supplement 54:162-163.
- 2011 Heard-Booth, A.N., **Shapiro, LJ** and Young, J.W. Effects of substrate size and inclination on the limb excursion patterns of an arboreal marsupial (*Petaurus breviceps*). Annual meeting, Texas Association of Biological Anthropologists, Texas State University, San Marcos, Texas.
- 2011 Young, J.W., **Shapiro, LJ**, Souther, A. and Sousaris, N. Patterns of gait selection in free-ranging primates in Manu National Park, Peru. Annual meeting, Midwest Primate Interest Group, Kent State University.
- 2011 **Shapiro, LJ**, and Young, J.W. Stride length, stride frequency and ontogeny: are arboreal marsupials dynamically similar to primates? *American Journal of Physical Anthropology*. Vol. 144. Supplement 52:271.
- 2010 **Shapiro, LJ**, and Young, J.W. Using locomotor ontogeny to understand the interaction between small body size and arboreal locomotion: a case study using sugar gliders (*Petaurus breviceps*). (Invited paper for AAPA symposium), *American Journal of Physical Anthropology*. Supplement 50:271-272.
- 2010 **Shapiro, LJ**, and Young, J.W. Making great strides: a marsupial perspective on primate quadrupedalism. Annual meeting, Texas Association of Biological Anthropologists, Baylor University, Waco, Texas.
- 2010 Russo, G.A. and **Shapiro, LJ** Comparative sacrocaudal anatomy in catarrhines. *American Journal of Physical Anthropology*. Supplement 50:255-256.
- 2009 Russo, G.A. and **Shapiro, LJ** Morphological correlates of tail length and mobility in the primate sacrum. Annual meeting, Texas Association of Biological Anthropologists.
- 2009 **Shapiro LJ** and Young J.W. The effects of substrate size on quadrupedal locomotion in a small-bodied arboreal marsupial, *Petaurus breviceps* (sugar glider). *American Journal of Physical Anthropology*. Supplement 48:236.
- 2009 Russo, G.A. and **Shapiro, LJ** Trabecular Morphology of the sacrum in humans and other primates. Annual conference, Anthropology Graduate Students

Association, University of Texas at Austin.

- 2009 Zeininger A., **Shapiro LJ**, and Raichlen D.A. The effects of digitigrade cheiridial postures on speed and gait in infant baboons. *American Journal of Physical Anthropology*. Supplement 48:279.
- 2009 Heard, A.N. , **Shapiro LJ** and Young, J.W. The effects of substrate diameter on the locomotor kinematics of an arboreal marsupial (*Petaurus breviceps*): implications for understanding primate quadrupedalism. Annual meeting, Anthropology Graduate Students Association, University of Texas at Austin, April 17-18, 2009.
- 2008 **Shapiro, LJ**, Zeininger, A., and VandeBerg, J.L. The influence of body size and substrate size on quadrupedalism in *Monodelphis domestica*. *American Journal of Physical Anthropology* Supplement 46:190-191.
- 2008 Zeininger, A., **Shapiro, LJ**, and Raichlen, D.A. The effects of digitigrade cheiridial postures on speed and gait in infant baboons. Society for Integrative and Comparative Biology, 2008 Annual Meeting.
- 2008 Whitcome, KW, **Shapiro LJ**, and Lieberman, D.E. Fetal load adaptations in the axial skeleton of early bipeds: *Australopithecus africanus*. Society for Integrative and Comparative Biology, 2008 Annual Meeting.
- 2007 **Shapiro, LJ**, Zeininger, A., and VandeBerg, J.L. Small body size and the evolution of primate quadrupedalism. Texas Biological Anthropologists Consortium, First Annual Conference, University of Texas at Austin.
- 2007 Raichlen, DA, and **Shapiro LJ**. The evolution of mammalian locomotor biomechanics: adaptations or spandrels? 8th International Congress of Vertebrate Morphology, Paris.
- 2007 **Shapiro, LJ** and Raichlen, DA. Center of mass position, quadrupedalism, and stability: Where do primates fall? (Invited paper for AAPA symposium) *American Journal of Physical Anthropology* Supplement 44:215.
- 2007 Zeininger, A., **Shapiro, LJ**, and Raichlen, D. Ontogeny of digitigrade hand and foot postures in infant baboons (*Papio cynocephalus*). *American Journal of Physical Anthropology* Supplement 44:255.
- 2005 **Shapiro, LJ** Morphological and functional differentiation in the lumbar spine of lorisooids (Invited paper for AAPA symposium). *American Journal of Physical Anthropology* Supplement 40:188-189
- 2005 Godfrey, L.R., Jungers, W.L., Schwartz, G.T., Lemelin, P., **Shapiro, LJ**, Burney, D.A., Wheeler, W., Cuzzo, F. and Vasey, N. New discoveries of *Hadropithecus stenognathus*, subfossil lemur of Madagascar. *American Journal of Physical*

