

# HERMAN PONTZER

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## **Education**

- 2006 Harvard University PhD Biological Anthropology
- 2003 Harvard University AM Biological Anthropology
- 1999 Penn State University BA Anthropology

## **Professional Appointments**

- 2013 – Associate Professor of Anthropology, Hunter College  
Graduate Center Faculty, City University of New York  
Faculty Member, New York Consortium for Evolutionary Primatology  
Faculty Committee Member, Human Biology Program
- 2011 – 13 Assistant Professor of Anthropology, Hunter College
- 2006 – 10 Assistant Professor of Anthropology, Washington University

## **Education & Outreach**

- beta version* Founder, [hominoid.org](http://hominoid.org) [www.hominoid.org](http://www.hominoid.org)  
Resources and data for researchers, zoos, and sanctuaries working with apes
- 2013 – Founder, [Australopithecus.org](http://australopithecus.org) [www.australopithecus.org](http://www.australopithecus.org)  
Resources and data for researchers, educators, and students in human evolution
- 2011 – Co-Founder and Co-Director, Hadza Fund [www.hadzafund.org](http://www.hadzafund.org)  
Supporting medical care for the Hadza and providing information on their culture

## **Grants (external)**

- 2016 – 18 Tradeoffs in Childhood Energy Allocation & the Impact of Market Integration  
NSF SBE Post-Doctoral Fellowship (Samuel Urlacher) Role: Co-PI & Mentor
- 2014 – 17 The Evolutionary Biology and Health Consequences of Human Inactivity  
National Science Foundation. Role: Co-PI (David Raichlen, PI)
- 2013 – 15 Total Energy Expenditure in Apes Measured Using Doubly Labeled Water  
National Science Foundation. Role: PI
- 2013 – 14 Energy Expenditure and Life History Among Hominoids  
Wenner-Gren Foundation. Role: PI
- 2012 – 13 Hominoid Daily Energy Expenditure  
L.S.B. Leakey Foundation Research Grant. Role: PI
- 2009 – 12 The Metabolic Cost of Living in Human Foragers.  
National Science Foundation. Role: PI
- 2009 – 10 Hominin Gait Optimization & Analysis Using Evolutionary Dynamic Modeling  
National Science Foundation. Role: Co-PI (William Smart, PI)
- 2009 – 10 Metabolic Cost of Living in Bonobos.  
Wenner-Gren Foundation. Role: PI

- 2005 – 07 Energetics and Evolution of Bipedalism: Chimpanzee Biomechanics.  
L.S.B. Leakey Foundation Research Grant. Role: Co-PI (David Raichlen, PI)
- 2004 – 05 The Effect of Hindlimb Length on Running and Walking Performance  
NSF Doctoral Dissertation Improvement Grant. Advisor: D.E. Lieberman

### **Awards and Fellowships**

- 2016 Presidential Award for Distinguished Scholarship, Hunter College
- 2008 – 10 Earle H. & Suzanne S. Harbison Faculty Fellowship, Washington Univ.
- 2006 Richard J. Herrnstein Prize, Harvard Univ. Graduate School of Arts & Sciences for “the best dissertation that exhibits excellent scholarship, originality and breadth of thought, and a commitment to intellectual independence”
- 2006 Aleš Hrdlička Prize for Outstanding Student Paper  
American Association of Physical Anthropologists.
- 2006 D. Dwight Davis Prize for Outstanding Student Paper  
Society for Integrated and Comparative Biology.
- 2004 – 06 NSF-IGERT Fellowship. Harvard Biomechanics NSF-IGERT Program.
- 2002 – 05 Excellence in Teaching Award, Harvard University.
- 2000 – 03 NSF Graduate Fellowship. Biological Anthropology, Harvard University.
- 1999 Phi Beta Kappa

### **Publications**

#### **Books**

- 2012 Conroy, G.C., Pontzer, H. *Reconstructing Human Origins: A Modern Synthesis*. 3<sup>rd</sup> ed.  
New York: Norton. 672 pages.

