

# Adam D. Gordon

## Curriculum Vitae

(current as of May 26, 2017)

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Department of Anthropology

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### Earned Degrees

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

Dissertation: Evolution of body size and sexual size dimorphism in the Order Primates: Rensch's rule, quantitative genetics, and phylogenetic effects

Committee: John Kappelman (Chair), Claud Bramblett, William Jungers, Deborah Overdorff, Eric Pianka

**M.A.**, 1999, Anthropology, The University of Texas at Austin

Thesis: Sex-specific patterns in the allometric scaling of articular surface area in *Papio cynocephalus* ssp.

**B.S. cum laude**, 1995, Individual Studies: Paleoanthropology, University of Maryland College Park

### Professional Positions

*Associate Professor*, Department of Anthropology, University at Albany - SUNY (Fall 2015-Present)

*Director*, Human Biology Undergraduate Major, University at Albany - SUNY (Jan. 2016-May 2017)

*Associate Editor*, Journal of Human Evolution (Jan. 2015-Present)

*Assistant Professor*, Department of Anthropology, University at Albany - SUNY (Fall 2008-Summer 2015)

*Postdoctoral Research Fellow*, Center for the Advanced Study of Hominid Paleobiology, Department of Anthropology, George Washington University (Mentor: Bernard Wood) (Fall 2004-Summer 2008)

### Scholarly Activity

#### Research Interests

- Relative contributions of sexual selection and natural selection on sex-specific patterns of variation in size, shape, scaling, and growth in human and primate evolution
- Sex-specific variation in life history parameters due to ecological effects in living primate populations
- Monte Carlo and exact resampling approaches to assessing size and shape variation in the hominin fossil record
- Phylogenetic comparative methods as applied to the evolution of size, shape, and energetics in mammals, particularly the Order Primates and Tribe Hominini
- Databases/data management of physical and electronic research collections in biological anthropology

#### Peer-Reviewed Book Chapters

2013

1. **Gordon AD**. Sexual size dimorphism in *Australopithecus*: current understanding and new directions. In Reed KE, Fleagle JG, and Leakey RE, eds.: The Paleobiology of *Australopithecus*. Vertebrate Paleobiology and Paleoanthropology Series. Springer. pp.195-212.

#### Peer-Reviewed Journal Articles <sup>(<sup>[S]</sup> indicates a publication with a student first author)</sup>

2017

38. Raichlen DA, **Gordon AD**. Interpretation of footprints from site S confirms human-like bipedal biomechanics in Laetoli hominins. *Journal of Human Evolution*. 107:134-138.

**2016**

37. Borries C, Sandel AA, Koenig A, Fernandez-Duque E, Kamilar JM, Amoroso CR, Barton RA, Bray J, DiFiore A, Gilby IC, **Gordon AD**, Mundry R, Port M, Powell LE, Pusey AE, Spriggs A, Nunn CL. Transparency, usability, and reproducibility: guiding principles for improving comparative databases using primates as examples. *Evolutionary Anthropology*. 25:232-238.
36. **Gordon AD**, Johnson SE, Louis EE Jr. Environmental correlates of body mass in true lemurs (*Eulemur* spp.). *International Journal of Primatology*. 37:89-108.
35. <sup>[S]</sup>Holmes SM, **Gordon AD**, Louis EE Jr, Johnson SE. Fission-fusion dynamics in black-and-white ruffed lemurs may facilitate both feeding strategies and communal care of infants in a spatially and temporally variable environment. *Behavioral Ecology and Sociobiology*. 70:1949-1960.
34. <sup>[S]</sup>Ledogar JA, Dechow PC, Wang Q, Gharpure PH, **Gordon AD**, Baab KL, Smith AL, Weber GW, Grosse IR, Ross CF, Richmond BG, Wright BW, Byron C, Wroe S, Strait DS. Human feeding biomechanics: performance, variation, and functional constraints. *PeerJ*. 4:e2242.
33. <sup>[S]</sup>Spriggs AN, Muchlinski MN, **Gordon AD**. Does the primate pattern hold up? Testing the functional significance of infraorbital foramen size variation among marsupials. *American Journal of Physical Anthropology*. 160:30-40.

**2015**

32. Raichlen DA, **Gordon AD**, Foster AD, Webber J, Sukhdeo SM, Scott RS, Gosman JH, Ryan TM. An ontogenetic framework linking locomotion and trabecular bone architecture with applications for reconstructing hominin life history. *Journal of Human Evolution*. 81:1-12.

**2014**

31. Pontzer H, Raichlen DA, **Gordon AD**, Schroepfer-Walker KK, Hare B, O'Neill MC, Muldoon KM, Dunsworth HM, Wood BM, Isler K, Burkart J, Irwin M, Shumaker RW, Lonsdorf EV, Ross SR. Primate energy expenditure and life history. *Proceedings of the National Academy of Sciences USA*. 111:1433-1437.
30. Raichlen DA, Wood BM, **Gordon AD**, Mabulla AZP, Marlowe FW, Pontzer H. Evidence of Lévy walk foraging patterns in human hunter-gatherers. *Proceedings of the National Academy of Sciences USA*. 111:728-733.
29. Rolian C, **Gordon AD**. Response to Almécija and Alba – on manual proportions in *Australopithecus afarensis*. *Journal of Human Evolution*. 73:93-97
28. Williams EM, **Gordon AD**, Richmond BG. Methods for increasing accuracy and force production during stone tool production. *Journal of Human Evolution*. 72:52-63.