*Anthropology* Supplement 40:107.

- 2003 **Shapiro, LJ**, and Raichlen, D. Locomotor development and the uniqueness of primate quadrupedalism. *American Journal of Physical Anthropology*. Supplement 36:189-190.
- 2002 Raichlen, D and **Shapiro, LJ** Swing phase and the use of diagonal sequence gait in primates. *American Journal of Physical Anthropology*. Supplement 34:128-129.
- 2001: Shapiro, L, and Raichlen, D. Ontogeny of gait in *Papio cynocephalus*. *American Journal of Physical Anthropology*. Supplement 32:135.
- 2000: **Shapiro LJ**, Demes B, and Cooper J. The role of lateral bending of the spine in prosimian quadrupedalism. *American Journal of Physical Anthropology*. Supplement 30:279.
- 1999: **Shapiro LJ**, and Cooper J. Utilization of video and motion analysis software in the study of primate locomotor kinematics. *American Journal of Primatology*. 49:100-101.
- 1998: Simons, C and **Shapiro LJ**. Lumbar form and function in subfossil lemurs. XVII Congress of the International Primatological Society, University of Antananarivo, Madagascar.
- 1998: **Shapiro LJ**, and Demes B. Size, speed and kinematics in *Loris* and *Nycticebus*. *American Journal of Physical Anthropology* Supplement 26:200-201.
- 1998: Simons, C and **Shapiro LJ**. Functional variation in the vertebral morphology of prosimians. *American Journal of Physical Anthropology* Supplement 26:202.
- 1997: Johnson S, and **Shapiro LJ**. Positional behavior and vertebral morphology in atelines and cebines. *American Journal of Physical Anthropology* Supplement 24:137.
- 1996 **Shapiro LJ**, and Demes B. Spinal kinematics in lorids and cheirogaleids. *American Journal of Physical Anthropology* Supplement 22:213.
- 1996 Ryan T, Scott R, Duncan A, Kappelman J, **Shapiro LJ**, Grant S, Lewis K, and Stearman R. Finite element analysis using a 3D laser scanner. *American Journal of Physical Anthropology* Supplement 22:206.
- 1995 Kappelman J, Bramblett C, and **Shapiro LJ**. A laboratory curriculum for introductory physical anthropology on CD ROM. *American Journal of Physical Anthropology* Supplement 20:122-123.
- 1994 **Shapiro LJ**, Jungers W, Godfrey L, and Simons, E. Vertebral morphology of extinct lemurs. *American Journal of Physical Anthropology* Supplement 18:179-180.
- 1993 **Shapiro LJ**. Functional morphology of indrid vertebrae. *American Journal of Physical Anthropology* Supplement 16:178.

- 1992 **Shapiro LJ**. Evaluation of "unique" functional characteristics of human lumbar vertebrae. *American Journal of Physical Anthropology* Supplement 14:149-150.
- 1992 Duncan A, Kappelman J, and **Shapiro LJ**. Functional morphology of the hominoid metatarsophalangeal joint with reference to Australopithecus afarensis. *American Journal of Physical Anthropology* 88:269.
- 1991 **Shapiro LJ**. Quadrupedalism and back muscle function in hominoids. *American Journal of Physical Anthropology* Supplement 12:160.
- 1990 **Shapiro LJ**. Vertebral morphology in the Hominoidea. *American Journal of Physical Anthropology* 81(2):294.
- 1989 **Shapiro LJ**, and Jungers W. Back muscle function during suspensory behaviors in chimpanzee, orangutan and gibbon. *American Journal of Physical Anthropology* 78(2):300.
- 1987 **Shapiro LJ**, Jungers W, and Stern J. Function of back and trunk muscles during bipedal walking in chimpanzee and gibbon. *American Journal of Physical Anthropology*. 72(2):253.
- 1984 Wilkinson R, Hodges D, **Shapiro LJ**, Smith D, and Ziac D. Chronic stress in a "healthy" prehistoric population. 24th Annual Conference, Northeastern Anthropological Association. *Abstracts with program*: p.52.

