

## **Robin M. Bernstein**

Department of Anthropology  
University of Colorado  
1350 Pleasant Street  
Boulder, CO 80309  
Office: 303.735.2217 Lab: 303.735.0269  
Email: Robin.Bernstein@colorado.edu

I am a biological anthropologist. The overarching goal of my research program is to understand how patterns of growth and development are shaped within a lifetime and across evolutionary time, in humans and non-human primates. My research is laboratory- and field-based, rooted in interdisciplinary collaboration, and situated within life history and global health frameworks.

### **EDUCATION**

---

- 2004 PhD, Anthropology, University of Illinois, Urbana, IL
- 1997 BA, Anthropology, Rutgers University, New Brunswick, NJ

### **ACADEMIC POSITIONS**

---

- 2013- Associate Professor, Department of Anthropology, University of Colorado Boulder
- 2004-13 Assistant Professor, Department of Anthropology, George Washington University

### **OTHER APPOINTMENTS**

---

- 2017-18 Fellow, Research and Innovation Office (RIO) Faculty Fellows Program
  - 2015- Faculty Associate, Health and Society Program, Institute of Behavioral Science  
University of Colorado, Boulder
  - 2013- Faculty Affiliate, Center for Global Health, Colorado School of Public Health
  - 2012-13 Policy Research Scholar, Institute for Public Policy, George Washington University
  - 2011- Research Associate, Department of Anthropology, University of Illinois at Urbana-Champaign
  - 2005-13 Research Collaborator, National Museum of Natural History, Smithsonian Institution
  - 2004-13 Assistant Professor, Department of Anatomy and Regenerative Biology, George Washington  
University School of Medicine
-

## RESEARCH

---

### Grants

#### External Support

2018-20 (Mentor) "Effects of zinc alone versus multiple micronutrients on IGFBP3, IGF1 and growth in Laotian children"; Thrasher Research Fund (\$26,749)

2015-18 (co-PI) "Action through organization: supporting mentoring and networking for early career women scientists through the AAPA Women's Initiative"; The Elsevier Foundation New Scholars Award (\$48,000)

2012-19 (PI) "Identification of nutritionally modifiable hormonal and epigenetic drivers of positive and negative growth deviance in rural African fetuses and infants"; Bill and Melinda Gates Foundation (\$2,032,852)

2012-13 (co-PI) "A physiological perspective on bone strength"; Wenner-Gren Foundation (\$25,000)

2011-13 (PI) "Breast milk bioactives and the defense of gut and growth"; Bill and Melinda Gates Foundation (\$100,000)

2010-13 (co-PI) "Collaborative Research: A multidisciplinary, field based study of the little-known Kinda baboon (*Papio cynocephalus kindae*)"; National Science Foundation (\$22,658)

2009-11 (PI) "Endocrine correlates of growth and development in the Awash baboons"; National Science Foundation (\$222,399)

2008-09 (PI) "Hormonal correlates of divergent growth trajectories in male baboons"; International Primatological Society (\$1,500)

#### Internal Support

2016 "Milk: nutrition and health shaped by cultural practices and the environment"; University of Colorado Population Center (\$9,000)

2012-13 "Making room for change: tracking policy creation and compliance for support of breastfeeding mothers in colleges and universities in the DC metro area"; George Washington Institute for Public Policy Research Scholar Fellowship (\$10,000)

2012-13 "Endocrine signaling via milk in primates: effects on infant growth, development, and the implications for the developmental origins of adult disease"; The George Washington University – Smithsonian Institution Opportunity Fund (\$40,000)

2011-12 "Breast milk, maternal signaling, and environmental change"; The George Washington University Facilitating Fund (\$25,132)

2009-10 "Hormones and divergent growth trajectories in male Awash baboons"; The George Washington University Facilitating Fund (\$16,078)

2007-08 "Genetic and hormonal correlates of growth and aging in great apes"; The George Washington University Dilthey Faculty Fellowship (\$22,003)

2006-07 "Stress and captivity in the red-shanked douc langur"; The George Washington University Facilitating Fund (\$14,038)