#### **Popular Articles & Commentary**

- 2016 Pontzer, H. Behavior: Knowing when to walk away, knowing when to run. *Current Biology*. 26, R717-8.
- 2016 Yetish, G., Kaplan, H., Gurven, M., Wood, B., Pontzer, H., Manger, P.R., Wilson, C., McGregor, R., Siegel, J.M. Response to de la Iglesia et al. *Current Biology*. 26, R273-4.
- 2015 Pontzer, H. Calories! Calories! Read all about it! *NYCEP Blog*.  
<http://blog.nycep.org/calories-calories-read-all-about-it>
- 2012 Pontzer, H. Debunking the hunter-gatherer workout. *New York Times*. August 24.  
Sunday Review.
- 2012 Pontzer, H. Lessons from the Hadza: poor diets wreck efforts to prevent obesity and diabetes. *Diabetes Voice*. 57, 26-29.

#### **Research Articles (\*students)**

- in press* Raichlen, D.A., Pontzer, H., Harris, J.A., Mabulla, A.Z.P., Marlowe, F.M., Snodgrass, J.J., ... Wood, B.M. Physical activity patterns and biomarkers of cardiovascular disease risk in hunter-gatherers. *American Journal of Human Biology*.
- in press* Pontzer, H., Locomotor ecology and evolution in chimpanzees and humans. In: Muller, M. and Wrangham, R.W. (eds). *Panector*.

- 2016 Pontzer, H., Brown, M.H., Raichlen, D.A., Dunsworth, H., Hare, B., Walker, K.K., Luke, A., Dugas, L.R., Durazo-Arvizu, R., ... Ross, S.R. Metabolic acceleration and the evolution of human brain size and life history. *Nature*. 533, 390-392.
- 2016 Pontzer, H. A unified theory for the metabolic cost of legged locomotion. *Biology Letters*. 12, 20150935.
- 2016 Gurven, M.D., Trumble, B.C., Stieglitz, J., Yetish, G., Cummings, D., ... Pontzer, H. High resting metabolic rate among Amazonian forager-horticulturalists experiencing high pathogen burden. *American Journal of Physical Anthropology*. Early view.
- 2016 Pontzer, H., Durazo-Arvizu, R., Dugas, L., Plange-Rhule, J., Bovet, P., ... Luke, A. Constrained total energy expenditure and metabolic adaptation to physical activity in adult humans. *Current Biology*. 26, 1-8.
- 2016 \*Laird, M.F., Vogel, E. Pontzer, H. Chewing efficiency and occlusal functional adaptation. *Journal of Human Evolution*. 93, 1-11.
- 2015 Yetish, G., Kaplan, H., Gurven, M., Wood, B., Pontzer, H., Manger, P.R., Wilson, C., McGregor, R., Siegel, J. Natural sleep and its seasonal variations in three pre-industrial societies. *Current Biology*. 25, 2862-2868.
- 2015 Pontzer, H. Energy expenditure in humans and other primates: a new synthesis. *Annual Review of Anthropology*. 44, 169-187.
- 2015 Pontzer, H. Constrained total energy expenditure and the evolutionary biology of energy balance. *Exercise and Sport Sciences Reviews*. 43, 110-116.
- 2015 Pontzer, H., Raichlen, D.A., Wood, B.M., Emery Thompson, M., Racette, S.B., Mabulla, A.Z.P., Marlowe, F.M. Energy expenditure and activity among Hadza hunter-gatherers. *American Journal of Human Biology*. 27, 628-37.
- 2015 \*Warrener, A.G., Lewton, K.L., Pontzer, H., Lieberman, D.E. A wider pelvis does not increase locomotor cost in humans, with implications for the evolution of childbirth. *PLoS ONE*. 10, e0118903.
- 2014 Pontzer, H., Raichlen, D.A., Gordon, A.D. Schroepfer-Walker, K.K., Hare, B., Dunsworth, H.M., Wood, B.M., ... Ross, S.R. Primate energy expenditure and life history. *Proceedings of the National Academy of Sciences USA*. 111, 1433-7.
- 2014 Wood, B.M., Pontzer, H., Raichlen, D.A., Marlowe, F.W. Mutualism and manipulation in Hadza-honeyguide interactions. *Evolution & Human Behavior*. 35, 540-546.
- 2014 Raichlen, D.A., Wood, B.M., Gordon, A.D., Mabulla, A.Z.P., Marlowe, F.W., Pontzer, H. Evidence of Lévy walk foraging patterns in human hunter-gatherers. *Proceedings of the National Academy of Sciences USA*. 111, 728-33.
- 2014 Pontzer, H., \*Suchman, K., Raichlen, D.A., Wood, B.M., Mabulla, A.Z.P., Marlowe, F.M. Foot strike patterns and hind limb joint angles during running in Hadza hunter-gatherers. *Journal of Sport and Health Science*. 3, 95-101.
- 2014 Pontzer, H., Raichlen, D.A., Rodman, P.S. Bipedal and quadrupedal locomotion in chimpanzees. *Journal of Human Evolution*. 66, 64-82.
- 2014 Pontzer, H., Antón, S.C., Lordkipanidze, D. Dmanisi hominins and archaeology. In: Smith, C. (ed.) *Encyclopedia of Global Archaeology*. pp 2146-2149.