### **External Research Grants**

- 2020-2024 *Principal Investigator*, National Science Foundation. Collaborative Research: Ecological Influences on Locomotor Performance in Free-Ranging Primates: An Integrative Phylogenetic Investigation. (NEOMED collaborators: Jesse Young, PI; Tobin Hieronymus, Co-PI) (\$150,395 to UT Austin, \$430,810 total award)
- 2016-2020 *Principal Investigator*, National Science Foundation. Collaborative Research: Kinematics of quadrupedal locomotion in free-ranging primates: a comparative functional and phylogenetic analysis. (NEOMED collaborators: Jesse Young, PI; Tobin Hieronymus, Co-PI) (\$134,120 to UT Austin, \$393,113 total award)
- 2014 *Principal Investigator*, NSF Doctoral Dissertation Grant: Morphological and Functional Correlates of Variation in the Human Longitudinal Arch. (A. Heard-Booth, Co-PI)
- 2013 *Co-Principal Investigator*, Leakey Foundation. Morphological and Functional Correlates of Variation in the Human Longitudinal Arch. (PI/Dissertation research: A. Heard-Booth).



- 2012 *Principal Investigator*, National Science Foundation NSF Doctoral Dissertation Grant: The Functional Morphology of Mammalian Sacra and Caudal Vertebrae: Implications for tail loss and positional behaviors in extinct primates. (G. Russo, Co-PI).
- 2011 *Co-Principal Investigator*, Leakey Foundation The Functional Morphology of Mammalian Sacra and Caudal Vertebrae: Implications for tail loss and positional behaviors in extinct primates. (PI/ Dissertation research: G. Russo).
- 2010 *Principal Investigator*, National Science Foundation. NSF Doctoral Dissertation Grant: Ontogeny of Bipedalism: Pedal Mechanics and Trabecular Bone Morphology. (A. Zeininger, Co-PI)
- 2010 *Co-Principal Investigator*, Leakey Foundation: Ontogeny of Bipedalism: Pedal Mechanics and Trabecular Bone Morphology. (PI/Dissertation research:A. Zeininger)
- 2007-2011 *Principal Investigator*, National Science Foundation: Locomotor ontogeny in *Microcebus murinus*, *Petaurus breviceps* and *Monodelphis domestica*: The influence of very small body size on the evolution of primate quadrupedal locomotion. (E.C. Kirk, Co-PI) (\$226, 192).
- 2008 *Principal Investigator*, National Science Foundation REU Award (Research Experience for Undergraduates): Locomotor ontogeny in *Microcebus murinus*, *Petaurus breviceps* and *Monodelphis domestica*: The influence of very small body size on the evolution of primate quadrupedal locomotion. (\$3600).
- 2006 *Principal Investigator* National Science Foundation. NSF Doctoral Dissertation Grant: Ecological and Morphological Correlates of Infraorbital Foramen Size and its Paleoecological Implications. (Magdalena Muchlinski, Co-PI)
- 2004 *Principal Investigator* National Science Foundation. NSF Doctoral Dissertation Grant: Bipedal Obstetric Load and the Evolution of Human Lumbopelvic Sexual Dimorphism. (K. Whitcome, Co-PI)
- 2003 *Principal Investigator* National Science Foundation. NSF Doctoral Dissertation Grant: The Relationship Between Limb Shape and Locomotor Mechanics and Energetics. (D. Raichlen, Co-PI)
- 2003 *Co-Principal Investigator*, Leakey Foundation. Bipedal Obstetric Load and the Evolution of Human Lumbopelvic Sexual Dimorphism. (PI/Dissertation research: K. Whitcome).
- 2002 *Co-Principal Investigator*, Leakey Foundation. The Relationship Between Limb Shape and Locomotor Mechanics and Energetics. (PI/Dissertation research: D. Raichlen)
- 2001 *Principal Investigator*, Leakey Foundation: Ontogeny of Primate Quadrupedal

Locomotion and the Evolution of Primate Gait. (\$12, 304).