**Peer reviewed articles and book chapters (current and former student co-authors underlined)**

30. **Bernstein RM**, Bogin BA. In press (October 2019). Growth and development. In: Brüne M, Schiefenhövel W, eds. *Oxford Handbook of Evolutionary Medicine*. Oxford University Press.
29. Hinnouho G-M, **Bernstein RM**, Barffour MA, Arnold CD, Wessels KR, Ratsavong K, Bounheuang B, Kounnavong S, Hess SY. 2019. Impact of two forms of daily preventive zinc or therapeutic zinc supplementation for diarrhea on hair cortisol concentrations among rural Laotian children: a randomized controlled trial. *Nutrients* 47; doi:10.3390/nu11010047
28. Washabaugh J, Olaniyan O, Secka A, Jeng M, **Bernstein RM**. 2018. Milk hygiene and consumption practices in The Gambia. *Food Control* <https://doi.org/10.1016/j.foodcont.2018.11.042>
27. Wessells KR, Brown KH, Kounnavong S, Barffour MA, Hinnouho G-M, Sayasone S, Stephensen CB, Ratsavong K, Larson CP, Arnold CD, Harding KB, Reinhart GA, Lertmemongkolchai G, Fucharoen S, **Bernstein RM**, Hess SY. 2018. Comparison of two forms of daily preventive zinc supplementation versus therapeutic zinc supplementation for diarrhea on young children's physical growth and risk of infection: study design and rationale for a randomized controlled trial. *BMC Nutrition* 4: 39
26. Watson S, Moore SE, Darboe MK, Chen G, Tu, Y-K, Huang Y-T, Eriksen KG, **Bernstein RM**, Prentice AM, Wild CP, Xu Y, Routledge MN, Gong YY. 2018. Impaired growth in rural Gambian infants exposed to aflatoxin: a prospective cohort study. *BMC Public Health* 18: 1247
25. Turner TR, **Bernstein RM**, Taylor A, Asangba A, Bekelman T, Danzy Cramer J, Elton S, Harvati K, Williams-Hatala EM, Kauffman L, Middleton E, Richtsmeier J, Szathmáry E, Torres-Rouff C, Thayer Z, Villaseñor A, Vogel E. 2018. Participation, representation and shared experiences of women scholars in biological anthropology. *Yearbook of Physical Anthropology* 165: 126-157.
24. Fardi S, Sauter ML, Cuozzo FP, Jacky IAY, **Bernstein RM**. 2018. The effect of extreme weather events on hair cortisol and body weight in a wild ring-tailed lemur population (*Lemur catta*) in Southwestern Madagascar. *American Journal of Primatology* 80: e22731.
23. Helfrecht C, Hagen EH, DeAvila D, **Bernstein RM**, Dira SJ, Meehan CL. 2018. DHEAS patterning across childhood in three sub-Saharan populations: associations with age, sex, ethnicity, and cortisol. *American Journal of Human Biology* 30: e23090
22. Nabwera HM, **Bernstein RM**, Agbla SC, Moore SE, Darboe MK, Colley M, Jallow AT, Bradbury R, Karafin J, Fulford AJ, Prentice AM. 2017. Hormonal correlates and predictors of nutritional recovery in malnourished African children. *Journal of Tropical Pediatrics*
21. **Bernstein RM**. 2017. Hormones, human and nonhuman primate growth. *Hormone Research in Paediatrics* 88: 15-21.
20. Davis JCC, Lewis ZT, Krishnan S, **Bernstein RM**, Moore SE, Prentice AM, Mills DA, Lebrilla CB, Zivkovic AM. 2017. Growth and morbidity of Gambian infants are influenced by maternal milk oligosaccharides and infant gut microbiota. *Scientific Reports* 7, 40466.
19. **Bernstein RM**. 2016. Comparative endocrinology of childhood growth. In: Meehan C, Crittenden A, eds. *Multiple Perspectives on the Evolution of Childhood*. SAR/University of New Mexico Press. Pp. 103-119.
18. Power ML, Schulkin J, Drought H, Milligan L, Murtough KL, **Bernstein RM**. 2016. Patterns of milk macronutrients and several bioactive molecules across lactation in a western lowland gorilla (*Gorilla gorilla*) and a Sumatran orangutan (*Pongo abelii*). *American Journal of Primatology* 79: 1-11.