**2013**

27. Borries C, **Gordon AD**, Koenig A. Beware of primate life history data: a plea for data standards and a repository. *PLoS ONE*. 8:e67200.
26. **Gordon AD**, Johnson SE, Louis EE Jr. Females are the ecological sex: Sex-specific body mass ecogeography in wild sifaka populations (*Propithecus* spp.). *American Journal of Physical Anthropology*. 151:77-87.
25. **Gordon AD**, Marcus E, Wood B. Great ape skeletal collections: making the most of scarce and irreplaceable resources in the Digital Age. *Yearbook of Physical Anthropology (American Journal of Physical Anthropology Supplement 52)*. 152:2-32.
24. **Gordon AD**, Wood B. Evaluating the use of pairwise dissimilarity metrics in paleoanthropology. *Journal of Human Evolution*. 65:465-477.
23. Rolian C, **Gordon AD**. Reassessing manual proportions in *Australopithecus afarensis*. *American Journal of Physical Anthropology*. 152:393-406.
22. <sup>[S]</sup>Venkataraman VV, Rolian C, **Gordon AD**, Patel BA. A resampling approach and implications for estimating the Phalangeal Index from unassociated hand bones in fossil primates. *American Journal of Physical Anthropology*. 152:280-289.

**2012**

21. <sup>[S]</sup>O'Mara MT, **Gordon AD**, Catlett KK, Terranova CJ, Schwartz GT. Growth and the development of sexual size dimorphism in lorises and galagos. *American Journal of Physical Anthropology*. 147:11-20.
20. Williams EMS, **Gordon AD**, Richmond BG. Hand pressure distribution during Oldowan stone tool production. *Journal of Human Evolution*. 48:520-532.

**2011**

19. Raichlen DA, **Gordon AD**. Relationship between exercise capacity and brain size in mammals. *PLoS ONE*. 6:e20601.
18. Raichlen DA, **Gordon AD**, Sechrest W. Bioenergetic constraints on primate abundance. *International Journal of Primatology*. 32:118-133.
17. Sherwood CC, **Gordon AD**, Allen JS, Phillips KA, Erwin JM, Hof PR, Hopkins WD. Aging of the cerebral cortex differs between humans and chimpanzees. *Proceedings of the National Academy of Sciences USA*. 108:13029-13034.

**2010**

16. <sup>[S]</sup>Griffin NL, D'Août K, Richmond B, **Gordon A**, Aerts P. Comparative *in vivo* forefoot kinematics of *Homo sapiens* and *Pan paniscus*. *Journal of Human Evolution*. 59:608-619.
15. Raichlen DA, **Gordon AD**, Harcourt-Smith WEH, Foster AD, Haas Jr. WR. Laetoli footprints preserve earliest direct evidence of human-like bipedal biomechanics. *PLoS ONE*. 5:e9769.
14. Raichlen DA, **Gordon AD**, Muchlinski MN, Snodgrass JJ. Causes and significance of variation in mammalian basal metabolism. *Journal of Comparative Physiology B*. 180:301-311.
13. <sup>[S]</sup>Williams EMS, **Gordon AD**, Richmond BG. Upper limb kinematics and the role of the wrist during stone tool production. *American Journal of Physical Anthropology*. 143:134-145.

**2009**

12. <sup>[S]</sup>Faith JT, Domínguez-Rodrigo M, **Gordon AD**. Long-distance carcass transport at Olduvai Gorge? A quantitative examination of Bed I skeletal element abundances. *Journal of Human Evolution*. 56:247-256.

**2008**

11. **Gordon AD**, Green DJ, Richmond BG. Strong postcranial size dimorphism in *Australopithecus afarensis*: results from two new multivariate resampling methods for multivariate data sets with missing data. *American Journal of Physical Anthropology*. 135:311-328.
10. **Gordon AD**, Nevell L, Wood B. The *Homo floresiensis* cranium (LB1): Size, scaling, and early *Homo* affinities. *Proceedings of the National Academy of Sciences USA*. 105:4650-4655.
9. <sup>[S]</sup>Green DJ, **Gordon AD**. Metacarpal proportions in *Australopithecus africanus*. *Journal of Human Evolution*. 54:705-719.
8. <sup>[S]</sup>Griffin N, **Gordon AD**, Richmond BG, Antón SC. Cross-sectional geometric analysis of a foot bone assemblage from Mangaia, Cook Islands. *HOMO—Journal of Comparative Human Biology*. 59:27-40.

**2007**

7. <sup>[S]</sup>Green DJ, **Gordon AD**, Richmond BG. Limb joint size proportions in *Australopithecus afarensis* and *Australopithecus africanus*. *Journal of Human Evolution*. 52:187-200.
6. <sup>[S]</sup>Faith JT, **Gordon AD**. Skeletal element abundances in archaeofaunal assemblages: Economic utility, sample size, and assessment of carcass transport strategies. *Journal of Archaeological Science*. 34:872-882.

**2006**

5. **Gordon AD**. Scaling of size and dimorphism in primates I: Microevolution. *International Journal of Primatology*. 27:27-61.

4. **Gordon AD.** Scaling of size and dimorphism in primates II: Macroevolution. *International Journal of Primatology*. 27:63-105.
3. <sup>[S]</sup>Skinner M, **Gordon AD**, Collard NJ. Mandibular size and shape variation in the hominins at Dmanisi, Republic of Georgia. *Journal of Human Evolution*. 51:36-49.

