

# Robert S. Scott

## Title and Address:

Associate Professor & Undergraduate Program Director  
Department of Anthropology  
School of Arts and Sciences  
Rutgers, The State University of New Jersey  
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## Education

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### Highest Earned Degree

Ph.D., 2004, Anthropology, The University of Texas at Austin

### Dissertation

The Comparative Paleoecology of Late Miocene Eurasian Hominoids, 2004 (John Kappelman, dissertation advisor)

### Other Earned Degrees

M.A., 1996, Anthropology, The University of Texas at Austin

B.A., *with distinction*, 1994, Anthropology and Organismal Biology, Yale University

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## Honors and Awards

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### Fellowships

2019. Professeur invité PALEVOPRIM, Université de Poitiers

2002-2003. Homer Lindsey Bruce Fellowship, The University of Texas at Austin

2000. Billy Bob Draeger Graduate Research Fellowship, The University of Texas at Austin

1998-1999. Geraldine Hill Styles Scholarship, The University of Texas at Austin

1997-1998. Tuition Fellowship, The University of Texas at Austin

1994-1995. Preemptive University Fellowship, The University of Texas at Austin

### Professional Awards and Honors

2011. Award for Distinguished Contributions to Undergraduate Education by an Assistant Professor, School of Arts and Sciences, Rutgers, The State University of New Jersey

2000. Ying-Chien Chang Science Award for USA-China Collaborative Field Research, Society of Vertebrate Paleontology

1995. Hon. Mention, National Science Foundation Graduate Fellowship Competition

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## Funding

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### Externally-Funded Research and/or Training Grants

- 2019-ongoing | (Grant Amount: \$15,151) Microstructure and Mechanical Properties of Primate Tooth Enamel  
National Science Foundation, "Doctoral Dissertation Research: Microstructure and Mechanical Properties of Primate Tooth Enamel", R.S. Scott, PI; F. Foster, Co-PI
- 2017-ongoing | (Grant Amount: \$187,767) National Science Foundation, "Collaborative Research: Experimental Assessment of Dental Microwear Formation", R.S. Scott, PI
- 2017-2019 | (Grant Amount: \$3,200) National Science Foundation, "Doctoral Dissertation Research: Adaptations for Insectivory in Digestive Enzymes of Primates", R.S. Scott, PI; M. Janiak, Co-PI
- 2014-2019 | (Grant Amount: \$46,587) National Science Foundation, "Collaborative Research: Integrative Analysis of Ingestive Biomechanics and Dental Microwear Using Capuchins as a Model Organism", R.S. Scott, PI
- 2012-2016 | (Grant Amount: \$995,508) Supporting Universities to Partner Across the Pacific, Component I - USAID, "Promoting Biodiversity, Sustainable Management, and Conservation of Peat-Swamp Forests through Education and Training Partnerships", E.R. Vogel, PI; R.S. Scott, Co-PI
- 2010-2011 | (Grant Amount: \$35,000) International Collaborative Research Grant - The Wenner-Gren Foundation, "Site Formation and Taphonomy of the Late Pleistocene Hominin Site of Ngandong, Java (Indonesia)", R.L. Ciochon, PI; R.S. Scott, Co-PI; Zaim; Bettis; Huffman; Larick; Rizal; Aswan
- 2009-2011 | (Grant Amount: \$29,984) International Collaborative Research Grant - The Wenner-Gren Foundation, "Environmental Dynamics of Western Eurasian Hominids during the Late Miocene", R.S. Scott, PI; T Kaya, Co-PI; D.S. Kostopoulos, Co-PI; S. Mayda, Co-PI; G. Merceron, Co-PI
- 2008-2009 | (Grant Amount: \$100,000) SBIR (Phase 1) - National Institutes of Health, "A Non-Invasive Method to Distinguish Melanomas from Benign Skin Lesions", DermaTex, LLC (R.S. Scott, Founding Partner and Senior Personnel)
- 2001-2003 | (Grant Amount: \$11,979) National Science Foundation, "Dissertation Research: The Comparative Paleoecology of Late Miocene Eurasian Hominoidea Based on Bovid and Equid Metapodial Functional Morphology", J. Kappelman, PI; R.S. Scott, Co-PI

#### **Internally-Funded Research and/or Training Grants**

- 2013-2014 | (Grant Amount: \$1,000) Center for Human Evolutionary Studies - Rutgers, "Mandibular Morphology, Dental Microwear, Feeding Time, and Food Material Properties of *Colobus polykomos*", R.S. Scott, PI
- 2012-2013 | (Grant Amount: \$3,000) SAS Research Council Award - Rutgers, "Raw versus Cooked: Energetic Benefits of Cooking Meat", R.S. Scott, PI
- 2012-2014 | (Grant Amount: \$30,000) TIM Seed Grant Program - Rutgers, "Determinants of Human Digestive Performance: Cooking and Enzymes", R.S. Scott, PI; D.J. Hoffman, Co-PI; E. Vogel, Co-PI; Jinchuan Xing, Co-PI
- 2012-2014 | (Grant Amount: \$6,000) Center for Human Evolutionary Studies - Rutgers, "Behavioral and Enzymatic Adaptations to Food Energy Maximization", R.S. Scott, PI; D.J. Hoffman, Co-PI
- 2011-2012 | (Grant Amount: \$5,200) Center for Human Evolutionary Studies - Rutgers, "Mechanical Properties of Human and Nonhuman Primate Diets", R.S. Scott, PI

- 2010-2011 | (Grant Amount: \$1,755) Center for Human Evolutionary Studies - Rutgers, "Internal Architecture of the Distal Radius in Knuckle-Walking and Digitigrade Primates", R.S. Scott, PI
- 2009-2010 | (Grant Amount: \$14,710) Center for Human Evolutionary Studies - Rutgers, "Quantification of Bone Surface Modification and Dental Mesowear", R.S. Scott, PI
- 2008-2009 | (Grant Amount: \$4,000) SAS Global Opportunity Award - Rutgers, "Crossroads to Africa: Paleontological Survey of Miocene Apes and Associated Faunas in Western Anatolia", R.S. Scott, PI
- 2008-2009 | (Grant Amount: \$11,995) Center for Human Evolutionary Studies - Rutgers, "Landmark Versus Point-Cloud Approaches to 3D Comparative Morphology", R.S. Scott, PI
- 2005-2006 | (Grant Amount: \$27,000) Arkansas Biosciences Institute - University of Arkansas, "A Texture Based Approach to Screening for Squamous Cell Carcinoma of the Oral Cavity", P.S. Ungar, PI; R.S. Scott, Co-PI (80%); J. Rose, Co-PI
- 2000 | (Grant Amount: \$1,800) Summer Research Grant - College of Liberal Arts, The University of Texas at Austin, "Paleontological Study of Miocene Fossils from Höwenegg, Germany", R.S. Scott, PI

### **International Studies and Programs Grants**

- 2020-ongoing | (Grant Amount: \$5,000) Rutgers Global: Study Abroad Global Learning and Language Engagement Innovation Grant, "Paléontologie en France", R. S. Scott (PI); C. Allamand (Co-PI)

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## **Employment History**

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### **Positions Held**

- 2014-ongoing | Undergraduate Program Director, Department of Anthropology, Rutgers, The State University of New Jersey
- 2014-ongoing | Associate Professor, Department of Anthropology, Rutgers, The State University of New Jersey
- 2007-2014 | Assistant Professor, Department of Anthropology, Rutgers, The State University of New Jersey
- 2007-ongoing | Member, Center for Human Evolutionary Studies, Rutgers, The State University of New Jersey
- 2004-2007 | Postdoctoral Research Fellow, Department of Anthropology, The University of Arkansas
- 2003-2004 | Project Manager, eSkeletons.org, Department of Anthropology, The University of Texas at Austin
- 2003-2003 | Assistant Instructor, Department of Anthropology, The University of Texas at Austin
- 2000-2002 | Teaching Assistant, Department of Anthropology, The University of Texas at Austin
- 1999-2000 | Graduate Research Assistant, Virtual Exam Development Project, Department of Anthropology, The University of Texas at Austin
- 1999-1999 | Senior Research Associate, Virtual Exam Development Project, Department of Anthropology, The University of Texas at Austin
- 1995-1998 | Teaching Assistant, Department of Anthropology, The University of Texas at Austin