17. **Bernstein RM**, Hinde K. 2016. Bioactive factors in milk across lactation: maternal effects and influence on infant growth in rhesus macaques (*Macaca mulatta*). *American Journal of Primatology* 78: 838-850.
16. Fourie NH, Brown JL, Jolly CJ, Phillips-Conroy JE, Rogers J, **Bernstein RM**. 2016. Sources of variation in hair cortisol in wild and captive non-human primates. *Zoology* 119: 119-125.
15. Fourie NH, Turner TR, Brown JL, Grobler PJ, Lorenz JG, **Bernstein RM**. 2015. Variation in vervet (*Chlorocebus aethiops*) hair cortisol concentrations reflects ecological disturbance by humans. *Primates* 56: 365-373.
14. Fourie NH, Jolly CJ, Phillips-Conroy JE, Brown JL, **Bernstein RM**. 2015. Variation in hair cortisol concentrations in wild populations of two baboon species (*Papio anubis*, *P. hamadryas*) and a population of their natural hybrids. *Primates* 56: 259-272.
13. **Bernstein RM**, Dominy NJ. 2013. Mount Pinatubo, inflammatory cytokines, and the immunological ecology of Aeta hunter-gatherers. *Human Biology* 85: 231-250.
12. **Bernstein RM**, Drought H, Phillips-Conroy JE, Jolly CJ. 2013. Hormonal correlates of divergent growth trajectories in wild male anubis (*Papio anubis*) and hamadryas (*Papio hamadryas*) baboons in the Awash River Valley, Ethiopia. *International Journal of Primatology* 34: 732-751.
11. Alesbury H, Ubelaker D, **Bernstein RM**. 2013. Age-at-death estimation using the frontonasal suture in human crania. *Journal of Forensic Sciences* 58: 104-108.
10. **Bernstein RM**, Setchell J, Verrier D, Knapp L. 2012. Maternal effects and the endocrine regulation of mandrill growth. *American Journal of Primatology* 74: 890-900.
9. Conley A, **Bernstein RM**, Nguyen A. 2012. The evidence for, and the need to re-define, adrenarche in nonhuman primates. *Journal of Endocrinology* 214: 121-131.
8. **Bernstein RM**, Sterner K, Wildman D. 2012. Adrenal androgen production in catarrhine primates and the evolution of adrenarche. *American Journal of Physical Anthropology* 147: 389-400.
7. Fourie N, **Bernstein RM**. 2011. Hair cortisol levels track phylogenetic and age-related differences in hypothalamic-pituitary-adrenal (HPA) axis activity in non-human primates. *General and Comparative Endocrinology* 174: 150-155.
6. **Bernstein RM**. 2010. The big and small of it: how body size evolves. *Yearbook of Physical Anthropology* 143: 46-62.
5. **Bernstein RM**, Nadler T, Brown J, Fourie N. 2009. Variation in fecal glucocorticoid concentrations in captive red-shanked douc langurs (*Pygathrix nemeaus*). *Vietnamese Journal of Primatology* 3: 65-74.
4. Stinespring Harris A, **Bernstein RM**, Kuhle B. 2009. Predicting age at onset of menopause: testing the "adaptive onset" hypothesis. *Maturitas* 64: 193-195.
3. **Bernstein RM**, Leigh SR, Donovan S, Monaco M. 2008. Hormonal correlates of ontogeny in baboons (*Papio hamadryas anubis*) and mangabeys (*Cercocebus atys*). *American Journal of Physical Anthropology* 136: 156-168.
2. **Bernstein RM**, Leigh SR, Donovan S, Monaco M. 2007. Hormones and body size evolution in papionin primates. *American Journal of Physical Anthropology* 132: 247-260.
1. Leigh SR, **Bernstein RM**. 2006. Ontogeny, life history, and maternal investment in baboons. In: *Reproduction and Fitness in Baboons* (S. Leigh and L. Swedell, editors), Kluwer Academic/Plenum Publishers: New York. Pp. 225-256.

## Encyclopedia entries, comments, book reviews

8. **Bernstein RM**. 2018. Models of growth for humans and primates. In: Trevathan W, ed. *The International Encyclopedia of Biological Anthropology*. John Wiley and Sons, Inc.
7. **Bernstein RM**. 2018. Evolution of human growth. In: Trevathan W, ed. *The International Encyclopedia of Biological Anthropology*. John Wiley and Sons, Inc.
6. **Bernstein RM**, Dufour DL. 2017. Worldwide Variation in Human Growth: 40 years later (Introduction to Special Section). *American Journal of Human Biology* 29: e22984.
5. **Bernstein RM**. 2017. Growth rates. In: Fuentes A, ed. *International Encyclopedia of Primatology*. John Wiley & Sons, Inc.
4. **Bernstein RM**. 2015. Comment on 'Children as a reserve labor force', by David Lancy. *Current Anthropology* 56: 554-555.
3. **Bernstein RM**. 2013. Review of *Building Babies: Primate Development in Proximate and Ultimate Perspective* (K.B.H. Clancy, K. Hinde, and J.N. Rutherford, editors). *International Journal of Primatology* 34: 641-643.
2. **Bernstein RM**. 2011. Topic Editor and Author, Growth and Development section. In: Wood BA, ed. *Wiley-Blackwell Encyclopedia of Human Evolution*. Wiley-Blackwell.
1. **Bernstein RM**. 2011. Topic Editor and Author, Life History section. In: Wood BA, ed. *Wiley-Blackwell Encyclopedia of Human Evolution*. Wiley-Blackwell.

## Invited talks

2018

Boise State University, Northwest Evolution, Ecology, Human Behavior Symposium (Boise, ID)

2017

Chatham University, Department of Biology Lecture Series (Pittsburgh, PA)

University of Las Vegas, Department of Anthropology Colloquium Series (Las Vegas, NV)

2016

Rutgers University, 'A Day of Revolutionary Thinking', 250<sup>th</sup> Anniversary (New Brunswick, NJ)

Grand Challenges Annual Meeting (London, England)

CU Population Center Lecture Series (Boulder, CO)

18<sup>th</sup> International Society for Research in Human Milk and Lactation Conference (Stellenbosch, South Africa)

International Primatological Society/American Society of Primatologists Joint Congress (Chicago, IL)

2015

Plenary session, 40<sup>th</sup> Annual Meeting of the Human Biology Association (St. Louis, MO)