#### 2005

2. Johnson SE, **Gordon AD**, Stumpf RM, Overdorff DJ, Wright P. Morphological variation in populations of *Eulemur albocollaris* and *E. fulvus rufus*. *International Journal of Primatology*. 26:1399-1416.

#### 2003

1. Kappelman J, Rasmussen DT, Sanders WJ, Feseha M, Bown T, Copeland P, Crabaugh J, Fleagle J, Glantz M, **Gordon A**, Jacobs B, Maga M, Muldoon K, Pan A, Pyne L, Richmond B, Ryan T, Seiffert ER, Sen S, Todd L, Wiemann MC, Winkler A. Oligocene mammals from Ethiopia and faunal exchange between Afro-Arabia and Eurasia. *Nature*. 426:549-552.

#### Published Abstracts of Conference Proceedings

#### 2017

49. <sup>[S]</sup>Guthrie NK, Holmes SM, **Gordon AD**, Louis EE Jr, Johnson SE. A lack of cathemeral activity in *Varecia variegata* in Kianjavato, Madagascar. *American Journal of Physical Anthropology Supplement*. 64:205-206.
48. Ryan TM, Carlson KJ, Doershuk LJ, **Gordon AD**, Jashashvili T, Shaw CN, Stock JT. Trabecular bone structural variation in the hominin femoral head. *American Journal of Physical Anthropology Supplement*. 64:341.
47. <sup>[S]</sup>Spriggs AN, Bradley BJ, Kamilar JM, **Gordon AD**. Quantifying countershading in *Eulemur* using eigencoats. *American Journal of Physical Anthropology Supplement*. 64:367.

#### 2016

46. Plavcan JM, **Gordon AD**. Craniodental versus postcranial variables as estimators of body mass in extinct taxa. *American Journal of Physical Anthropology Supplement*. 62:253-254.

#### 2015

45. **Gordon AD**. Evaluating missing- and complete-data techniques for estimating size variation in the fossil record. *European Society for the study of Human Evolution. 5<sup>th</sup> Annual Conference*:101.
44. <sup>[S]</sup>Spriggs AN, **Gordon AD**. Eigencoats: A new method for the quantification and comparison of intra- and interspecific lemur pelage variation. *American Journal of Physical Anthropology Supplement*. 60:295.

#### 2014

43. Raichlen DA, **Gordon AD**, Scott RS, Webber J, Foster AD, Sukhdeo S, Gosman J, Ryan T. An ontogenetic framework linking locomotion and trabecular bone architecture with applications for reconstructing hominin life history. *American Journal of Physical Anthropology Supplement*. 58:215-216.
42. <sup>[S]</sup>Spriggs AN, **Gordon AD**. Red pelage color variation among primates with different visual systems. *American Journal of Physical Anthropology Supplement*. 58:245.

#### 2013

41. **Gordon AD**, Green DJ, Richmond BG. Confidence limits for mass (not skeletal) dimorphism in *Australopithecus afarensis*. *PaleoAnthropology*. 2013:A14.
40. <sup>[S]</sup>Holmes SE, **Gordon AD**, Louis EE, Johnson SE. Predicting subgroup size in a lemur with high fission-fusion dynamics. *American Journal of Physical Anthropology Supplement*. 56:151.
39. Pontzer H, Raichlen DA, **Gordon AD**, Schroeffer KK, Hare B, Dunsworth HM, Wood BM, Irwin MT, Shumaker RW, Lonsdorf EV, Ross SR. Primate energy expenditure and life history. *American Journal of Physical Anthropology Supplement*. 56:223.

**2012**

38. **Gordon AD**, Johnson SE, Louis EE. Ecological effects on sexual dimorphism: Sex-specific body mass response to climate variables in wild populations of eastern sifakas. *American Journal of Physical Anthropology* Supplement. 54:153-154.
37. <sup>[S]</sup>Spriggs AN, Muchlinski MN, **Gordon AD**. Does the primate pattern hold up? Testing the functional significance of infraorbital foramen size variation among marsupials. *American Journal of Physical Anthropology* Supplement. 54:276.
36. Zimmer BW, Liutkus CM, Carmichael SK, Richmond B, Hewitt SM, Hatala K, Harcourt-Smith W, **Gordon A**, Mana S, Brett J, Pobiner B, Green D, Metallo A, Rossi V, McGinnis KJ. A Snapshot in Time: Determining the age, environment, and social structures of early *Homo sapiens* using trace fossils in volcanoclastic rocks at the Engare Sero footprint site, Lake Natron, Tanzania. *The Geological Society of America*.

**2011**

35. **Gordon AD**, Wood B. The role of comparative databases in paleoanthropology research. *American Journal of Physical Anthropology* Supplement. 52:146.
34. Johnson SE, **Gordon AD**, Raichlen DA, Tecot S, Holmes SM, Ingraldi C, Verdolin JL. Search strategies in frugivorous lemurs in southeastern Madagascar: are Lévy walks used? *American Journal of Primatology* 73 (Supplement 1):59.
33. Richmond BG, Hatala KG, Harcourt-Smith WEH, Rossi V, Metallo A, Liutkus CM, Pobiner BL, **Gordon A**, Dingwall H, Green D, Zimmer B, Moita O, Brett J. Early modern human footprint assemblage from Engare Sero, Tanzania. *PaleoAnthropology*. 2011:A31.
32. Rolian C, **Gordon AD**, Hallgrímsson B. Assessing manual proportions in *Australopithecus afarensis* using Monte Carlo resampling. *American Journal of Physical Anthropology* Supplement. 52:256.
31. <sup>[S]</sup>Williams EM, **Gordon AD**, Richmond BG. Achieving efficiency and accuracy in Oldowan stone tool production. *American Journal of Physical Anthropology* Supplement. 52:312.