## Graduate Program Affiliations

The Graduate Faculty of Ecology and Evolution-New Brunswick, Full Member

The Graduate Faculty of Anthropology-New Brunswick, Full Member

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## Publications

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### Articles in Refereed Journals

2020. Laird, M.F., B.W. Wright, A.O. Rivera, M. D. Fogaça, A. van Casteren, D.M. Fragaszy, P. Izar, E. Visalberghi, **R.S. Scott**, D.S. Strait, C.F. Ross, K.A. Wright. Ingestive behaviors in bearded capuchins (*Sapajus libidinosus*). *Scientific Reports* 10:20850. doi: 10.1038/s41598-020-77797-2
2020. Rizal, Y., K.E. Westaway, Y. Zaim, G.D. van den Bergh, E. Arthur Bettis III, M.J. Morwood, O.F. Huffman, R. Grün, R. Joannes-Boyau, R.M. Bailey, Sidarto, M. C. Westaway, I. Kurniawan, M.W. Moore, M. Storey, F. Aziz, Suminto, J. Zhao, Aswan, M. E. Sipola, R. Larick, J-P.I. Zonneveld, **R. Scott**, S. Putt & R.L. Ciochon. Last appearance of *Homo erectus* at Ngandong, Java, 117,000–108,000 years ago. *Nature* 577 (7790): 381–385. doi: 10.1038/s41586-019-1863-2
2019. Wright, B.W., K.A. Wright, D.S. Strait, C.F. Ross, M.F. Laird, A. van Casteren, **R.S. Scott**. Taking a big bite: Working together to better understand the evolution of feeding in primates. *American Journal of Primatology* 81 (5): e22981
2018. Coiner-Collier, S., E.R. Vogel, **R.S. Scott**. Trabecular anisotropy in the primate mandibular condyle is associated with dietary toughness. *The Anatomical Record* 301: 1342–1359. doi:10.1002/ar.23810
2016. Coiner-Collier, S., **R.S. Scott**, J. Chalk-Wilayto, S.M. Cheyne, P. Constantino, N.J. Dominy, A.A. Elgart, H. Glowacka, L.C. Loyola, K. Ossi-Lupo, M. Raguette-Schofield, M.G. Talebi, E.A. Sala, P. Sieradzy, A.B. Taylor, C.J. Vinyard, B.W. Wright, N. Yamashita, P.W. Lucas, & E.R. Vogel. Primate dietary ecology in the context of food mechanical properties. *Journal of Human Evolution* 98: 103–118. doi:10.1016/j.jhevol.2016.07.005
2016. Merceron, G., A. Novello, & **R.S. Scott**. Palaeontology of the Upper Miocene mammal localities of Nikiti (Chalkidiki Peninsula, Macedonia, Greece) - paleoenvironments inferred from phytoliths and Dental Microwear Texture Analyses of meso-herbivores. *Geobios* 49: 135–146. doi:10.1016/j.geobios.2016.01.004
2015. Raichlen, D.A., A.D. Gordon, A.D. Foster, J.T. Webber, S.M. Sukhdeo, **R.S. Scott**, J.H. Gosman, & T.M. Ryan. An ontogenetic framework linking locomotion and trabecular bone architecture with applications for reconstructing hominin life history. *Journal of Human Evolution* 81: 1–12. doi:10.1016/j.jhevol.2015.01.003
2015. Pante, M.C., R.J. Blumenshine, S.D. Capaldo, & **R.S. Scott**. Revalidation of bone surface modification models for inferring fossil hominin and carnivore feeding interactions. *Quaternary International* 355: 64–168. doi: 10.1016/j.quaint.2014.09.007
2014. **Scott, R.S.**, & A.W. Barr. Ecomorphology and phylogenetic risk: implications for habitat reconstruction using fossil bovids. *Journal of Human Evolution* 73: 47–57. doi.org/10.1016/j.jhevol.2014.02.023
2014. Barr, W.A., & **R.S. Scott**. Phylogenetic comparative methods complement discriminant function analysis in ecomorphology. *American Journal of Physical Anthropology* 153 (4): 663–674. doi:10.1002/ajpa.22462
2012. **Scott, R.S.**, P.S. Ungar, & M.F. Teaford. Dental microwear textures and anthropoid diets. *American Journal of Physical Anthropology* 147 (4): 551–579. doi:10.1002/ajpa.22007
2012. Kaya, T., S. Mayda, D.S. Kostopoulos, M.C. Alcicek, G. Merceron, A. Tan, S. Karakutuk, A.K. Giesler, & **R.S. Scott**. Şerefköy-2, a new late Miocene mammalian locality from the Yatağan Formation, Muğla, SW Turkey. *Comptes Rendus Palevol* 11 (1): 5–12. doi:10.1016/j.crpv.2011.09.001

2012. Ungar, P.S., K.L. Krueger, R.J. Blumenshine, J. Njau, & **R.S. Scott**. Dental microwear texture analysis of hominins recovered by the Olduvai Landscape Paleoanthropology Project, 1995-2007. *Journal of Human Evolution* 63 (2): 429-437. doi:10.1016/j.jhevol.2011.04.006
2012. Pante, M.C., R.J. Blumenshine, S.D. Capaldo, & **R.S. Scott**. Validation of bone surface modification models for inferring fossil hominin and carnivore feeding interactions, with reapplication to FLK 22, Olduvai Gorge, Tanzania. *Journal of Human Evolution* 63 (2): 395-407. doi:10.1016/j.jhevol.2011.09.002
2010. Ungar, P.S., **R.S. Scott**, F.E. Grine, & M.F. Teaford. Molar microwear textures and the diets of *Australopithecus anamensis* and *Australopithecus afarensis*. *Philosophical Transactions of the Royal Society B: Biological Sciences* 2010 365 (1556): 3345-3354. doi:10.1073/pnas.1104627108
2010. Grine, F.E., S. Judex, D.J. Daegling, E. Ozcivici, P.S. Ungar, M.F. Teaford, M. Sponheimer, J. Scott, **R.S. Scott**, & Alan Walker. Craniofacial biomechanics, and functional and dietary inferences in hominin paleontology. *Journal of Human Evolution* 58 (4): 293-308. doi:10.1016/j.jhevol.2009.12.001
2009. Merceron, G., J. Scott, **R. S. Scott**, D. Geraads, N. Spassov, & P. S. Ungar. Folivory or fruit/seed predation for *Mesopithecus*, an earliest colobine from the late Miocene of Eurasia? *Journal of Human Evolution* 57: 732-738. doi: 10.1016/j.jhevol.2009.06.009
2009. Scott, J.R., L.R. Godfrey, W.L. Jungers, **R.S. Scott**, E.L. Simons, M.F. Teaford, P.S. Ungar, & A. Walker. Dental microwear texture analysis of two families of subfossil lemurs from Madagascar. *Journal of Human Evolution* 56: 405-416. doi: 10.1016/j.jhevol.2008.11.003
2007. Ungar, P.S., G. Merceron, & **R.S. Scott**. Dental microwear texture analysis of Varswater bovids and early Pliocene paleoenvironments of Langebaanweg, Western Cape Province, South Africa. *Journal of Mammalian Evolution* 14 :163-181. doi 10.1007/s10914-007-9050-x
2006. Merceron, G., S. Taylor, **R.S. Scott**, Y. Chaimanee, & J.-J. Jaeger. Dietary characterization of the hominoid *Khoratpithecus* (Miocene of Thailand): evidence from dental topographic and microwear texture analyses. *Naturwissenschaften* 93: 329-333. doi 10.1007/s00114-006-0107-0
2006. **Scott, R.S.**, P.S. Ungar, T.S. Bergstrom, C.A. Brown, B.E. Childs, M.F. Teaford & A. Walker. Dental microwear texture analysis: technical considerations. *Journal of Human Evolution* 51: 339-349. doi:10.1016/j.jhevol.2006.04.006
2005. **Scott, R.S.**, P.S. Ungar, T.S. Bergstrom, C.A. Brown, F.E. Grine, M.F. Teaford, & A. Walker. Dental microwear texture analysis shows within-species diet variability in fossil hominins. *Nature* 436 (7051): 693-695. doi:10.1038/nature03822
2005. **Scott, R.S.** & M. Maga. Paleocology of the Akkaşdağı hipparions (Mammalia, Equidae), late Miocene of Turkey. *Geodiversitas* 27 (4): 809-830.
2005. Bernor, R.L., **R.S. Scott**, & Y. Haile-Selassie. A contribution to the evolutionary history of Ethiopian hipparionine horses: morphometric evidence from the postcranial skeleton. *Geodiversitas* 27 (1): 133-158.
2005. **Scott, R.S.**, R.L. Bernor, & W. Raba. Hipparionine horses of the Greater Pannonian Basin: morphometric evidence from the postcranial skeleton. *Paleontographia Italica* 90: 193-212.
2005. **Scott, R.S.**, M. Armour-Chelu & R.L. Bernor. Evidence for two hipparion species at Rudabánya II. *Paleontographia Italica* 90: 213-216.
2004. Bernor, R.L., M. Armour-Chelu, T. Kaiser & **R.S. Scott**. Equidae, *Hipparion* s.l. In: Recent Advances on Multidisciplinary Research at Rudabánya, Late Miocene (MN9), Hungary: a compendium. *Paleontographia Italica* 89: 18.
2003. Kaiser, T.M., R. L. Bernor, **R.S. Scott**, J.L. Franzen & N. Solounias. New interpretations of the systematics and palaeocology of the Dorn-Dürkheim 1 Hipparions (Late Miocene, Turolian Age [MN11]), Rheinhessen, Germany. *Senckenbergiana lethaea* 83 (1/2):103-133.
2003. Bernor, R.L., M. Armour-Chelu, T. Kaiser & **R.S. Scott**. An evaluation of the Late MN 9 (Late Miocene, Vallesian Age), Hipparion assemblage from Rudabánya: systematic background, functional