1997-1999 *Principal Investigator* National Science Foundation (Co-funded by Physical Anthropology and Ecological and Evolutionary Physiology): Functional Morphology and Kinematics of the Spine in Prosimians. (\$50, 562).

1998 *Principal Investigator* National Science Foundation REU Award (Research Experience for Undergraduates: Functional Morphology and Kinematics of the Spine in Prosimians. (\$4000).

1989: *Co-Principal Investigator*, National Science Foundation. Doctoral Dissertation Improvement Grant (Anthropology): Functional Morphology of the Hominoid Back. (W. Jungers, PI)

### **Other external grants**

2023 American Association of Biological Anthropologists. Funding for invited symposium at 2024 Annual meeting, American Association of Biological Anthropologists. “*William L. Jungers, a giant in the fields of paleoanthropology, size and scaling, and functional morphology: A commemorative tribute.*” (Co-organizers: **Shapiro LJ**, Godfrey LR, Wall CE, and Wunderlich RE) \$2000

2023 Lemur Action Fund. New Research in Madagascar: Honoring the legacy of the late William Jungers. Funding for invited symposium at 2024 Annual meeting, American Association of Biological Anthropologists. “*William L. Jungers, a giant in the fields of paleoanthropology, size and scaling, and functional morphology: A commemorative tribute.*” (Co-organizers: **Shapiro LJ**, Godfrey LR, Wall CE, and Wunderlich RE) \$4000

### **Internal Research Grants and Awards**

2023 Faculty Development Leave award, University of Texas at Austin: Ecological influences on locomotor performance in free-ranging primates

2016 Faculty Research Assignment award, University of Texas at Austin: Kinematics of Quadrupedal Locomotion in Free-Ranging Primates

2010 Faculty Research Assignment award, University of Texas at Austin: The influence of very small body size on the evolution of primate quadrupedal locomotion.

2010 Undergraduate Research Apprenticeship, College of Liberal Arts, UT Austin. Student: Rebecca Ross. (\$2000)

2009 Special Research Grant, University of Texas at Austin. Evaluation of a microscopic quantitative approach for determining taillessness in fossil primates. (\$750)

- 2008 Undergraduate Research Apprenticeship, College of Liberal Arts, UT Austin. Student: Elissa Ludeman. (\$2000)
- 2008 Special Research Grant, University of Texas at Austin: Analysis of trabecular morphology of the sacrum in humans and other primates. (\$750)
- 2005 Faculty Research Assignment award, University of Texas at Austin: Locomotor Ontogeny and the Evolution of Quadrupedalism in Primates and Other Mammals.
- 1999 Faculty Research Assignment award, University of Texas at Austin: Form, Function, and Evolution of the Spine in Prosimians and Early Fossil Primates.
- 1994 URI Special Research Grant, University of Texas at Austin: Kinematics of the Spine in Prosimians.
- 1992 URI Special Research Grant, University of Texas at Austin: Functional Morphology of the Lorisid Spine.
- 1992 URI Summer Research Award, University of Texas at Austin: Functional Morphology of the Primate Spine.
- 1992 URI Special Research Grant, University of Texas at Austin: Vertebral Anatomy and Locomotor Behavior in *Propithecus*.