**2010**

30. **Gordon AD**. Femoral, skeletal, and body mass size variation: relationships and implications for sexual dimorphism studies. *American Journal of Physical Anthropology* Supplement. 50:113-114.
29. <sup>[S]</sup>Schroer KE, **Gordon AD**, Richmond BG. How long were australopithecine toes? *American Journal of Physical Anthropology* Supplement. 50:209.

**2009**

28. **Gordon AD**. Anthropoid body mass dimorphism: effects of taxonomic scale. *American Journal of Physical Anthropology* Supplement. 48:136.
27. <sup>[S]</sup>Griffin NL, Richmond BG, D'Août K, **Gordon AD**, Aerts P. Comparative forefoot form and function in *Homo sapiens* and *Pan*: joint orientation and in vivo kinematics. *American Journal of Physical Anthropology* Supplement. 48:139-140.
26. Plavcan JM, **Gordon A**, and Lague M. Comparative analysis of 3-D measures of postcranial dimorphism in primates. *American Journal of Physical Anthropology* Supplement. 48:212-213.
25. Raichlen DA, **Gordon AD**, Muchlinski M, Snodgrass JJ. Variation in primate basal metabolism: explanations and ecological implications. *American Journal of Physical Anthropology* Supplement. 48:216.
24. <sup>[S]</sup>Williams EM, **Gordon AD**, Richmond BG. Wrist and upper limb kinematics of amateur knappers during stone tool production. *American Journal of Physical Anthropology* Supplement. 48:272.

**2008**

23. <sup>[S]</sup>Hamm KM, **Gordon AD**, McCarthy RC, Lucas L, Strait DS. Metric variation in the genus *Homo*. *American Journal of Physical Anthropology* Supplement. 46:112.

**2007**

22. <sup>[S]</sup>Faith JT, Domínguez-Rodrigo M, **Gordon AD**. Long distance carcass transport at Olduvai Gorge? *PaleoAnthropology*. 2007:A8.
21. <sup>[S]</sup>Faith JT, **Gordon AD**. Skeletal element abundances in archaeofaunal assemblages: economic utility, sample size, and carcass transport strategies. *Society for American Archaeology*.
20. **Gordon AD**, Wood B. Human Origins Database (HOD): managing published data and specimen information for fossil and comparative collections. *American Journal of Physical Anthropology Supplement*. 44:117.
19. <sup>[S]</sup>Green DJ, **Gordon AD**. Metacarpal proportions in *Australopithecus africanus*. *American Journal of Physical Anthropology Supplement*. 44:119.
18. <sup>[S]</sup>Nevell L, **Gordon A**, Wood B. *Homo floresiensis* and *Homo sapiens* size-adjusted cranial shape variation. *American Journal of Physical Anthropology Supplement*. 44:178.
17. Plavcan JM, **Gordon AD**. Craniodental versus postcranial variables as estimators of size dimorphism in extinct taxa. *American Journal of Physical Anthropology Supplement*. 44:190.

**2006**

16. **Gordon AD**, Green DJ, Richmond BR. Size dimorphism in *Australopithecus afarensis*, modern humans, and the great apes: a non-template multivariate comparison. *American Journal of Physical Anthropology Supplement*. 42:94.
15. <sup>[S]</sup>Green DJ, **Gordon AD**, Richmond BR. Limb joint size proportions in *Australopithecus afarensis* and *Australopithecus africanus*. *American Journal of Physical Anthropology Supplement*. 42:95.

**2005**

14. **Gordon AD**. Body size dimorphism: do not correct for size. *American Journal of Physical Anthropology Supplement*. 40:108.

**2004**

13. **Gordon AD**. Selective forces and size change in the evolution of sexual size dimorphism in Primates. *American Journal of Physical Anthropology Supplement*. 38:102.

**2003**

12. **Gordon AD**. Evaluating the effects of sexual selection on sexual size dimorphism in olive baboons (*Papio anubis*) and macaques (*Macaca* sp.) using an iterative selection model. *American Journal of Primatology Supplement*. 60:52-53.
11. **Gordon AD**. Size matters – does body mass? *American Journal of Physical Anthropology Supplement*. 36:102.

**2002**

10. **Gordon AD**. Increasing population sample sizes using global skeletal size variables. *American Journal of Physical Anthropology Supplement*. 34:77.
9. Johnson S, **Gordon A**, Stumpf R. Sexual dimorphism and testicle size in white-collared lemurs. *American Journal of Physical Anthropology Supplement*. 34:90-91.
8. Ketcham R, Ryan T, Maga M, **Gordon A**. Quantification of anisotropy in trabecular bone fabrics. *American Journal of Physical Anthropology Supplement*. 34:93-94.

**2001**

7. **Gordon AD**. Sexual size dimorphism in primates: Consideration of relative variation between sexes. *American Journal of Physical Anthropology Supplement*. 32:72.

**2000**

6. **Gordon AD**. Sex-specific estimators of body mass. *American Journal of Physical Anthropology Supplement*. 30:163.

5. Kappelman J, Ryan T, Zylstra M, Alport L, DeOliveira M, **Gordon A**, Maga M, Scott R. eSkeletons: A web-based platform for learning anatomical form and function. *American Journal of Physical Anthropology Supplement*. 30:192.