anatomy and paleoecology. *Coloquios de Paleontología* Vol. Ext. 1: 35-46.

2003. Bernor, R.L., & **R.S. Scott**. New interpretations of the systematics, biogeography and paleoecology of the Sahabi Hipparions (latest Miocene), Libya. *Geodiversitas* 25 (2): 297-319.

2002. Zhang, Z., A.W. Gentry, A. Kaakinen, L. Liu, J.P. Lunkka, Z. Qiu, S. Sen, **R.S. Scott**, L. Werdelin, S. Zheng, & M. Fortelius. Land mammal faunal sequence of the late Miocene of China: new evidence from Lantian, Shaanxi Province. *Vertebrata Palasiatica* 40:165-176.

1999. Bernor, R.L., T.M. Kaiser, L. Kordos & **R.S. Scott**. Stratigraphic context, systematic position and paleoecology of *Hippotherium sumegense* KRETZOI, 1984 from MN 10 (Late Vallesian of the Pannonian Basin). *Mitteilungen der Bayerischen Staatssammlung für Palaontologie und Historische Geologie*. 39: 1-35

1999. **Scott, R.S.**, J. Kappelman, & J. Kelley. The paleoenvironment of *Sivapithecus parvada*. *Journal of Human Evolution* 36: 245-274.

### Chapters in Books or Monographs

2014. Kovarovic, K. & **R.S. Scott**. The evolution and skeletal anatomy of wild cattle (Bovini). In: *Ecology, Evolution and Behaviour of Wild Cattle: Implications for Conservation* (J. Burton, M. Melletti, editors). Cambridge University Press: pp. 39-50.

2009. Ungar, P.S. & **R.S. Scott**. Dental evidence for diets of early *Homo*. In: *The First Humans (Vertebrate Paleobiology and Paleoanthropology)* (F.E. Grine, J.G. Fleagle, & R.E. Leakey, editors). Springer: pp. 121-134. doi: 10.1007/978-1-4020-9980-9\_11

2008. Ungar, P.S., **R.S. Scott**, J.R. Scott, & M.F. Teaford. Dental microwear analysis: historical perspectives and new approaches. In: *Technique and Application in Dental Anthropology (Cambridge Studies in Biological and Evolutionary Anthropology)* (J.D. Irish & G.C. Nelson, editors). Cambridge University Press: pp. 389-425.

2003. **Scott, R.S.**, M. Fortelius, K. Huttunen, & M. Armour-Chelu. Abundance of “*Hipparion*” In: *The Geology and Paleontology of the Miocene Sinap Formation, Turkey* (M. Fortelius, J. Kappelman, S. Sen, & R.L. Bernor, editors). Columbia University Press. pp. 380-397.

2003. Bernor, R.L., **R.S. Scott**, M. Fortelius, J. Kappelman, & S. Sen. Equidae (Perissodactyla). In: *The Geology and Paleontology of the Miocene Sinap Formation, Turkey* (M. Fortelius, J. Kappelman, S. Sen, & R.L. Bernor, editors). Columbia University Press. pp. 220-281.

### Published Conference Proceedings

2019. Van Casteren, A., M.D. Fogaca, D.M. Fragaszy, P. Izar, C. Ross, **R.S. Scott**, B.W. Wright, K.A. Wright & D.S. Strait. Grit in unexpected places: The prevalence of grit in the diets of robust capuchin species. *American Journal of Physical Anthropology* 168 (68): 254-255.

2019. Chalk-Wilayto, J., M.F. Laird, K.A. Wright, A.O. Rivera, B.W. Wright, P. Izar, D.M. Fragaszy, C.F. Ross, D.S. Strait, A. Van Casteren, E. Visalberghi, **R.S. Scott**, & M.D. Fogaca. Age-related variation in ingestive behavior patterns in *Sapajus* spp. *American Journal of Physical Anthropology* 168 (68): 39.

2019. **Scott, R.S.**, O. Boss, L.R.G. DeSantis, C. Marcil, C. Ross, A. Schwartz, B.W. Wright, K.A. Wright, A. Van Casteren & D.S. Strait. Assessment of dental microwear formation using a capuchin model: grit versus diet. *American Journal of Physical Anthropology* 168 (68): 223.

2018. Baumgarten, S.E., A.L. Smith, K.A. Wright, B.W. Wright, **R.S. Scott**, C.F. Ross, D.S. Strait. Biomechanical correlates of premolar root variation in robust and gracile capuchins. *American Journal of Physical Anthropology* 165 (66): 21.

2018. Wright, K.A. , A.O. Rivera, B.W. Wright, M. Fogaca, M. A. Van Casteren, D. Fragaszy, **R.S. Scott**, D.S. Strait, C.F. Ross & M.F. Laird. How do food material properties affect ingestive behavior? *American Journal of Physical Anthropology* 165 (66): 305.