Institute of Behavioral Science Health & Society Group Lecture Series (Boulder, CO)

Department of Integrative Physiology Colloquium Series (Boulder, CO)

Anthropology Lecture Series, Rutgers University (New Brunswick, NJ)

2014

Evolution and Human Adaptation Series, University of Michigan (Ann Arbor, MI)

2013

Department of Anthropology, Southern Illinois University (Carbondale, IL)

Department of Anthropology, University of Arkansas (Fayetteville, AR)

Department of Biology, George Washington University (Washington, DC)

2012

Department of Anthropology, University of Manitoba (Winnipeg, MB)

2011

Paleoanthropology Lecture Series, Human Origins Program, Smithsonian Institution (Washington, DC)

2008

New York Consortium in Evolutionary Primatology (NYCEP) Regional Primatology Colloquium (New York, NY)

2005

Anatomy and Regenerative Biology Lecture Series, George Washington University Medical School (Washington, DC)

### Published conference abstracts

Bernstein RM, Davis JCC, Lewis ZT, Krishnan S, Moore SE, Prentice AM, Mills DA, Lebrilla CB, Zivkovic A. 2017. Mother's milk oligosaccharides and infant gut microbiota: seasonality and infant outcomes in rural Gambia. *Am J Phys Anthropol Suppl* 162: 119.

Fardi S, Drammeh S, Doel A, Prentice AM, Moore SE, Bernstein RM. 2017. Neonatal hair cortisol in rural Gambian infants. *Am J Phys Anthropol Suppl* 162: 177.

Gruca M, Moore SE, Darboe MK, Prentice AM, Bernstein RM. 2017. Breast milk macronutrient content in rural West African mothers is impacted by season of infant birth and maternal energy balance. *Am J Phys Anthropol Suppl* 162: 202.

Waller MT, Skinner S, Fardi S, Bernstein RM, Young H. 2017. The effects of human surrogacy on hair cortisol levels in orphaned baboons (*Papio ursinus*). *Am J Phys Anthropol Suppl* 162: 401.

Fardi S, Bernstein R. 2016. Maternal environment, prenatal stress, and offspring cortisol reactivity: a meta-analysis. *Am J Phys Anthropol Suppl* 159: 141.

Gruca M, Moore S, Darboe M, Bernstein R. 2016. Prenatal supplementation, breast milk composition, and infant growth in rural Gambia. *Am J Phys Anthropol Suppl* 159: 163.

Washabaugh J, Moore S, Darboe M, Bernstein R. 2016. Predictors of skin infection in rural Gambian infants. *Breastfeeding Medicine* 11: A47.

Nabwera H, Bernstein R, Jallow A, Jallow M, Prentice AM. 2015. Evaluating growth regulating hormones in rural Gambian children. *The FASEB Journal Suppl* 29: 579.3.

Fardi S, Bernstein R, Sauther M. 2015. Hair cortisol, climatic events, and age in wild ring-tailed lemur (*Lemur catta*) troops from the Beza Mahafaly Special Reserve, Southwestern Madagascar. *Am J Phys Anthropol Suppl* 156: 130.

Zivkovic A, Bernstein R, Huang A, Totten S, Lewis Z, Mills D, Prentice A, Moore S, Lebrilla C. 2014. Milk glycan composition mediates gut microbiota, growth, and morbidity outcomes in Gambian infants. *The FASEB Journal Suppl* 28: 38.4.