#### 1999

4. **Gordon AD**. Allometric scaling of articular surface areas in *Papio anubis*. *American Journal of Physical Anthropology Supplement*. 28:138.
3. Kappelman J, **Gordon A**, Johnson D, Ryan T, Scott R, Seiffert E. A computer program for delivering virtual multimedia examinations across secure networks and the web. *American Journal of Physical Anthropology Supplement*. 28:164.

#### 1998

2. Kappelman J, Bramblett C, Feseha M, **Gordon A**, McCardel K, Pearlstein J, Ryan T, Scott R, Seiffert E, Tecot S, Weiner G. Using the computer for interactive testing: a multimedia application in primatology. *American Journal of Primatology*. 45:189-190.
1. Kappelman J, Bramblett C, **Gordon A**, McCardel K, Ryan T, Scott R, Seiffert E, Weiner G. Virtual multimedia examinations: Integrating images, video, and animations into an interactive testing program. *American Journal of Physical Anthropology Supplement*. 26:132-133.

### Multimedia Publications

#### 1999

2. Kappelman J, Scott RS, Bramblett C, **Gordon AD**, Ryan TM. Genetics and Evolution of Human Populations. In: *Virtual Laboratories for Physical Anthropology on CD ROM* (J. Kappelman, editor), Second Edition. Wadsworth Publishing Co.
1. Kappelman J, Scott RS, Bramblett C, Ryan TM, **Gordon AD**. The Archaeological Record. In: *Virtual Laboratories for Physical Anthropology on CD ROM* (J. Kappelman, editor), Second Edition. Wadsworth Publishing Co.

### Other Publications

#### 2011

1. Wood B, ed. *Wiley-Blackwell Encyclopedia of Human Evolution*. Adam Gordon: Topic editor for quantitative methods entries.

### Software/Computer Resource Development

- *Human Origins Database*, an online database of fossil hominin and extant hominoid morphometrics ([www.humanoriginsdatabase.org](http://www.humanoriginsdatabase.org)) funded by the Mathers Foundation (PI: Bernard Wood)
- Code for customized statistical analyses in the statistical programming environment *R*
- *Virtual Exams*, a software package for preparing and administering exams with multimedia content, funded by the National Science Foundation (PI: John Kappelman)

### Invited Presentations/Workshops

- Ecological signals in primate size and skeletal variation. *Penn State University, Department of Anthropology Colloquium Series, Apr. 24, 2015*.
- *Instructor, AnthroTree Workshop* (workshop on phylogenetic comparative methods), *Duke University, May 28-Jun. 1, 2014*.
- Sex-specific body size evolution in primates: model testing and fossil inference. *Yale University, Department of Anthropology Brown Beer Lecture Series, Apr. 3, 2014*.
- Identifying and addressing the challenges of Open Access data sharing. *Open Access Week 2013, University at Albany Libraries, Oct. 23, 2013*.
- *Instructor, AnthroTree Workshop* (workshop on phylogenetic comparative methods), *Amherst, Massachusetts, May 30-Jun. 3, 2012*.

- Inferring ecological selection pressures on sex-specific body size evolution in extant and extinct primates.
  - *University at Buffalo, Department of Anthropology, Anthropology Graduate Student Association Speaker Series, Apr. 27, 2012.*
  - *University at Calgary, Department of Anthropology, Visiting Speakers in Primatology Series, Feb. 3, 2012.*
- Morphological affinities of LB1: using quantitative methods to understand hominin evolution. *Rutgers University, Apr. 22, 2010.*
- *Invited participant, Sterkfontein Hominin Postcrania Workshop, University of the Witwatersrand, Johannesburg, South Africa, Jan. 5-9, 2010.*
- “Descent of Man”: Darwin and the sister lineages of *Homo sapiens* and *Homo floresiensis*. *Keynote Address, 2<sup>nd</sup> Annual Conference of the Anthropology Graduate Student Association, University of Texas at Austin, Apr. 17, 2009.*
- “Descent of Man”: the sister lineages of *Homo sapiens* and *Homo floresiensis*.
  - *University of Arizona, Department of Anthropology, Feb. 20, 2009.*
  - *University at Albany Darwin Day, Feb. 13, 2009.*
- Scale and selection pressures in the evolution of anthropoid body size dimorphism. *XXIInd Congress of the International Primatological Society, Edinburgh, Scotland, Aug. 6, 2008.*
- Sexual selection, natural selection, and size change: evolution of sex-specific size differences in living and fossil primates. *Arizona State University, School of Human Evolution and Social Change Colloquium Series, Feb. 1, 2008.*
- *Invited public panelist and workshop participant, Diversity in Australopithecus Workshop, Turkana Basin Institute, Stony Brook University, Sept. 25-29, 2007.*
- *Australopithecus afarensis and Homo floresiensis: two case studies in size and shape variation in the Hominini. University of Texas at Austin, Apr. 27, 2007.*
- New approaches to measuring variation in the hominin fossil record. *University at Albany, Nov. 10, 2006.*
- Comparative models for biological response to climate: how can we represent modern data as paleodata? *Paleoclimates and Human Evolution Workshop, Front Royal, Virginia, Nov. 18, 2005.*
- Reconstructing selection pressures on fossil primates. *New York College of Osteopathic Medicine, May 14, 2004.*
- Evolution of body size and dimorphism in Primates: phylogenetic techniques and an iterative quantitative genetics model.
  - *Duke University, Biological Anthropology and Anatomy EvMorph Seminar Series, Oct. 1, 2003.*
  - *Yale University, Department of Anthropology Brown Beer Lecture Series, Sept. 25, 2003.*
- Evaluating the effects of sexual selection on sexual size dimorphism in olive baboons (*Papio anubis*) and macaques (*Macaca* sp.) using an iterative selection model. *Graduate Student Symposium on Sexual Selection, American Society of Primatologists, July 31, 2003.*
- Statistical approaches in physical anthropology research: using research questions to select statistical techniques. *Guest Lecturer, University of Texas Anthropology Graduate Course “Field Methods in Primatology”, Nov. 6, 2002.*