2017. Mason, V.N., **R.S. Scott**, & S. Cachel. Energetics of the nasal cavity: the impact of total energy

- expenditure on cranial airway morphology. *American Journal of Physical Anthropology* 162 (S64): 278.
2017. **Scott, R.S.**, B.W. Wright, K.A. Wright, C. Ross, A. Van Casteren, M. Fogaça, D.M. Fragaszy, Claire Marcil & D.S. Strait. Food toughness and dental microwear anisotropy. *American Journal of Physical Anthropology* 162 (S64): 352.
2016. Williams, L.R., **R.S. Scott**, & S. Duffy. Experimental coevolution with bacteria and phage provide insights into human-pathogen coevolutionary dynamics. *American Journal of Physical Anthropology* 159 (S62): 334.
2015. Coiner-Collier, S., **R.S. Scott**, & E.R. Vogel. Trabecular structure of the mandibular condyle and food mechanical properties in non-human primates. *American Journal of Physical Anthropology* 156 (S60): 107-108.
2015. **Scott, R.S.**, K. DeRosa, & M.A. Rogers. Cooking and sugar bioaccessibility from starch in human evolution. *American Journal of Physical Anthropology* 156 (S60): 283.
2014. DeRosa, K., **R.S. Scott**, H. Hong-Seok, & J Xing. Global survey of PGA indicates high CNV variability in human populations. *American Journal of Physical Anthropology* 153 (S58): 104.
2014. Raichlen, D.A., A.D. Gordon, **R. S. Scott**, J. Webber, A.D. Foster, S. Sukhdeo, J. Gosman, & T. Ryan. An ontogenetic framework linking locomotion and trabecular bone architecture with applications for reconstructing hominin life history. *American Journal of Physical Anthropology* 153 (S58): 215-216.
2013. Zhou, Z., D. Ward, D. Shapiro, S. Hlubik, K.L. DeRosa, D. J. Hoffman, E.R. Vogel, & **R.S. Scott**. Influence of food material properties and cooking on meat-eating performance in humans. *American Journal of Physical Anthropology* 150 (S56): 299.
2013. Keepers, B., M.A. Gleason, J.A. Parkinson, J.S. Reti, P. Weis, T. Plummer, **R.S. Scott**. Distinguishing cut marks from carnivore tooth marks using scale-sensitive curvature of mark profiles. *American Journal of Physical Anthropology* 150 (S56): 164.
- \*2013. Coiner-Collier, S., E.R. Vogel, & **R.S. Scott**. Feeding behavior and trabecular architecture of the mandibular condyle in extant primates. *American Journal of Physical Anthropology* 150 (S56): 100.
2013. Vogel, E.R., S. Coiner-Collier, **R.S. Scott**, J. Chalk, P. Constantino, H. Glowacka, L. Loyola, K. Ossi-Lupo, M. Raguette-Schofield, M. Talebi, C. J. Vinyard, B. W. Wright, N. Yamashita, N. J. Dominy, & P. W. Lucas. Do food material properties predict jaw and tooth morphology in primates? *American Journal of Physical Anthropology* 150 (S56): 280.
2012. **Scott, R.S.** & W.A. Barr. Ecomorphology and phylogeny among the Bovidae: implications for habitat reconstruction. *American Journal of Physical Anthropology*, 147 (S54): 265.
- \*2010. **Scott, R.S.**, G. Merceron, T. Kaya, D. Kostopoulos, & S. Mayda. Dental microwear texture analysis, dental mesowear and distal limb ecomorphology of the Kalfa (Moldova) hipparionine horses: a multi-proxy paleoecological reconstruction. *Journal of Vertebrate Paleontology* 30 (S2): 161A
2010. Ungar, P.S., K.L. Krueger, R.J. Blumenshine, **R.S. Scott**, & J.K. Njau. Dental microwear texture analysis of newly discovered hominins from Olduvai Gorge. *American Journal of Physical Anthropology*, 141 (S50): 232
2010. Coiner-Collier, S. & **R.S. Scott**. Trabecular bone volume fraction may reflect dietary adaptations: an analysis of the mandibular condyles of non-human primates. *American Journal of Physical Anthropology*, 141 (S50): 83
2009. Steele, M.J. & **R.S. Scott**. Ecomorphology of first phalanx reflects differing habitat adaptations among cephalophines. *American Journal of Physical Anthropology*, 138 (S48): 247
2009. **Scott, R.S.**, M.F. Teaford, & P.S. Ungar. Dietary diversity and dental microwear variability in *Theropithecus gelada* and *Papio cynocephalus*. *American Journal of Physical Anthropology*, 138 (S48): 234
- \*2008. **Scott, R.S.**, B. Schubert, F. Grine, & M.F. Teaford. Low magnification microwear: questions of

precision and repeatability. *Journal of Vertebrate Paleontology*, 28 (S3): 139A.

\*2008. **Scott, R.S.** Significance of biotic controls on hominid paleoenvironments. *American Journal of Physical Anthropology*, 135 (S46): 189-190

\*2008. Ungar, P.S. & **R.S. Scott**. Investigating the importance of fallback foods in early hominins using dental microwear. *American Journal of Physical Anthropology*, 135 (S46): 212

\*2007. Ungar, P.S. & **R.S. Scott**. Microwear texture analysis: microwear as applied to fossil primates and human ancestors. *Journal of Morphology*, 268 (12): 1143  
(Eighth International Congress of Vertebrate Morphology Paris, France, July 16-21, 2007)

\*2007. Scott, J.R., P.S. Ungar, W.L. Jungers, L.R. Godfrey, **R.S. Scott**, E.L. Simons, M.F. Teaford, & A. Walker. Dental microwear texture analysis of megaladapids and archaeolemurids. *American Journal of Physical Anthropology*, 132 (S44): 212

\*2006. **Scott, R.S.** Habitat score: inferring hominid paleoenvironments based on equid and bovid metapodial morphology. *American Journal of Physical Anthropology*, 129 (S42): 161

\*2006. Ungar, P.S., G. Merceron, **R.S. Scott**. Dental microwear of bovids from Langebaanweg: Evidence for diet and paleoecology. *African Natural History*, 2:199-200

\*2006. Ungar, P.S., **R.S. Scott**, C.A. Brown, B.E. Childs, T.S. Bergstrom, M.F. Teaford, & A. Walker. Dental microwear texture analysis of primate molar wear facets. *American Journal of Physical Anthropology*, 129 (S42): 180

\*2005. **Scott, R.S.**, T.S. Bergstrom, C.A. Brown, M. Teaford, A. Walker, & P. Ungar. A measurement based technique for dental microwear analysis: applying confocal microscopy and scale-sensitive fractal analysis. *American Journal of Physical Anthropology*, 126 (S40): 186

\*2004. **Scott, R.S.** Bovid metapodials, late Miocene paleoenvironments, and hominoid evolution. *American Journal of Physical Anthropology*, 123 (S38): 177-178

2000. **Scott, R.S.** An abundance model including logistic growth parameters for equids from the late Miocene Sinap Formation, Turkey. *Journal of Vertebrate Paleontology*. 20 (S3): 69

2000. Kaiser, T.M., R.L. Bernor, M. Fortelius, & **R.S. Scott**. Ecological diversity in the Neogene genus *Hippotherium* (Perissodactyla, Equidae) from the late Miocene of Central Europe. *Journal of Vertebrate Paleontology*. 20(3) Suppl.: 51

\*2000. **Scott, R.S.**, R. Bernor, & T. Kaiser. Comparative paleoecology of *Dryopithecus* and *Ankarapithecus*. *American Journal of Physical Anthropology*. 111 (S30): 276.

1999. **Scott, R.S.**, M. Armour-Chelu, R. Bernor, J. Kappelman, & J. Kelley. Comparative paleoecology of *Ankarapithecus meteai* and *Sivapithecus parvada*. *American Journal of Physical Anthropology*. 108 (S28): 246.

1999. Kappelman, J., A. Gordon, D. Johnson, T. Ryan, **R.S. Scott**, & E. Seiffert. A computer program for delivering virtual multimedia examinations across secure networks and the web. *American Journal of Physical Anthropology*. 108 (S28): 164.

1998. Kappelman, J., C. Bramblett, M. Feseha, A. Gordon, K. McCardel, J. Pearlstein, T. Ryan, **R.S. Scott**, E. Seiffert, S. Tecot, & G. Weiner. Using the computer for interactive testing: a multimedia application in primatology. *American Journal of Primatology*. 45: 189-190.

1998. Kappelman, J., C. Bramblett, A. Gordon, K. McCardel, T. Ryan, **R.S. Scott**, E. Seiffert, & G. Weiner. Virtual multimedia examinations: integrating images, video, and animations into an interactive testing program. *American Journal of Physical Anthropology*. 105 (S26): 132-133.

1997. **Scott, R.S.** Relative faunal abundance and body size distribution of large mammals from the Sinap Formation, Turkey. *American Journal of Physical Anthropology*. S24: 207-208.



\*1996. **Scott, R.S.**, J. Kappelman, & J. Kelley. The paleoenvironment of *Sivapithecus parvada*. *American Journal of Physical Anthropology*. S22: 212.