- Bernstein R, Moore S, Prentice A. 2014. To every thing there is a season: breast milk, infant growth, and birth seasonality in rural Gambia. *Am J Phys Anthropol Suppl* 153: 77.
- Hinde K, Drought H, Wechsler M, Bernstein R. 2013. Bioactive factors in the milk of a non-human primate biomedical model. *The FASEB Journal Suppl* 27: 629.14.
- Bernstein R, Drought H, Wechsler M, Hinde K. 2013. Bioactive factors in macaque milk: relationships with maternal physiology and infant growth. *Am J Phys Anthropol Suppl* 152: 79.
- Power M, Schulkin J, Drought H, Hinde K, Bernstein R. 2013. Bioactive factors in milk: comparison across nonhuman primates and humans. *Am J Phys Anthropol Suppl* 52: 224.
- Milligan LA, Bernstein R, Wright L, Drought H, Lewis C, Murtough K, Power M. 2013. Longitudinal changes in macronutrient and hormone concentration in orangutan milk during peak lactation. *Am J Phys Anthropol Suppl* 152: 199.
- Drought H, Phillips-Conroy J, Jolly C, Bernstein R. 2013. Exploring hormonal correlates of small body size in the Kinda baboon (*Papio kindae*). *Am J Phys Anthropol Suppl* 52: 115.
- Fourie N, Bernstein R, Porter L, Garber P. 2013. Hair cortisol concentrations in wild saddle back tamarins (*Saguinus fuscicollis weddelli*). *Am J Phys Anthropol Suppl* 52: 124.
- Copes L, Drought H, Patel T, Bernstein R. 2013. Hormonal contributions to sex differences in baboon skeletal robusticity. *Am J Phys Anthropol Suppl* 52: 102.
- Payette C, Copes L, Patel T, Bernstein R. 2013. The effects of locomotor category and sex on the ontogeny of skeletal robusticity in two strepsirrhine species (*Lemur catta* and *Propithecus verreauxi*). *Am J Phys Anthropol Suppl* 52: 146.
- Fourie N, Bernstein R, Phillips-Conroy J, Jolly C, Brown J. 2012. Variation in hair cortisol in wild anubis and hamadryas baboons and their hybrids. *Am J Phys Anthropol Suppl* 52: 146.
- Copes L, Tommasini S, Patel T, Leigh S, Bernstein R. 2012. Biological co-adaptation of morphological and composition traits in weight-bearing and non-weight bearing bones of baboons. *J Bone Miner Res* 27 (Suppl 1).
- Bernstein R, Drought H, Phillips-Conroy J, Jolly C. 2011. Hormonal correlates of divergent growth trajectories in male anubis, hamadryas, and hybrid baboons. *Am J Phys Anthropol Suppl* 52: 89.
- Sterner K, Church S, Wildman D, Bernstein R. 2011. Evolution of adrenarche in *Homo* and *Pan*. *Am J Phys Anthropol Suppl* 52: 285
- Fourie N, Bernstein R. 2011. Quantification of cortisol in wild and captive nonhuman primate hair: methodological considerations and biological validation. *Am J Phys Anthropol Suppl* 52: 137.
- Bernstein R, Chirchir H, Fourie N. 2010. Lemurs, hormones, and the pace of life histories: IGF-I and somatic growth in *Lemur*, *Eulemur*, *Propithecus* and *Varecia*. *Am J Phys Anthropol Suppl* 50: 66.
- Stinespring Harris A, Bernstein R, Kuhle B. 2010. Is the age at onset of menopause adaptive?: putting the “adaptive onset” hypothesis to the test. *Am J Phys Anthropol Suppl* 50: 223.
- Bernstein R, Setchell J, Wickings J. 2009. IGF-I and body mass ontogeny in male mandrills (*Mandrillus sphinx*). *Am J Phys Anthropol Suppl* 48: 90.
- Leigh S, Bernstein R, Konigsberg L. 2009. Dental eruption, age estimation, and life histories in papionin primates. *Am J Phys Anthropol Suppl* 48: 174.

- Stinespring A, Bernstein R. 2009. Are capuchins good models for the “grandmother” hypothesis?: What socio-spatial behavior of females with dependent infants can tell us. *Am J Phys Anthropol Suppl* 48: 248.
- Bernstein R, Leigh S, Setchell J. 2008. Allometry and physiology: hormones, mass, and length. *Primate Eye* 96 (IPS 22<sup>nd</sup> Congress Proceedings): 158.
- Bernstein R. 2007. The hormonal regulation of ontogeny in *Papio* and *Cercocebus*. *Am J Phys Anthropol Suppl* 44: 73.
- Bernstein R. 2006. Hormones and growth in papionin primates. *Am J Phys Anthropol Suppl* 42: 64.
- Bernstein R. 2005. Growth related hormones in great apes. *Am J Phys Anthropol Suppl* 40: 134.
- Leigh S, Bernstein R. 2004. Evolution of primate life histories. *Am J Phys Anthropol Suppl* 38: 134.
- Bernstein R, Leigh S, Donovan S, Monaco M. 2003. Integration among hormonal parameters of growth in baboons: implications for patterns of maturation and reproduction. *Am J Phys Anthropol Suppl* 36: 65.
- Leigh S, Bernstein R. 2003. Ontogeny, life history, and maternal reproductive strategies in baboons. *Am J Phys Anthropol Suppl* 36: 138.
- Bernstein R, Leigh S, Siegel M, Donovan S. 2002. IGF-I bioavailability and patterns of body size variation in *Papio* and *Cercocebus*. *Am J Phys Anthropol Suppl* 34: 44.
- Bernstein R. 2001. Somatomedin secretion and patterns of growth in *Papio* and *Cercocebus*. *Am J Phys Anthropol Suppl* 32: 39.
- Bernstein R, Rowan K, Leigh S. 2000. New dental age standards for baboons (*Papio hamadryas anubis*) and mangabeys (*Cercocebus atys*). *Am J Phys Anthropol Suppl* 30:107.