### **Instructional Technology Grants**

- 2012-2013 Liberal Arts Information Technology Services University of Texas at Austin Classroom Infrastructure Grant (Anthony Di Fiore, senior PI with Liza Shapiro, Rebecca Lewis, Chris Kirk, and Mariah Hopkins). Technologies for training in behavioral and ethnographic data collection and analysis. (\$4,194).
- 2004-2005 Liberal Arts Instructional Technology Grant, University of Texas at Austin Using Computer Technology To Enhance Teaching And Learning About Primate Anatomy And Evolution (\$26,939).
- 2002-2003 Liberal Arts Instructional Technology Grant, University of Texas at Austin Using Computer Technology To Enhance Teaching And Learning About Primate Anatomy And Evolution (\$18,597).
- 1998-1999 College of Liberal Arts, Vision Plan, University of Texas at Austin: Multimedia Teaching of Primate Anatomy and Evolution (\$25,000).
- 1994-1997 *Co-Principal Investigator*, National Science Foundation (Undergraduate Education):

A Laboratory Curriculum for Physical Anthropology on CD ROM (J. Kappelman, PI and C. Bramblett, Co-PI) (\$196,898).

1995 *Co-Principal Investigator*, National Science Foundation, Research Experience for Undergraduates: A laboratory curriculum for physical anthropology on CD ROM (J. Kappelman, PI and C. Bramblett, Co-PI) (\$5,000).

1991 *Co-Principal Investigator*. Apple Computer and Project Quest, University of Texas at Austin: Physical Anthropology Hypercard Laboratories for the Macintosh (C. Bramblett, J. Kappelman, Co-PIs)

### **Awards**

2009 “Ig Nobel” prize in physics, Annals of Improbable Research. (with K. Whitcome and D. Lieberman). For “research that first makes you laugh, then makes you think”. Accompanied by extensive media attention.

2004 Innovative Instructional Technology Award, University of Texas at Austin: “Interactive Laboratory Modules: Methodological Approaches to the Study of Primate Anatomy and Locomotion” (with D Raichlen).

1997 Innovative Instructional Technology Award, University of Texas at Austin: Computer-Based Multimedia "Virtual Laboratories and Examinations in Physical Anthropology (with J. Kappelman and C. Bramblett).

### **Invited Lectures**

2022 Looking “back”: The evolution of the human spine. UT OLLI DISCOVER.

2020 Was *Danuvius* bipedal? UT Austin Anthropology Society.

2019 People are primates. Austin Center for Inquiry, Darwin Day event. Austin, Texas.

2018 Why pregnant women don’t tip over. Invited lecture for Improbable Research Session, American Association for the Advancement of Science (AAAS) Annual Meeting, Austin, TX.

2018 People are primates. Austin Center for Inquiry, Darwin Day event. Austin, Texas.

2016 Primate quadrupedalism and primate origins: Insights from marsupials and mouse lemurs, Department of Evolutionary Anthropology, Duke University.

2016 Primate locomotion and the evolution of human bipedalism. Keynote speaker, Science Expo, Austin Jewish Academy.

- 2016 Function and evolution of primate quadrupedalism. CARE Initiative group meeting, Department of Mechanical Engineering, University of Texas at Austin
- 2015 Blue Planet Freshman Interest Group (FIG) Seminar: Invited by students to discuss my research and career in Anthropology
- 2014 What can the study of quadrupedal walking reveal about primate evolution? Invited lecture, Department of Anthropology, Texas AandM University.
- 2013 The origin and evolution of primate quadrupedalism: insights from marsupials. Invited lecture, Dept. of Anatomy and Neurobiology, Northeast Ohio Medical University.
- 2012 The origin and evolution of primate quadrupedalism: insights from marsupials. Invited lecture, Paleo Brown Bag, Department of Geological Sciences, University of Texas at Austin.
- 2012 The origin and evolution of primate quadrupedalism: insights from marsupials. Invited lecture, Section of Integrative Biology, School of Biological Sciences, University of Texas at Austin.
- 2011 Primate locomotion and the evolution of human bipedalism. Invited lecture, McCraw Departmental Lecture Series, Department of Kinesiology and Health Education, University of Texas at Austin.
- 2011 The evolution of quadrupedalism in primates: insights from mouse lemurs and other small mammals. Invited lecture for "Mouse Lemur Genetics and Genomics: Emerging Opportunities", Workshop held at the Janelia Farm Research Campus of the Howard Hughes Medical Institute, June 22-24, 2011.
- 2010 What can the study of quadrupedal walking reveal about primate evolution? Invited lecture, Department of Veterinary Sciences Michale E. Keeling Center for Comparative Medicine and Research UT M. D. Anderson Cancer Center.
- 2006 Teaching with Technology: Primate anatomy and evolution. Invited lecture, UT Austin Liberal Arts Instructional Technology Services, 3<sup>rd</sup> Friday Presentations.
- 2006 Presentation on careers in physical anthropology. Invited lecture for Zilker Elementary School speaker series for 5<sup>th</sup> and 6<sup>th</sup> grade girls to promote interest in math and science.
- 2002 Developmental Transitions and Motion Analysis Technology: What Can Infant Monkeys Tell Us About The Evolution Of Primate Locomotion? Invited lecture: Leakey Foundation Annual Symposium, UT Austin.
- 2001 Shapiro, L. Kinematics of the lumbar spine during quadrupedalism in strepsirhine primates. Invited lecture for UT Austin Integrative Biology Seminar.