### **External Research Funding**

2012	Wenner-Gren Hunt Postdoctoral Fellowship ( <i>this is a writing grant for early career, pre-tenure scholars</i> ), \$40,000, <u>Project</u> : New Approaches for Studying Hominin Size Evolution: Retrieving the Ecological Signal in Australopith Dimorphism
2007-2012	NSF Grant BCS-0647557, \$118,726, <u>Project</u> : Postcranial Dimorphism in Primates (PI: J. Michael Plavcan; Co-PIs: Adam Gordon [\$12,162], Michael Lague, and Jackson Cothren)
2006-2008	Mathers Foundation Grant, \$75,000, <u>Project</u> : Online Human Origins Database (PI: Bernard Wood, Senior Personnel: Adam Gordon)



2002-2003 NSF Dissertation Improvement Grant BCS-0137344, \$10,804, Project: Causes of sexual size dimorphism in Primates (PI: John Kappelman, Co-PI: Adam Gordon)

### **Internal Research Funding**

2014-2016 University at Albany Faculty Research Awards Program Grant, \$9,936, Project: Measuring the Effects of Human-Driven Habitat Loss in Southeastern Madagascar on Ecological Niche Partitioning in Three Sympatric Frugivorous Lemur Species

2012 University at Albany Faculty Research Awards Program Grant, \$3,024, Project: Effect of Ecological Variability in Fragmented Forest Habitats on Sex-Specific Body Size and Population Density of Wild Lemurs in Southeast Madagascar

2009-2012 University at Albany Faculty Research Awards Program Grant, \$10,000, Project: Modeling Primate Body Size and Population Density Response to Ecological Factors: Data Collection in Two Potential Long-Term Field Sites in Southeast Madagascar

1999 Liberal Arts Graduate Research Fellowship, College of Liberal Arts, The University of Texas at Austin, \$1,500, Project: Skeletal Size Dimorphism in African Apes (Pilot Data Collection for Dissertation Research)

### **Student Awards and Honors**

2003-2004 Homer Lindsey Bruce Fellowship, The University of Texas at Austin

2001-2002 University Fellowship, The University of Texas at Austin

2001 Sherwood Washburn Award, 70th Meeting of the American Association of Physical Anthropologists, Poster: “Sexual size dimorphism in primates: Consideration of relative variation between sexes”

1999-2000 University Fellowship, The University of Texas at Austin

1997-1998 Preemptive University Fellowship, The University of Texas at Austin

1995 Election to Phi Beta Kappa, University of Maryland College Park

### **Field and Museum Experience**

- Powell-Cotton Museum, Birchington, UK; Museum für Naturkunde, Berlin; Anthropological Institute and Museum, University of Zürich; Bavarian State Collection of Zoology, Munich; Royal Belgian Institute of Natural Sciences, Brussels, Belgium; Royal Museum of Central Africa, Tervuren, Belgium; Muséum National d’Histoire Naturelle, Paris, France: Primate postcranial morphometrics, *Aug.-Oct. 2015*
- Bavarian State Collection of Zoology, Munich: Primate postcranial morphometrics, *Jul. 2014*
- Hunterian Museum, Royal College of Surgeons, London: Great ape specimens annotated inventory detailing skeletal age markers, pathologies, *in vivo* trauma, and *post mortem* damage, *Aug. 2013*
- National Museum of Natural History, Smithsonian: Primate postcranial morphometrics, *Jul. 2012*
- Muséum National d’Histoire Naturelle, Paris, France: Lemur postcranial morphometrics, *Jul. 2012*
- Kianjavato Ahmanson Field Station, Madagascar: *Varecia variegata* behavioral ecology, *Jun. 2010, Jun.-Jul. 2012*
- American Museum of Natural History, New York: Primate postcranial morphometrics, *May 2012*
- Royal Museum of Central Africa, Tervuren, Belgium: Hominoid long bone 3D surface scans, *Mar. 2012*
- National Museum of Natural History, Smithsonian: Human long bone morphometrics, *Jan. 2012*
- Dalquest Research Station, West Texas: Eocene fossil fieldwork, *Jan. 2005, 2006, 2008, 2011*
- Powell-Cotton Museum, Birchington, UK: Cercopithecoid long bone 3D surface scans, *Jul. 2010*
- University of the Witwatersrand and the Transvaal Museum, South Africa: Australopith skeletal morphometrics, *Jan. 2010*
- Powell-Cotton Museum, Birchington, UK: Gorilla specimens annotated inventory detailing skeletal age markers, pathologies, *in vivo* trauma, and *post mortem* damage, *Nov.-Dec. 2007*