### Conference presentations

- Bernstein RM, Naumenko DJ, Washabaugh J, Hinnouho G-M, Barffour MA, Wessells KR, Ratsavong K, Kounnavong S, Hess SY. 2018. Infant hair cortisol in central Lao PDR. Human Biology Association Annual Conference (Austin, TX)
- Hinnouho GM, Barffour MA, Bernstein RM, Arnold CD, Wessells KR, Kounnavong S, Hess SY. 2018. Effects of daily preventive zinc, therapeutic zinc supplementation for diarrhea, or a micronutrient powder on hair cortisol concentrations in rural Laotian children. American Society for Nutrition (Boston, MA).
- Washabaugh J, Bernstein RM, Secka A, Jeng M, Olaniyan O. 2017. Milking and market hygiene practices: quality of cow’s milk in The Gambia. Human Biology Association Annual Conference (New Orleans, LA)
- Lemmers S, Setchell J, Schwartz G, Reid D, Bernstein R, Leigh S, Ngoubangoye B, Herbert A, Dirks W. 2017. Histological analysis of dental development in *Mandrillus sphinx*. Primate Society of Great Britain Winter Meeting (Durham, England).
- Lemmers S, Setchell J, Schwartz G, Reid D, Bernstein R, Leigh S, Ngoubangoye B, Herbert A, Dirks W. 2016. Comparative study of dental development in African papionins. International Primatological Society/American Society of Primatologists Joint Meeting (Chicago, IL)
- Fardi S, Porter LM, Erb WM, Di Fiore A, Bernstein R. 2016. Hair cortisol in wild saddleback tamarins (*Leontocebus weddelli*). International Primatological Society/American Society of Primatologists Joint Meeting (Chicago, IL)



Bernstein R, Zivkovic A, Huang J, Totten S, Lewis Z, Mills D, Prentice A, Moore S, Lebrilla C. 2014. Milk, morbidity, and infant growth. 17<sup>th</sup> International Society for Research in Human Milk and Lactation Conference (Kiawah Island, SC)

Bernstein R, Zivkovic A, Huang J, Totten S, Lewis Z, Mills D, Prentice A, Moore S, Lebrilla C. 2014. Milk, morbidity, and infant growth. 10<sup>th</sup> Annual Grand Challenges Meeting (Seattle, WA)

Fardi S, Bernstein R, Sauther M. 2014. Climatic events and hair cortisol in two wild ring-tailed lemur (*Lemur catta*) troops from Beza Mahafaly Special Reserve, Southwestern Madagascar. 83<sup>rd</sup> Annual Meeting of the American Association of Physical Anthropologists: Undergraduate Research Symposium (Calgary, AB)

Bernstein R, Moore S, Prentice A. 2013. Breast milk, infant growth, and intestinal health in rural Gambia. 6<sup>th</sup> Annual Global Health Symposium: Colorado School of Public Health (Aurora, CO)

Bernstein R, Moore S, Prentice A. 2013. Seasonality, breast milk bioactives, and infant growth. 112<sup>th</sup> Annual Meeting of the American Anthropological Association (Chicago, IL)

Bernstein R, Drought H, Prentice AM, Moore SE. 2013. Breast milk bioactive factors in rural Gambian women and infant health and growth. Convening of Agriculture & Nutrition Awardees, Grand Challenges Explorations, Bill and Melinda Gates Foundation (Seattle, WA)

Bernstein R. 2012. Healthy growth: patterns and processes. 8<sup>th</sup> Annual Grand Challenges Meeting (Ottawa, ON)

Power M, Schulkin J, Drought H, Bernstein R. 2012. Growth factors and metabolic hormones in primate milk. 9<sup>th</sup> Biennial Symposium of the Comparative Nutrition Society (Pacific Grove, CA)

Fourie N, Bernstein R. 2010. Hair as a retrospective calendar of cortisol in wild and captive primates. 47<sup>th</sup> Annual Meeting of the Animal Behavior Society (Williamsburg, VA)

Fourie N, Bernstein R. 2009. Quantifying steroid hormones from the hair of wild primates. 8<sup>th</sup> Annual Meeting of the Primate Ecology and Genetics Group (Pretoria, South Africa)

## TEACHING

---

### University of Colorado Boulder (2013- )

ANTH 7620: Bridging Seminar (with K. Roland)

ANTH 7020: Growth and Development

ANTH 4120/5120: Advanced Biological Anthropology

Fall 2014/5: Hormones and Behavior

Fall 2016: Evolutionary Medicine

Fall 2017: Mothers, Babies, and Food

ANTH 2020: Introduction to Biological Anthropology 2

### Federal Bureau of Investigation (2006-2012)

Surface and Developmental Anatomy Seminar (Forensic Audio, Video, & Image Analysis Unit)

### George Washington University (2004-2013)

ANTH 1001: Biological Anthropology

ANTH 1005: Biological Bases of Human Behavior

ANTH 3405/6405: Human Growth and Development

ANTH 6102: Proseminar in Biological Anthropology  
ANTH 6404: Primate Life Histories  
ANTH 8001: Hormones and Behavior  
HOMP 8301: Problem-Based Learning Seminar  
ANAT 6210: Medical Gross Anatomy (GWU Medical School)