1996 "Functional morphology of primate lumbar vertebrae." Invited lecture: Brown University, Departmental Seminar, Department of Ecology and Evolutionary Biology.

1994 "The evolution of human bipedalism." Invited lecture: University of Texas Anthropological Society, University of Texas at Austin.

1994 "The evolution of human bipedalism." Invited lecture: Dean's Scholars, College of Natural Sciences, University of Texas at Austin.

**Academic-Related Public Outreach:**

2018, 2019 People are primates. Austin Center for Inquiry, Darwin Day event. Austin, Texas.

2016 Primate locomotion and the evolution of human bipedalism. Keynote speaker, Science Expo, Austin Jewish Academy.

2006 Lecture on careers in physical anthropology, Speaker series for 5<sup>th</sup> and 6<sup>th</sup> grade girls to promote interest in math and science, Zilker Elementary School, Austin, Texas.

2004 Presentation on primate comparative anatomy, 1<sup>st</sup> Grade, Zilker Elementary School, Austin, Texas.

2003 Presentation on fossil primates, Kindergarten, Zilker Elementary School, Austin, Texas,.

1996 Tour of UT physical anthropology lab and discussion of primate comparative anatomy and evolution for Hillcrest elementary students,

1995 Co-organizer, Physical anthropology booth, Austin Science Fun Day, Highland Mall.

1993 Presentation on human skeleton, Kindergarten, Matthews Elementary School, Austin, Texas.

**Graduate students supervised, University of Texas at Austin (Department of Anthropology except where otherwise noted):**

**M.A. Supervisor:**

Cornelia Simons (M.A. 1998)

David Raichlen (M.A. 2000)

Magdalena Muchlinski (Co-Chair) (M.A. 2002)

Angel Zeininger (M.A. 2007)

Amy Hallberg (M.A. 2008)

Allison McNamara (M.A. 2018)  
Emma Curtis (2016-2019)  
Lydia Myers (M.A. 2022)  
Jamie Wiener (current)

**Ph.D. Supervisor:**

David Raichlen (Ph.D. 2004)  
Katherine Whitcome (Ph.D.2006)  
Magdalena Muchlinski (Co-supervisor) (Ph.D. 2008)  
Gabrielle Russo (Ph.D. 2013)  
Angel Zeininger (Ph.D. 2013)  
Maria Darr (2013-2016)  
Amber Heard-Booth (Ph.D. 2017)  
Madelynne Dudas (2017-2019)  
Allison McNamara (Ph.D. 2022)  
Lydia Myers (current)

**Committee member, M.A.**

Steig Johnson (M.A. 1995)  
Marsha Robbins(M.A. 1995)  
Joy Becker, (M.A. 1996)  
Naomi Cleghorn(M.A. 1996)  
Leah Buhl (M.A. 1997)  
Murat Maga (M.A. 2001)  
Carrie Veilleux (M.A. 2006)  
Matthew Kilberger (M.A 2007)  
Addison Kemp (M.A. 2013)  
Ingrid Lundeen (M.A. 2017)  
Amy Atwater (M.A. 2017)  
Ben Rodwell (M.A. 2020)  
Emily Raney (current)