- Powell-Cotton Museum, Birchington, UK: Chimpanzee specimens annotated inventory detailing skeletal age markers, pathologies, *in vivo* trauma, and *post mortem* damage, *Nov.-Dec. 2006*
- Duke University Primate Center: Strepsirhine body mass (records search), *Fall 2003*
- Yale Peabody Museum Large Mammal Collection: Large mammal postcranial morphometrics, *Fall 2003*
- Harvard Museum of Comparative Zoology: Bat postcranial morphometrics, *Fall 2003*
- American Museum of Natural History, New York; National Museum of Natural History, Smithsonian; Cleveland Museum of Natural History; Harvard Museum of Comparative Zoology; Bramblett Baboon Collection, University of Texas at Austin; Powell-Cotton Museum, Birchington, UK; Anthropological Institute and Museum, Zürich; Royal Museum of Central Africa, Tervuren, Belgium: Primate postcranial morphometrics, *Summer 2002-Spring 2003*
- Anthropological Institute and Museum, Zurich: Primate postcranial morphometrics, *Feb. 2002*
- Chilga and Shinfa, Ethiopia: Paleontological and archaeological surveying, *Jan. 2002*
- Powell-Cotton Museum, UK: African ape postcranial morphometrics, *Summer 2000*
- Bramblett Baboon Collection, University of Texas at Austin: Baboon postcranial articular morphometrics and laser scanning, *Spring 1999*
- Glacier National Park: Paleomagnetic sampling, *Summer 1998*

## **Teaching**

### **Courses Taught at the University at Albany**

Names and catalog numbers for organized courses are followed by the semester and year in which they were taught (note that this does not include independent studies, undergraduate honors thesis hours, M.A. thesis hours, or Ph.D. dissertation hours).

#### *Undergraduate:*

- Introduction to Human Evolution (AANT 110): *S09, F09, S10, F10, F11, S13, S14, F14, F16*
- Primate Evolutionary Biology (AANT 416): *F08, F09, F10, F11, F13*

#### *Graduate:*

- Quantitative Methods in Anthropology (AANT 600): *F14*
- Advanced Quantitative Methods in Anthropology (AANT 601): *S10, S11, S13, S15, S17*
- Proseminar in Physical Anthropology (AANT 502): *S14, S15, S16*
- Comparative Socioecology: Humans and Non-Human Primates (AANT 611): *S11*
- Primate Evolutionary Biology: Body Size (AANT 611/617): *S09, F13, F16*

### **Courses Taught at Other Institutions**

#### *Undergraduate:*

- Introduction to Physical Anthropology (Laboratory portion): *F98, S99, F00, F02, S03*
- Human Origins and Evolution (Laboratory portion): *S01*

#### *Graduate:*

- Advanced Quantitative Methods in Anthropology: *S05*
- Statistical and Methodological Approaches to Paleoecology: *S06*
- CASHP Independent Study, Statistical Programming and Monte Carlo Approaches in R: *S07*
- CASHP Independent Study, Basic Biostatistics: *F07*

### **Ph.D. Dissertation Advisees**

- Jerred Schafer (in progress, Phase II)
- Amanda Spriggs (in progress, ABD)

### **Ph.D. Committees (University at Albany)**

- Kristopher Burnitz (deceased)
- Gail Hughes-Morey (Ph.D. 2012)
- Jordan Karsten (Ph.D. 2014)
- Justin Ledogar (Ph.D. 2015)
- Jana Makedonska (Ph.D. 2013)
- Amanda Smith (Ph.D. 2015)
- Kelli Tamvada (Ph.D. 2015)
- Ajay Yesupriya (in progress, Phase II)

**Ph.D. Committees (Other Institutions)**

- Paul Constantino, GWU (Ph.D. 2007)
- Erin Marie Williams, GWU (Ph.D. 2011)
- Sheila Holmes, U. of Calgary (in progress)

**M.A. Thesis Advisees**

- Tara Covert (in progress)
- Jacquelyn Rajchel (M.A. 2016)
- Julie Ferguson (M.A. 2012)
- Elaine Wilcox (in progress)

**M.A. Committees**

- Bianca Englese (M.A. 2010)
- Kyrie Nelder (M.A. 2010)
- Elizabeth Holdsworth (M.A. 2013)
- Steve Osikowicz (M.A. 2014)
- Jasmine Munk (M.A. 2009)
- Logan Tierney (M.A. 2015)
- Mwaka Nachilongo (M.A. 2010)

**Undergraduate Honors Thesis Advisees**

- Kelly Danielson (B.S. 2012)
- Jacqueline Kenitz (B.S. 2012)

**Service**

**Professional Service (Discipline)**

2015-Present Associate Editor, *Journal of Human Evolution*

2010-2012 Panel Member, National Science Foundation Review Panel

2004-Present *Ad Hoc* Reviewer for:

- *American Journal of Physical Anthropology*
- *American Journal of Primatology*
- *Evolutionary Anthropology*
- *Evolutionary Biology*
- *Geobios*
- *International Journal of Primatology*
- *Journal of Anatomy*
- *Journal of Human Evolution*
- *Journal of Mammalogy*
- *Journal of Morphology*
- *Journal of Theoretical Biology*
- *Methods in Ecology and Evolution*
- *Nature*
- *Nature Communications*
- *Nature Education*
- *Paleobiology*
- *PeerJ*
- *PLoS ONE*
- *Primates*
- *Scientific Reports*
- *South African Journal of Science*
- *Transactions of the Royal Society of South Africa*
- *Zoologica Scripta*
- Leakey Foundation Grants
- National Science Foundation

**Professional Service (Department)**

2013-Present, Coordinator, Paleoanthropology and Primatology Reading Group, Department of Anthropology, University at Albany