### University of Illinois at Urbana-Champaign (2000-2004)

MCB 244: Human Anatomy and Physiology  
ANTH 102: Human Origins and Culture

### SERVICE

---

#### Professional service

- 2018 co-Facilitator: Open discussion on development of an association-based mentoring program (AAPA annual conference, Austin, TX)
- 2017- Panelist: National Science Foundation
- 2017 co-Editor: Special section of *American Journal of Human Biology* (2016 HBA Plenary – “Worldwide variation in human growth: 40 years later”)
- 2017 Facilitator: Workshop for Women Primatologists and Biological Anthropologists (Durham, UK)
- 2016 Organizer: Workshop for Women Biological Anthropologists (Boulder, CO)
- 2016 co-Organizer: Human Biology Association Annual Meeting Plenary Session: *Worldwide Variation in Human Growth – 40 Years Later* (Atlanta, GA)
- 2016 co-Chair: Committee on Diversity Women’s Initiative Graduate Student Professional Development Workshop (Atlanta, GA)
- 2015 co-Chair: Committee on Diversity Women’s Initiative Early-Career Women’s Professional Development Workshop (St. Louis, MO)
- 2015 Member: Ethics committee subcommittee, co-wrote American Association of Physical Anthropologists statement on sexual harassment and assault
- 2014 co-Chair: Committee on Diversity Women’s Initiative Mid-Career Women’s Professional Development Workshop (Calgary, Canada)
- 2013-17 Associate Editor: *Yearbook of Physical Anthropology*
- 2013- co-Chair: Women’s Initiative, Committee on Diversity, American Association of Physical Anthropologists
- 2013-14 Chair: Childcare Committee, American Association of Physical Anthropologists
- 2011 Presenter: *The scientist is in*. Hall of Human Origins, National Museum of Natural History, Smithsonian Institution
- 2008- Grant review: National Science Foundation; The Leakey Foundation; Wenner-Gren Foundation; The Canada Foundation for Innovation; PRESTIGE Marie Curie Program
- 2008 Symposium organizer: *Primate body size: a multiple-level perspective*. 22<sup>nd</sup> Congress of the International Primatological Society (Edinburgh, Scotland)
- 2005- Book review: Oxford University Press, Cambridge University Press
- 2004- Manuscript review: *American Journal of Human Biology*; *American Journal of Physical Anthropology*; *American Journal of Primatology*; *Current Anthropology*; *Human Nature*; *International Journal of Primatology*; *Journal of Anatomy*; *Journal of Endocrinology*; *Journal of Human Evolution*; *Journal of Medical Primatology*; *Maternal and Child Nutrition*; *Pediatrics*; *Proceedings of the Royal Society B: Biological Sciences*; *Psychoneuroendocrinology*

## University Service

### University of Colorado, Boulder

2018- Faculty Advisor, Alpha Phi Omega National Service Fraternity  
2018-19 Facilitator, Faculty Teaching Excellence Program Symposium ('Teaching Large Classes')  
2017-19 Chair, Department of Anthropology Climate Committee  
2017- Faculty Advisor, Biological Anthropology Graduate Student RSO  
2016-17 Department of Anthropology Climate Survey Analysis Committee  
2016-18 CARTSS Advisory Board Member  
2016-17 Administrator Evaluation Committee, Arts and Sciences Member  
2014-16 Boulder Faculty Assembly, Anthropology Representative  
2013-16 Department of Anthropology Graduate Program Committee  
2013-16 Honors Council, University of Colorado Honors Program  
2013-16 ASSETT Advisory Committee, College of Arts & Sciences

### George Washington University

2011-12 Steering Committee, Breastfeeding Friendly University Project  
2011 Anthropology Department Search Committee  
2010-11 Columbian College - GPAC Science Subcommittee  
2004-11 Hominid Paleobiology Admissions and Steering Committees  
2008-10 Colonial Inauguration Advising  
2008-09 Anthropology Department Curriculum Committee  
2007-09 Anthropology Department Website Committee  
2006-12 Head undergraduate advisor, Anthropology  
2005-09 Anthropology Department Graduation & Commencement  
2005-08 Cotlow Student Research Awards Committee  
2005 Anthropology & Psychology Department Search Committees  
2004-12 Major advisor, Biological Anthropology  
2004-05 Anthropology Department Bylaws Revision Committee

## STUDENT MENTORING

---

### Doctoral Dissertations (<sup>1</sup>Primary advisor, <sup>2</sup>Committee member)

In prog <sup>1</sup>Jennifer Washabaugh, University of Colorado Boulder

In prog <sup>1</sup>Daniel Naumenko, University of Colorado Boulder

In prog <sup>2</sup>Richard Bender, University of Colorado Boulder

2017 <sup>2</sup>Andie Ang, University of Colorado Boulder. *Genetic variability, diet metabarcoding, and conservation of Colobine primates in Vietnam.*

2016 <sup>2</sup>Erica Tennenhouse, University of Toronto. *Unique lemur traits: proximate and ultimate perspectives.*

2015 <sup>2</sup>Courtney Helfrecht, Washington State University. *Effects of stress on onset of middle childhood among Sidama agropastoralists.*