**Committee member, Ph.D. (UT Austin Anthropology, unless otherwise indicated)**

Linda Brent (Ph.D. 1995)  
Elizabeth Erhart (Ph.D. 1996)  
Alice Fitch  
Alex Duncan (Ph.D. not completed)  
Christina Grassi (Ph.D. 2001)  
Steig Johnson (Ph.D. 2002)  
Robert Scott (Ph.D. 2004)  
Joyce Parga (Ph.D. 2006)  
Stacet Tecot (Ph.D. 2008)  
Laura Alport (Ph.D. 2009)  
Carrie Veilleux (Ph.D. 2012)

William Andrew Barr (Ph.D. 2014)  
James Proffitt (Ph.D. 2018) (UT Austin Dept. of Geological Sciences)  
Lauren English (Ph.D. 2018) (UT Austin Dept. of Geological Sciences)  
Addison Kemp (Ph.D. 2019)  
Brett Nachman (former, left program 2019)  
Chris Davis (Ph.D. 2019)  
Ingrid Lundeen (Ph.D. 2021)  
Ben Rodwell (current)

**External committee member or reader, Ph.D.:**

Xinmin Chen, (Ph.D. 2005, University of Western Australia)  
Thierra Nalley, (Ph.D. 2013, Arizona State University)  
Katrina Jones, (Ph.D. 2014, Johns Hopkins University)  
Rebekah Dawson (Ph.D. 2015, University of Western Australia)  
Laurent Pallas (Ph.D. 2020) Université de Poitiers)

**Undergraduate Research and Honors Theses Supervised**

2020-2021 Expanding a phylogenetic analysis to understand the locomotion of the primate common ancestor (Honors thesis, UT Austin, Department of Anthropology). **Student: Julia Stone**

2015-2017 The physics of snare drumming. **Student: Aundre Wesley.**

2017 Effect of pregnancy on posture and back pain. Bridging Disciplines Program, UT Austin. **Student: Katie Kindle.**

2012-2013 The effect of forelimb mass distribution on the function of arm swinging during human bipedalism. (Honors thesis, UT Austin, Department of Anthropology). **Student: Katie Sayre**

2009 The Prevalance of Dystocia in *Saimiri* in Relation to Pelvic Size, Infant Cranial Dimensions, and Reproductive History. (Honors Thesis, UT Austin, Department of Anthropology). **Student: Rachel Sievert**

2002-2003 Undergraduate Research Fellowship award, University of Texas at Austin. Comparative Kinematics of Primate and Chameleon Locomotion and Implications for the Evolution of Primate Quadrupedalism (Honors Thesis, UT Austin Department of Anthropology) **Student: Rachel Dunn**

2002-2003 Undergraduate Research Fellowship award, University of Texas at Austin. Correlating Interspecies Variation in Hylobatid Canine Size and Morphology with Dietary Differences (Honors Thesis, UT Austin Dept. of Anthropology) **Student: Alice Elder**



1990-1991 New Methods for Quantitative Analysis of Primate Phalanges with Special Reference to the Flexor Sheath Ridges of the Hominoidea. (Honors Thesis, UT Austin Department of Anthropology) **Student: Martin Cohn**

**Undergraduates who have participated in research in my lab (since 2007)**

Rebecca Ross  
Katie Sayre  
Mareike Janiak  
Elissa Ludeman  
Rachel Sievert  
Kristen Petit  
Olivia Provencio-Johnson  
Teresa Burgess  
Sheila Pande  
Parham Daghighi  
Jessica Wood  
Walker Stanton  
Ian Barry  
Ingrid Alberding  
Alistair Disraeli  
Hanna Lewis  
Marie Pearce  
Yanyu Yang  
Anthony Cundari  
Asas Husain  
Alex Silva

**Advising and Related Student Service:**

**Graduate Advisor**, Department of Anthropology: 4 years (1999-2003)

**Faculty mentor**, College of Liberal Arts Freshman Year Initiative, 5 years (1997-2002):  
Mentored students, participated in 8-9 summer orientation sessions per year for 4 years, led Ransom Reading Group, field trip to Austin Zoo.

**Panelist**, Graduate admissions panel for UT Anthropological Society, an undergraduate organization for anthropology majors. 1996, 1997, 2001

**Panelist**, Panel on non-academic careers in Anthropology, UT Anthropological Society, an undergraduate organization for anthropology majors. 2005.