2016-2017 Director, Program in Human Biology, Department of Anthropology

2016-2017 Committee Member, Undergraduate Affairs Committee, Department of Anthropology, University at Albany

2015-2016 Committee Chair, Tenure-Track Assistant Professor Search Committee, Department of Anthropology, University at Albany

2015-2016 Committee Member, Tenure-Track/Tenured Open Rank Professor Search Committee, Department of Anthropology, University at Albany

2015-2016 Committee Chair, Undergraduate Advisor for Human Biology Search Committee, Department of Anthropology, University at Albany

2013-2014 Committee Member, Graduate Affairs Committee, Department of Anthropology, University at Albany

- 2013 Committee Member, Awards Committee, Department of Anthropology, University at Albany
- 2012-2013 Committee Member, Tenure-Track/Tenured Professor Search Committee, Department of Anthropology, University at Albany
- 2012-2013 Committee Member, Lecturer Search Committee, Department of Anthropology, University at Albany
- 2012 Commencement Speaker, Departmental Spring Graduation Ceremony
- 2011 Committee Member, Graduate Affairs Committee, Department of Anthropology, University at Albany
- 2010 Commencement Speaker, Departmental Spring Graduation Ceremony
- 2010 Committee Member, Undergraduate Affairs Committee, Department of Anthropology, University at Albany
- 2009-2010 Coordinator, Department of Anthropology Speaker Series, University at Albany

**Professional Service (College and University)**

- March. 2017 Panelist, "What I Wish I'd Known: A Panel Discussion with Recently Tenured Faculty", ITLAL event for pre-tenure faculty
- Feb. 2017 Participant, University Strategic Planning Workshop; Presenter for the "Optimize the Experience for 21st Century Learners" working group
- Oct. 2016 Program Representative (Human Biology), Prospective Student Open House event
- Apr. 2016 Program Rep. (Human Biology), Educational Opportunities Program recruiting event
- Fall 2014- Spring 2015 Councilor and Recorder, College of Arts and Sciences Faculty Council
- May 2014 Marching Faculty Member, University Undergraduate Graduation Ceremony
- Mar. 2014 Program Representative (Human Biology), Scholars Day Honors College recruiting event
- Fall 2013 Faculty Participant, UAccess Dialogue in Action small group discussions
- May 2013 Marching Faculty Member, University Undergraduate Graduation Ceremony
- Apr. 2013 Invited Faculty Guest, Breakfast of Champions
- Mar. 2013 Program Representative (Human Biology), Accepted Student Open House recruiting event
- May 2012 Invited Faculty Guest, Honors College Graduation Celebration
- May 2012 Marching Faculty Member, University Undergraduate Graduation Ceremony
- May 2010 Marching Faculty Member, University Undergraduate Graduation Ceremony
- Mar. 2010 Program Representative (Human Biology), Presidential Scholars Day recruiting event
- Oct. 2009 Program Representative (Human Biology), Open House for Prospective Students recruiting event
- May 2009 Marching Faculty Member, University Undergraduate Graduation Ceremony
- Mar. 2009 Program Representative (Human Biology), Scholars Day Honors College recruiting event
- Feb. 2009 Faculty Mentor, College of Arts and Sciences "Food for Thought" program

**Professional Service (as graduate student)**

- 2000-2003 Committee Member, Liberal Arts Graduate Research Fellowship Selection Committee, University of Texas at Austin
- 1998-2000 Student Representative, Graduate Studies Committee for the Department of Anthropology, University of Texas at Austin
- 1999 Coordinator, Physical Anthropology Lecture Series at the University of Texas at Austin

**Public Dissemination of Research**

- May. 2017 Panelist for *Teen Science Café* at miSci, the museum of innovation and science (Schenectady, NY) for panel discussion titled "Why Science Matters".
- Feb. 2017 Panelist for *Science on Tap Capital Region* (Albany, NY) for panel discussion titled "Why Science Matters".

- Feb. 2014 Essay broadcast on the *Academic Minute*, a production of WAMC, Albany-based Northeast Public Radio. This essay summarized results of a recent student in *PNAS* on human movement patterns.
- Oct. 2013 News summary piece in *Nature* describing a study in *AJPA* of hand proportions in *Australopithecus afarensis* in relation to those of modern humans and African apes.
- Jul. 2011 Press coverage on *WIRED* detailing a study in *PLoS ONE* investigating the relationship between maximal metabolic rate and brain size in mammals.
- Jul. 2011 Press coverage detailing a study in *PNAS* investigating differences in brain aging in chimpanzees and humans, highlighted the National Science Foundation, *Science*, the *Wall Street Journal*, and the BBC.
- Mar. 2010 Press release from the University at Albany detailing an experimental study in *PLoS ONE* investigating how the makers of 3.6 million-year-old fossil footprints from Tanzania walked (also highlighted on the websites *ScienceDaily* and *ScienceNews*).
- Jan. 2009 Coverage in *Discover* magazine's Top 100 Science Stories of 2008 (#86) for research in *PNAS* on *Homo floresiensis* (accompanied by a press release from the University at Albany).
- Mar. 2008 Radio interview on NPR's *Morning Edition* for research in *PNAS* on *Homo floresiensis*.
- Sep. 2007 Panel discussant in a public symposium as part of *The Stony Brook Human Evolution Symposium* Series, convened by Richard Leakey.

**Professional Affiliations**

- American Association of Physical Anthropologists
- American Society of Primatologists
- European Society for the Study of Human Evolution
- International Primatological Society
- Paleoanthropology Society