1996. Ryan, T.M., **R.S. Scott**, A. Duncan, J. Kappelman, L. Shapiro, S. Grant, K. Lewis, & R. Stearman. Finite element analysis using a 3-D laser scanner. *American Journal of Physical Anthropology*. S22: 206.

1996. Morf, L.A., T.M. Ryan, **R.S. Scott**, & J. Kappelman. Defining long bone curvature with a 3-D laser scanner. *American Journal of Physical Anthropology*. S22: 172-173.

### Electronic Publications, Not Refereed

2020. Boss, O. & **R. S. Scott** [Rutgers Anthropology]. Pestilence: The 1918 Flu Pandemic [Video]. YouTube. (2020, December 3). [https://www.youtube.com/watch?v=1KN\\_B5UxBNM](https://www.youtube.com/watch?v=1KN_B5UxBNM)

2020. Boss, O. & **R. S. Scott** [Rutgers Anthropology]. Pestilence: Chickenpox vs the Measles [Video]. YouTube. (2020, November 19). [https://www.youtube.com/watch?v=1KN\\_B5UxBNM](https://www.youtube.com/watch?v=1KN_B5UxBNM)

1999. Kappelman, J., **R.S. Scott**, C. Bramblett, T.M. Ryan, & A.D. Gordon. The Archaeological Record. In: Virtual Laboratories for Physical Anthropology on CD ROM (J. Kappelman, editor), Second Edition. Wadsworth Publishing Co.

1999. Kappelman, J., **R.S. Scott**, C. Bramblett, A.D. Gordon, & T.M. Ryan. Genetics and Evolution of Human Populations. In: Virtual Laboratories for Physical Anthropology on CD ROM (J. Kappelman, editor), Second Edition. Wadsworth Publishing Co.

1998. Kappelman, J., **R.S. Scott**, C. Bramblett, T.M. Ryan, E. Seiffert, & G. Weiner. The Origin and Evolution of Modern Humans. In: Virtual Laboratories for Physical Anthropology on CD ROM (J. Kappelman, editor). Wadsworth Publishing Co.

1998. Kappelman, J., A. Duncan, **R.S. Scott**, L. Shapiro, C. Bramblett, T.M. Ryan, E. Seiffert, & G. Weiner. Primates in Motion. In: Virtual Laboratories for Physical Anthropology on CD ROM (J. Kappelman, editor). Wadsworth Publishing Co.

1998. Kappelman, J., T.M. Ryan, C. Bramblett, **R.S. Scott**, E. Seiffert, & G. Weiner. Fossil Hominids of the Genus *Homo*. In: Virtual Laboratories for Physical Anthropology on CD ROM (J. Kappelman, editor). Wadsworth Publishing Co.

1998. Kappelman, J., C. Kirk, E. Seiffert, C. Bramblett, T.M. Ryan, **R.S. Scott**, & G. Weiner. The Evolution of Bipedalism. In: Virtual Laboratories for Physical Anthropology on CD ROM (J. Kappelman, editor). Wadsworth Publishing Co.

1998. Kappelman, J., C. Kirk, E. Seiffert, C. Bramblett, T.M. Ryan, **R.S. Scott**, & G. Weiner. The Australopithecines. In: Virtual Laboratories for Physical Anthropology on CD ROM (J. Kappelman, editor). Wadsworth Publishing Co.

1998. Kappelman, J., T.M. Ryan, E. Seiffert, C. Bramblett, **R.S. Scott**, & G. Weiner. Primate Evolution. In: Virtual Laboratories for Physical Anthropology on CD ROM (J. Kappelman, editor). Wadsworth Publishing Co.

1998. Bramblett, C., J. Kappelman, C. Kirk, , T.M. Ryan, **R.S. Scott**, E. Seiffert, & G. Weiner. Primate Behavior: The Ethogram. In: Virtual Laboratories for Physical Anthropology on CD ROM (J. Kappelman, editor). Wadsworth Publishing Co.

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

1998. Kappelman, J., C. Bramblett, T.M. Ryan, **R.S. Scott**, E. Seiffert, & G. Weiner. Introduction to the Primates. In: Virtual Laboratories for Physical Anthropology on CD ROM (J. Kappelman, editor). Wadsworth Publishing Co.

1998. Kappelman, J., A. Duncan, **R.S. Scott**, L. Shapiro, C. Bramblett, T.M. Ryan, E. Seiffert, & G. Weiner.

Levers & Limbs: Introduction to Primate Functional Morphology. In: Virtual Laboratories for Physical Anthropology on CD ROM (J. Kappelman, editor). Wadsworth Publishing Co.

## Other Publications

2004. Kaiser T.M., R.L. Bernor, J. Franzen, **R.S. Scott**, & N. Solounias. *Hippotherium kammerschmittae* n. sp. instead of *Hippotherium kammerschmitti* Kaiser, Bernor, Franzen, Scott and Solounias 2003. Nomenclatural Notes, Senckenbergiana lethaea 84: (1/2) 383-384.

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## Conference Presentations, Lectures, Demonstrations

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### Keynote or Plenary Addresses

March 2014. *Surfaces in the biological and paleontological sciences*. 4th International Conference on Surface Metrology. Hamburg, Germany.

### Papers, Abstracts, and Lectures

2016. Wright, B.W., K.A. Wright, M. Fogaça, D. Fagaszy, C. Ross, A. van Casteren, **R.S. Scott**, & D.S. Strait. Anterior dental ingestion in *Sapajus*: Linking craniofacial form and food mechanics. *Joint Meeting of the International Primatological Society and the American Society of Primatologists (Chicago, Illinois)*. August 21-27, 2016.

2015. Scott, R.S. Hominin carnivory, tapeworms, and cooking: zoonoses in the Paleoanthropocene. Invited paper for “The Zoonotic Condition, Part I: Pathogeneses of the Anthropocene.” *114th Annual Meeting of the American Anthropological Association (Denver Colorado, New Jersey)*. November 18-22, 2015.

2014. Janiak, M.C. & R.S. Scott. Diet and the evolution of digestive enzymes in New World Monkeys. *1st Meeting of the Nor'Eastern Evolutionary Primatology Group (New Brunswick, New Jersey)*. November 7-8, 2014.

2014. Ha, H., K. L. DeRosa, R.S. Scott, & J.Xing. Global survey of PGA indicates high CNV variability in human populations. *1st Meeting of the Nor'Eastern Evolutionary Primatology Group (New Brunswick, New Jersey)*. November 7-8, 2014.

2014. Coiner-Collier, S., **R. S. Scott**, & E.R. Vogel. Food mechanical properties influence feeding time in primates. *1st Meeting of the Nor'Eastern Primate Ecology, Evolution & Behavior Group (New Brunswick, New Jersey)*. November 7-8, 2014.

2013. **Scott, R.S.**, D. DeMiguel, T. Kaya, D.S. Kostopoulos, D.S., S. Mayda, & G. Merceron. Ecology of European hipparionines and the diversity of Late Miocene hominids in Western Eurasia. *14th Congress of the Regional Committee on Mediterranean Neogene Stratigraphy (Istanbul, Turkey)*. September 8-12, 2013.

2013. DeRosa, K., H.-S. Ha, **R.S. Scott**, J. Xing,. Survey of PGA indicates high CNV variability in human populations. *American Association of Physical Anthropologists Committee on Diversity Undergraduate Research Symposium (Knoxville, Tennessee)*. April 10, 2013.

2007. Brown, C.A., T.S. Bergstrom, B.E. Childs, B.M. Powers, A. Yadav, **R.S. Scott**, & Ungar, P.S. Characterizing anisotropy using length-scale fractal analysis. *11th International Conference on Metrology and Properties of Engineering Surfaces (Huddersfield, UK)*. July 17-20, 2007.

\*2004. Bernor, R.L., T.M. Kaiser, & **R.S. Scott**. Systematic, biogeographic and paleoecological background to late Miocene Eurasian and African hipparion evolution. *32<sup>nd</sup> International Geological Congress (Firenze, Italy)*. August 20-28, 2004.