2012 <sup>1</sup>Nicolaas Fourie, George Washington University. *Hair cortisol in wild and captive primates: environmental effects and behavioral phenotypes.*

2012 <sup>2</sup>Felicia Gomez, George Washington University. *Patterns of genetic diversity and signatures of natural selection at the intercellular adhesion molecule-1 (ICAM-1) and CD36 loci in humans.*

2010 <sup>2</sup>David Green, George Washington University. *Shoulder functional anatomy and development: implications for interpreting early hominin evolution.*

2008 <sup>2</sup>Lisa Nevell, George Washington University. *Hominin cranial base evolution and genes implicated in basioccipital development: role of Pax7, Fgfr3 and Disp1 in basioccipital development and integration.*

### **Masters Theses (<sup>1</sup>Primary advisor, <sup>2</sup>Committee member)**

2017 <sup>1</sup>Sara Fardi, University of Colorado Boulder. *Neonatal hair cortisol in relation to maternal environment, sociodemographic factors, and infant birth and growth outcomes in rural Gambia*

2017 <sup>1</sup>Margaret Gruca, University of Colorado Boulder. *Impact of maternal physiology and environment on breast milk macronutrient content and infant growth in rural West Africa.*

2017 <sup>1</sup>Jennifer Washabaugh, University of Colorado Boulder. *Milk hygiene and consumption practices in The Gambia.*

2017 <sup>2</sup>Brandice Evans, University of Georgia. *Psychosocial stress, race, and social support among breastfeeding mothers in the American South.*

2008 <sup>1</sup>Diana Durand, George Washington University. *Examining the relationship between chin size and facial prognathism in humans.*

2007 <sup>1</sup>Rhonda Coolidge, George Washington University. *A biocultural analysis of fracture patterns in the Terry Collection.*

### **Senior Honors Theses (<sup>1</sup>Primary advisor, <sup>2</sup>Committee member)**

#### University of Colorado Boulder

2019 <sup>1</sup>Grace Bowland, *In progress*

2018 <sup>2</sup>Emily Martin, *The art of dealing with the gods: Balinese women and ritual labor*

2017 <sup>2</sup>Sydney Martin, *Applications of near-infrared spectroscopy in physical anthropology and primate ecology*

2016 <sup>2</sup>Ian Harryman, *Ecological problem solving: a comparative study of primate conservation*

2014 <sup>2</sup>Layne Bronson, *Fertility and agency: reproductive decisions in modern day Rome*

2014 <sup>2</sup>Megan Barrie, *Nepali youth in America: a contemporary look at cultural identity, community, and ties to 'home'*

2013 <sup>2</sup>Logan Singletary, *Habitat use and ranging behavior of *Saimiri oerstedii oerstedii* on the Peninsula de Osa, Costa Rica, and implications for conservation*

#### George Washington University

2013 <sup>1</sup>Alexandria Gregory, *Testing the metabolic crossover hypothesis as an explanation of modern human gestation length*

2010 <sup>1</sup>Helen Alesbury, *Age at death estimation using the frontonasal suture in human skeletal remains*

2008 <sup>1</sup>Lance Levenson, *The ontogeny of primate canine dimorphism as related to sexual selection and intrasexual competition: a comparison of canine dimorphism in the permanent and deciduous dentitions*

2008 <sup>1</sup>Erica Parris, *Assessing the effects of locomotor behavior on limb morphology and accuracy of body mass estimations in Strepsirhines*

2008 <sup>1</sup>Lia Schwartz, *Sex differences in aggressive and affiliative behavior of orphaned Chacma baboons*

2006 <sup>1</sup>Michaela Huffman, *Sex identification in the pelvis: a reexamination of base-wing measurements, sacral anterior curvatures, and os pubis ventral arc*

#### Laboratory training and research mentorship

##### *CU Boulder (2013- )*

Visiting Postdoctoral Researcher: Maxwell Barffour (University of California, Davis)

Graduate students: Daniel Naumenko, Jennifer Washabaugh, Margaret Gruca, Sara Fardi

Undergraduate students: Grace Bowland, Jacks Pasteur, Gabriella Mayne, Kendall Abady, Larkin Broussard, Sara Fardi, Robin Reibold

##### *George Washington University (2004-2013)*

Postdoctoral researcher: Lynn Copes

Graduate students: Jordan Miller, Kaitlin Wellens, Katherine Murtough, Kallista Bernal, Habiba Chirchir, Nicole Griffin, Shane Lutz

Undergraduates: Sadhvi Saxena (University of Maryland), Christopher Payette, Sarah Hillware, Alexandra Kralick, Hien Truong (Columbia University), Michael Holland, Shanae Helm (University of South Carolina, NSF-REU fellow), Marta Ostromecki (NSF-REU fellow), Erica Parris, Victoria Eiss (George Gamow fellow)

#### **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

---

American Association of Physical Anthropologists, Human Biology Association, International Primatological Society