**Participant, Plan I Honors Program**, College of Liberal Arts. Invited lectures on anthropology

for LAH 102, a Plan I course intended to give incoming honors freshman an overview of disciplines within the College of Liberal Arts, and to help them choose a career path. 1993-1996, 1997, 1999, 2002-2004.

**Speaker**, UT Austin New Faculty Teaching/Orientation Seminar, 2001 (led session on “Balancing Teaching and Research”)

**Committee and other service, University of Texas at Austin:**

**Committee Service, UT Austin, Department of Anthropology (1990-present):**

Interim Chair, Department of Anthropology Fall 2021  
Associate Chair of department, 2011-2014  
Executive Committee  
Extended Budget Council Committee  
Graduate Admissions Committee (Committee Chair, 2011, 2012, 2013)  
Graduate Studies Steering Committee (Interim Committee Chair, 2011, Chair 2019-2020, 2020-2021)  
Merit Committee (Committee Chair, 2022-present)  
Undergraduate Studies Committee (Chair, 2011)  
Anthropology Steering Committee  
Ad Hoc Human Osteology Collections Review Committee  
Human Subjects Committee  
Biological Anthropology Search Committee (Committee Chair, 2002-2003, 2003-2004, 2005-2006, 2017)  
Physical Anthropology Irregular Hiring Committee (Committee Chair, 2015)  
Social Anthropology Search Committee  
Linguistic Anthropology Search Committee  
Colloquia Committee  
Film and Video Purchase Committee  
Minority Liaison Committee  
Computer Committee (Committee Chair, 2005-2006)  
SACS Accreditation Committee  
Course Planning Committee  
Promotion and Tenure Committee  
TracDat Committee (Committee Chair, 2012-2014)  
TA Assignment Committee

**Committee Service, College of Liberal Arts:**

Selection Committee, Dedman Scholarship (1998, 2000-2003, 2005, 2006)  
Selection Committee, McReynolds Award in Pre-Medical Studies (2015)  
Selection Committee, Eleanor Cruikshank Moore Memorial Endowed Presidential Scholarship in Liberal Arts (2015)

**Committee Service, University of Texas at Austin:**

FRA/SRA selection committee B (2008)

Unrestricted Endowed Presidential Scholarship committee 2015-2019

**Academic-Related Professional Service:**

**Editorial Appointments:**

2020-2023 Associate Editor, Journal of Human Evolution

2004-2007 Associate Editor, Journal of Human Evolution

2005- 2010 Associate Editor, American Journal of Physical Anthropology

**American Association of Biological Anthropologists**

2016-2017 Program Committee, American Association of Biological Anthropologists

2018 Local Arrangements Committee Co-Chair, American Association of Biological Anthropologists

**Texas Association of Biological Anthropologists**

2007, 2013, 2016, Member, Local Arrangements Committee

2022 - Chair, Local Arrangements Committee; Member, Scientific program committee

2020. **Member, External Review Committee**, Department of Anthropology, University of Colorado, Boulder.

2023-present **Member, Duke Lemur Center Research Advisory Committee, Duke University**

**Grant reviews and service:**

**Panelist** NSF 2020

**Reviewer:** National Science Foundation, Leakey Foundation, NWO (Netherlands Organization for Scientific Research), Leverhulme Trust (England), NSERC (Natural Sciences and Engineering Research Council), Canada, Sigma Delta Epsilon, Graduate Women in Science, Texas Academy of Sciences, Israeli Science Foundation

**Manuscript reviewer:**

American Journal of Physical Anthropology, Journal of Human Evolution, Journal of Experimental Biology, American Journal of Primatology, Journal of Zoology, Journal of Anatomy, Journal of Experimental Zoology, Folia Primatologica, Primates, Zoobiology Comparative Biochemistry and Physiology, PLOS ONE, Biological Journal of the Linnean Society, Clinical Anatomy, Anatomical Record, Paleoanthropology, Biology Open, Behavioural Processes, Evolution, Medicine and Public Health, Evolutionary Anthropology, BMC Evolutionary Biology, Biology Letters, Scientific Advances

**Textbook Reviewer:**

Harper Collins College Publishers, Prentice Hall Publishers, McGraw Hill, Blackwell Publishing