2003. Bernor, R.L., T.M. Kaiser, **R.S. Scott**, & M.O. Woodburne. Some recent advances in old world hipparionine evolution, biogeography and paleoecology. *EEDEN - Environments and Ecosystem Dynamics of the Eurasian Neogene, Birth of the New World Stará Lesná, Univerzita Komenského Bratislava, 12-13*.

\*2002. Maga, M. & **R.S. Scott**. Ecomorphological investigation of “*Hipparion*” metapodials from

Akkasdagi, Kaman. *1<sup>st</sup> International Symposium of Istanbul Technical University, Faculty of Mines on Earth Sciences and Engineering.*

2000. Bernor, R.L., T.M. Kaiser, & **R.S. Scott**. Old World hipparion evolution: the datum, early provinciality and divergence in adaptations. *Environments and Ecosystem Dynamics of the Eurasian Neogene (EEDEN). 'State of the Art' Workshop, Lyon, France.*

2000. Kaiser, T.M., R.L. Bernor, M. Fortelius, & **R.S. Scott**. Ecological diversity in the Neogene genus *Hippotherium* (Equidae, Perissodactyla). *European workshop on Vertebrate Palaeontology Abstracts*. 5: 39. (Karlsruhe, June 27-July 1, 2000)

### **Other Presentations, Lectures, Demonstrations**

November 2013. Panel Chair. Food and the Human Experience: A Community Conversation and Film Screening.

April 2013. Organizer and Presenter. Human Evolution and Primate Diversity. 4th Grade Assembly, Bartle Elementary School.

March 2013. Panelist. Responsible and Ethical Research in International Settings. Rutgers Centers for Global Advancement and International Affairs.

November 2012. Presentation for East Java Ministry of Education delegation. Rutgers Centers for Global Advancement and International Affairs.

May 2012. Raw, Rare, or Well Done: How Our Ancestors' Diet Shaped Human Evolution. Rediscover Rutgers. Rutgers Foundation.

January 2011. Hominin Dietary Variability. Saturday Science Lecture Series. New Jersey State Museum.

April 2010. Exploring Our Family Tree. Rutgerscience Saturday. 4-H Youth Development and Rutgers Geology Museum.

November 2008. Crossroads to Africa. Friends of the Rutgers Geology Museum.

### **Invited Addresses**

September 2016. Nutcracker Man or the Swamp Thing? Reconstructing Megadont Hominin Diets. Department of Earth and Planetary Sciences Lecture Series. Vanderbilt University.

October 2011. Quantifying Dental Microwear Surface Textures. 1<sup>st</sup> Surface Metrology Seminar for the Americas 2011. Center for Surface Metrology in the Americas. Worcester Polytechnic Institute.

February 2009. Hominin Diets and Dental Microwear. Charles Darwin Celebration Lecture. State University of New York, Albany.

October 2008. Discussant. "Excavating Extinction: Narratives and Fossil Records." Extinction Encounters: Vanishing Forms, Human Rights, and the Ethics of Retrieval (A public conference sponsored by Department of Anthropology (New Brunswick) and The Center for the Study of Genocide and Human Rights (Newark), Rutgers)

February 2009. Crossroads to Africa. Charles Darwin Celebration Lecture. State University of New York, Albany.

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## **Teaching Activities**

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### **Courses Taught**

|Xenoanthropology, Undergraduate (SASHP Interdisciplinary Seminar), Rutgers

|Evolution of the Hominidae, Graduate, Rutgers

|Primates, Ecology, and Conservation in Indonesia, Study Abroad, Rutgers

Evolution of Hominin Diet, Graduate, Rutgers

Fossil Hominin Anatomy, Upper-Level Undergraduate, Rutgers

Quantitative Methods in Evolutionary Anthropology, Upper-Level Undergraduate, Rutgers

Extinction, Undergraduate (SAS Signature Course), Rutgers

Fossil Apes, Undergraduate (Special Darwin Celebration Course), Rutgers

Introduction to Human Evolution, Undergraduate, Rutgers

Research Methods and Design in Evolutionary Anthropology, Graduate, Rutgers

Human Osteology, Upper-Level Undergraduate, Rutgers

Laboratory for Human Osteology, Upper-Level Undergraduate, Rutgers

Paleoecology, Graduate, Rutgers

Introduction to Physical Anthropology, Undergraduate, University of Texas at Austin

### **Special Courses Taught**

Undergraduate, SAS Signature Course: Extinction, Rutgers, Fall 2009, Fall 2010, Fall 2011, Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016

Undergraduate, Special Darwin Celebration Course: Fossil Apes (students developed Museum Exhibit for Darwin Celebration, supported by Academic Engagement), Rutgers, Summer 2009

International Undergraduate, Short Course: Primate, Ecology, and Conservation (co-instructor and participant), UNAS-Rutgers-USAID, Summer 2013

### **Co-curricular Programming**

2017 | Field trip and scavenger hunt at the American Museum of Natural History. One-hundred thirty student participants. Funded by Rutgers Division of Academic Engagement and Programming.

2015 | Field trip and scavenger hunt at the American Museum of Natural History. One-hundred thirty student participants. Funded by Rutgers Division of Academic Engagement and Programming.

2013 | Field trip and scavenger hunt at the American Museum of Natural History. One-hundred thirty student participants. Funded by Rutgers Division of Academic Engagement and Programming.

2009-ongoing | Signature Course Lecture Series Host. Host of guest lecture and dinner with undergraduate students and guest lecturer. Eight events since 2009. Funded by Rutgers Division of Academic Engagement and Programming.

### **Curricular Development - Courses and Programs Developed**

2020-ongoing | Developing study abroad course on paleontology in France.

2013-2014 | Co-development of study abroad program in Indonesia which ran Summer 2014.

2012-ongoing | Proposer and initial co-director of a "Certificate in Evolutionary Medicine" program, a SAS / SEBS cooperative effort. Approved May 2012.

2012 | Development of undergraduate course "Evolution of Human Diet"

2009-2011 | Development of undergraduate course "Quantitative Methods in Evolutionary Anthropology"

2009-2010 | Proposer and co-developer of SAS Signature Course "Extinction"

1998-1999 | Major contributor/author of nationally distributed "Virtual Laboratories for Physical Anthropology on CD ROM (J. Kappelman, editor) Wadsworth Publishing Co."

### **Development of Audio-visual, Media, and Computer Materials**

2020-ongoing | Director of the Four Horseman video project, a science communication effort linked to the Signature course, "Extinction"

1999-2000 | Co-developer of *Virtual Exams*, a software package for preparing and administering exams with multimedia content, funded by the National Science Foundation (PI: John Kappelman)

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### **Editorial Activities**

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#### **Editorship of Scholarly or Professional Journals**

2010-2012 | Associate Editor, *Journal of Human Evolution*, Elsevier

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### **Service**

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#### **Contributions to the Advancement of the Academic Profession**

2004-ongoing | Reviewed manuscripts for:

- *Biology Letters*
- *PLoS ONE*
- *Nature Communications*
- *Journal of the Royal Society Interface*
- *Journal of Human Evolution*
- *American Journal of Physical Anthropology*
- *The Anatomical Record*
- *Palaeogeography, Palaeoclimatology, Palaeoecology*
- *Geobios*
- *Frontiers in Zoology*
- *Scanning*
- *Neues Jahrbuch für Geologie und Paläontologie*

2000 | Chaired graduate student review panel for University Coop Graduate Research Fellowships, The University of Texas at Austin.

2011-ongoing | Reviewed grants for:

- *National Science Foundation*
- *Deutschen Forschungsgemeinschaft*
- *The Leakey Foundation*

1999 | Chaired graduate student review panel for Liberal Arts Graduate Research Fellowships, The University of Texas at Austin.

1999 | Proposed, designed, and implemented program awarding graduate student research grants for pilot projects funded by the College of Liberal Arts, The University of Texas at Austin.

#### **University-wide Service**

2015-ongoing | Executive Council Representative, Rutgers AAUP-AFT

- 2017-2019 | Secretary, Executive Council, Rutgers AAUP-AFT
- 2017-2019 | Chair, Academic Freedom Committee, Rutgers AAUP-AFT
- 2013-2014 | "Transforming the student experience" Strategic Planning Committee
- 2013-2015 | Committee on Online Teaching, Rutgers AAUP-AFT
- 2012-2016 | Assessment Analytics Committee

### **School of Arts and Sciences**

- 2009 | Geology Museum Faculty Advisory Committee (*ad hoc*)
- 2008 | Fulbright Interview Committee

### **Department of Anthropology**

- 2017-2017 | Peer Evaluation Committee
- 2013-ongoing | Undergraduate Program Committee
- 2011-2012 | Undergraduate Program Committee
- 2011-2012 | Graduate Admissions Committee
- 2010 | Departmental Executive Committee
- 2008-2009 | Co-authored Evolutionary Anthropology part of departmental strategic plan.
- 2008-2009 | Undergraduate Program Committee
- 2008 | Arranged the transfer of a significant teaching collection of human osteological remains from the University of Maryland Medical School and Maryland State Anatomy Board for use in undergraduate and graduate courses. The fair market value of this collection is about \$30,000 and it is a significant addition to the department teaching collections.

### **Search Committees**

- 2012 | Search for paleoanthropologist / archaeologist with expertise in Africa.
- 2008 | Search for anthropologist with expertise in Latin America.

### **Graduate Faculty of Anthropology**

- 2009 | Graduate Executive Committee

### **Graduate Program in Ecology and Evolution**

- 2015-2016 | Graduate Admissions Committee

### **Center for Human Evolutionary Studies**

- 2012-2017 | Executive Board, Center for Human Evolutionary Studies
- 2008 | Zelnick Award Committee, Center for Human Evolutionary Studies

### **Interdisciplinary Committee in Evolutionary Medicine**

- 2012-ongoing | Founding Member and Initial Co-Director, Interdisciplinary Committee in Evolutionary Medicine. *Ad hoc* committee formed to initiate a SAS / SEBS cooperative program for a "Certificate in Evolutionary Medicine." Program was approved by SAS and SEBS as of May 2012.

### **Service to Other Universities**

- 2000-2002 | Co-Chair, Graduate Student Assembly, The University of Texas at Austin

### **Service to Other Public Bodies**

## Students Supervised

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### Doctoral Dissertations Supervised

Andrew Schwartz, Department of Anthropology. Topic on paleocology of Paleocene-Eocene Thermal Maximum. Ph.D. anticipated May 2025.

Anissa Speakman, Department of Anthropology. Topic on primate copulatory dialogue. Ph.D. anticipated May 2025.

Fred Foster, Department of Anthropology. "Microstructure and Mechanical Properties of Primate Dental Enamel." ABD Spring 2017. Ph.D. anticipated October 2021.

Mareike Janiak, Department of Anthropology. "Adaptations to Insectivory in Digestive Enzymes of New World Primates." ABD Fall 2014. Ph.D. awarded May 2018."

Darcy Shapiro, Department of Anthropology. "Characterizing Density and Anisotropy in the Trabecular Architecture of the Primate Ilium and Ischium." Ph.D. awarded October 2016.

Susan Coiner-Collier, Department of Anthropology. "Feeding Ecology and the Trabecular Structure of the Mandibular Condyle in Extant Primates." Ph.D. awarded October 2015.

Kari Prassack, Department of Anthropology. "The Paleoenvironmental Utility of Fossil Birds from Bed I and Lowermost Bed II (Late Pliocene), Olduvai Gorge, Tanzania." Ph.D. awarded May 2012.

### Masters Degree Students Supervised

Pam Weis, Department of Anthropology. Prospectus on communication of evolutionary theory to different audiences. M.Phil. awarded January 2015.

### Service on Doctoral Dissertation Committees at Rutgers

Michelle Night-Pipe, Department of Anthropology. "Intergroup Bias and Racial Conflict on the Northern Plains." Served on Dissertation Proposal Defense Committee. Ph.D. anticipated January 2021.

LaShanda Williams, Ecology & Evolution Graduate Program. Co-supervisor with Siobain Duffy. Ph.D. awarded October 2019.

Tim Bransford, Department of Anthropology. "The Energetic and Nutritional Costs of Motherhood in Wild Bornean Orangutans (*Pongo pygmaeus wurmbii*)."

Supervised field statement entitled "How big is it and how fast does it happen? A discussion on primate life histories and energetics." Served on Dissertation Proposal Defense Committee. Ph.D. awarded October 2019.

Shauhin Alavi, Department of Anthropology. An investigation into cognition and nutritional balancing in orangutans. Served on Dissertation Proposal Defense Committee. Ph.D. awarded October 2018.

Sarah Hlubik, Department of Anthropology. "Finding Prometheus: The Search for Fire in the Early Pleistocene at FxJj20 AB, Koobi Fora, Kenya." Served on Dissertation Proposal Defense Committee. Ph.D. awarded January 2018.

Emily Aronoff, Department of Anthropology. "Patrilineal Kinship in a Matrilocal Society of Olive Baboons (*Papio hamadryas anubis*) in Kenya." Supervised field statement entitled "The Effect of Kinship on Behavior in Nonhuman Primates." Served on Dissertation Proposal Defense Committee. Ph.D. awarded January 2016.

Robert Lynch, Department of Anthropology. "Evolution of Life History Traits in Iceland: 1650-Present." Served on Dissertation Proposal Defense Committee. Ph.D. awarded May 2014.

Lisa Danish, Department of Anthropology. " 'Following' An Alternative Mating Strategy of Male Olive

Baboons (*Papio hamadryas anubis*). Served on Dissertation Proposal Defense Committee. Ph.D. awarded May 2013.

Helen Wasielewski, Department of Anthropology. "Social Learning Mechanisms of Cultural Evolution." Ph.D. awarded December 2012.

Jay Reti, Department of Anthropology. "Methods for Determining Differential Behaviors in Stone Tool Production and Application to the Oldowan of Olduvai Gorge, Tanzania and Koobi Fora, Kenya" Supervised field statement on "Cladistic Classification and Darwinian Archaeology." Served on Dissertation Proposal Defense Committee. Ph.D. awarded May 2013.

Michael Pante, Department of Anthropology. "The Larger Mammal Fossil Assemblages from Beds III and IV, Olduvai Gorge, Tanzania: Implications for the Feeding Behavior of *Homo erectus*." Ph.D. awarded May 2010.

Adam Heinrich, Department of Anthropology. "A Zooarchaeological Investigation Into the Meat Industry at the Cape of Good Hope by the Dutch East India Company in the Seventeenth and Eighteenth Centuries." Ph.D. awarded May 2010.

### **Service as Doctoral Examiner at Rutgers**

Elizabeth Ballare, Ecology & Evolution Graduate Program. Doctoral examiner for oral comprehensive exam.

### **Service on Master's Degree Committees**

Rene Studer-Halbach, Department of Anthropology. Supervised field statement entitled "Hominid and Hominin Diet from 11 – 1 Million Years Ago." Served on Dissertation Proposal Defense Committee. M.Phil awarded.

Rolando de Aguiar, Department of Anthropology. Prospectus on religion and social evolution. Served on Prospectus Defense Committee. M.Phil. awarded 2014.

Melanie Crisfield, Department of Anthropology. Prospectus on the kinematics of bipedality. Served on Prospectus Defense Committee. M.Phil. awarded May 2014.

Sarah Hlubik, Department of Anthropology. "GIS Spatial Analysis of FxJj20 AB, Koobi Fora, Kenya, with Implications on Modern Behavior and Fire Control" M.A. defense completed February 2013. Defense passed. MA anticipated December 2013.

Jane Steele, Department of Anthropology. Completed by field statements, supervised field statement on "Reconstruction of Past Environments Using Ecomorphology of Fossil Assemblages." M.A. awarded December 2010.

### **Field Statements Supervised**

Fred Foster, "Growth and Development of Osteological Tissue" (1/5/17)

Rene Studer-Halbach, "Hominid and Hominin Diet from 11 - 1 Million Years Ago" (3/25/16)

Tim Bransford, "How big is it and how fast does it happen? A discussion on primate life histories" (12/11/15)

Mareike Janiak, "Digestive enzymes of human and non-human primates" (4/28/14)

Susan Coiner-Collier, "HRXCT Analysis of Trabecular Bone" (9/26/12)

Darcy Shapiro, "Three-Dimensional Geometric Morphometrics" (11/30/2011)

Jane Steele, "Reconstruction of Past Environments Using Ecomorphology of Fossil Assemblages" (11/23/10)

Emily Aronoff, "The Effect of Kinship on Behavior in Nonhuman Primates" (3/9/10)

Jay Reti, "Cladistic Classification and Darwinian Archaeology" (12/1/09)



## Graduate Students Supervised for Independent Studies

Jane Steele, Independent Study: "Ecomorphology of Bovid Phalanges"

Pam Weis, Independent Study: "Microscale Distinctions between Canid Tooth Scores and Stone Tool Cut Marks"

## Undergraduate Honors Theses Supervised

Olivia Boss, Anthropology Honors Thesis: "Comparative dental microwear textural analysis: Pitheciines, *Alouatta*, and *Ateles*." Henry Rutgers Thesis Award, Rutgers Anthropology Honors Symposium Award, and Highest Honors awarded May 2020.

Claire Marcil, Anthropology Honors Thesis: "Dental microwear of *Trichechus manatus* and its implications for the diet of *Paranthropus boisei*." Honors awarded May 2018.

Veronica Mason, Anthropology Honors Thesis: "Relevance of Metabolic Function in Primate Cranial Airway Formation." Henry Rutgers Thesis Award and Highest Honors awarded May 2015.

Caitlin McCarthy, Anthropology Honors Thesis: "Comparison of Skeletal Fracture Patterns from a Low Explosive to a High Explosive." Rutgers Anthropology Honors Symposium Prize 2nd Prize and High Honors awarded May 2015.

Emily Wahler, Anthropology Honors Thesis: "The Bioavailability of Curcumin in Jamu, Traditional Indonesian Health Tonics, Using the TIM-1 System to Replicate Human Digestion." High Honors awarded May 2015.

Sonia Kuismanen, Anthropology Honors Thesis: "Correlation between Ungulate Metapodial Morphology and Habitat." Rutgers Anthropology Honors Symposium Prize and High Honors awarded May 2014.

John Saflarske, Anthropology Honors Thesis: "Bone Surface Modification at the Late Archaic Cole Gravel Pit Site, Livingston County, New York." Honors awarded May 2013.

Kate DeRosa, Anthropology Honors Thesis: "Global Survey of PGA Indicates High CNV Variability in Human Populations." Highest Honors awarded May 2013.

Nicholas P. Triozzi, Anthropology Honors Thesis: "Energetic Costs of Mastication and Model Hominin Food Processing Behaviors." Henry Rutgers Thesis Award and Highest Honors awarded May 2011.

Amanda Giesler, George H. Cook Honors Thesis: "An Ecomorphological Comparison of the Late Miocene Mammalian Communities of Turkey and Greece." Honors awarded May 2010.

Stephanie Green, Anthropology Honors Thesis: "Identifying Characteristics of the Distal Radius that Reflect Knuckle-Walking." High Honors awarded May 2010.

Stephanie Morell, Anthropology Honors Thesis: "Native American and Anthropologist Interactions: NAGPRA and the Changing Face of Native American Rights." Honors awarded May 2009.

## Service on Undergraduate Honors Thesis Committees

Daniel Naumenko, Anthropology Honors Thesis: "Linking Dietary Ecology, Immune Function, and Air Pollution to Oxidative Stress in Wild Bornean Orangutans (*Pongo pygmaeus wurmbii*)." Highest Honors awarded May 2017.

Lani Wyman, Anthropology Honors Thesis: "Ancient Middle Stone Age climates at SM-1 in NW Ethiopia As Revealed by Stable Isotope Sclerochronology." Highest Honors awarded May 2017.

Devin Ward, Anthropology Honors Thesis: "Osteological Analysis of Juvenile Skeletal Remains: Tiber River Valley, Lazio Region, Vacone, Italy." Henry Rutgers Thesis Award and Highest Honors awarded May 2014.

Rachel Sender, Anthropology Honors Thesis: "The Paleoecological Reconstruction of Area 123 and Area 6/6A, Koobi Fora, and the Implications for the Habitat Preferences of *Homo* and *Paranthropus boisei*." High Honors awarded May 2013.

Amanda Murillo, Anthropology Honors Thesis: "Methods for Identifying Weaponry Marks on Bone: Distinguishing Sword Classes and Projectiles by Visual 3-D Image Comparison." High Honors awarded May 2013.

Lauren Mairella, Anthropology Honors Thesis: "Neanderthal Cranial Variability." Highest Honors awarded May 2012.

Sarah Pendergraph, Anthropology Honors Thesis: "Effects of Birth Experiences on Bonding." Highest Honors awarded May 2011.

Kevin Rosenfield, Anthropology Honors Thesis: "The Relationship between Male Sexual Orientation and Men's Preferences for Sexually Dimorphic Faces." High Honors awarded May 2011.

Evan Bird, Anthropology Honors Thesis: "Characteristics of Close Contact .22-Caliber Gunshot Entrance and Exit Defects in Long Bones." Highest Honors awarded May 2010.

Andrew Du, Anthropology Honors Thesis: "The Archaeological Visibility of Stone Anvils and their Associated Surface Traces." Highest Honors awarded May 2009.

### **Other Undergraduate Mentoring**

Alex Vindas Cruz, Aresty Research Assistantship: "Repeatability of Trabecular Bone Volume Measures" (2013-2014)

Robyn Schreiber, Aresty Research Assistantship: "Mechanical Properties of Human Diet" (2013-2014)

Emily Wahler, Aresty Research Assistantship: "Distinguishing Cut and Tooth Marks on Bone" (2013-2014)

Lauren Blaha, Aresty Research Assistantship: "Distinguishing Cut and Tooth Marks on Bone" (2013-2014)

Zilin Zhou, Aresty Research Assistantship: "Food Mechanical Properties" (2012-2013)

Ben Keepers, Aresty Research Assistantship: "Distinguishing Cut and Tooth Marks on Bone" (2012-2013)

Jennifer Miguel-Hellman, Internship and Independent Study: Osteology Collections Management, Department of Anthropology (3 credits)

Christine Tirajoh, Internship and Independent Study: Osteology Collections Management, Department of Anthropology (3 credits)

Katie Kolodziej, Internship and Independent Study: Osteology Collections Management, Department of Anthropology (3 credits)

Joshua Haimowitz, Independent Study: "Energetic Implications of Variations in Lower Limb Length." (3 credits)

Hanna Canfield, Aresty Research Assistantship: "Fauna and Paleoecology of Old World Fossil Ape Sites" (2009-2010)

Katie Kolodziej, Aresty Research Assistantship: "Paleoecology and Ecomorphology: Inferences based on 3D Scanning and Comparative Morphology" (2009-2010)

Scott Baptista, Aresty Research Assistantship: "Paleoecology and Ecomorphology: Inferences based on 3D Scanning and Comparative Morphology" (2009-2010)

Caitlin McCabe, Aresty Research Assistantship: "Paleoecology and Ecomorphology: Inferences based on 3D Scanning and Comparative Morphology" (2009-2010)

Ryan Wernlund, Aresty Research Assistantship: "The Upper Arm and Locomotion: Inferences based on 3D Scanning and Comparative Morphology" (2009-2010)

Patricia Schwindinger, Aresty Research Assistantship: "The Upper Arm and Locomotion: Inferences based on 3D Scanning and Comparative Morphology" (2009-2010)

Evan Bird, Internship: Forensic Sciences, New Jersey State Police (3 credits)

Lily Xie, Internship: Soft-tissue Reconstruction, American Museum of Natural History (5 credits)

### **Academic Advisement**

2012-present: SAS Honors Program Mentor

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### **Memberships**

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#### **Membership/Offices Held in Scholarly and Professional Societies**

1996-ongoing | Lifetime Member, American Association of Physical Anthropologists.