- 2014 Raubenheimer, D., Rothman, J.M., Pontzer, H. Macronutrient contributions of insects to the diets of hunter-gatherers: a geometric analysis. *Journal of Human Evolution*. 71, 70-76.
- 2013 Raichlen, D.A., Pontzer, H., Shapiro, L.J. A new look at the Dynamic Similarity Hypothesis: the importance of swing phase. *Biology Open*. 0, 1-5.
- 2013 Barak, M.M., Lieberman, D.E., Raichlen, D., Pontzer, H., Warrener, A.G., Hublin, J.J. Trabecular evidence for a human-like gait in *Australopithecus africanus*. *PLoS ONE*. 8, e77687.
- 2013 Foster, A.D., Raichlen, D.A., Pontzer, H. Muscle force production during bent-knee, bent-hip walking in humans. *Journal of Human Evolution*. 65, 294-302.
- 2012 Pontzer, H., Raichlen, D.A., Wood, B.M., Racette, S.B., Mabulla, A.Z., Marlowe, F.W. Hunter-gatherer energetics and modern human obesity. *PLoS ONE*. 7, e40503.
- 2012 Pontzer, H. Relating ranging ecology, limb length, and locomotor economy in terrestrial animals. *Journal of Theoretical Biology*. 296, 6-12.
- 2012 Pontzer, H. Ecological energetics in early *Homo*. *Current Anthropology*. S346-S358.
- 2012 Dunsworth, H.M., \*Warrener, A., Deacon, T., Ellison, P., Pontzer, H. Metabolic hypothesis for human altriciality. *Proceedings of the National Academy of Sciences USA*. 109, 15212-15216.
- 2012 Pontzer, H. Overview of hominin evolution. *Nature Education Knowledge*. 3, 8.
- 2011 Pontzer, H., Raichlen, D.A., Sockol, M.D. From treadmill to tropics: calculating ranging cost in chimpanzees. In: D'Aout, K. and Vereecke, E.E. (eds) *Studying Primate Locomotion: Linking Laboratory and Field Research*. Springer. pp 289-309.
- 2011 Pontzer, H., Scott, J.R., Lordkipanidze, D., Ungar, P.S. Dental microwear texture analysis and diet in the Dmanisi hominins. *Journal of Human Evolution*. 61, 683-687.
- 2011 \*Orkin, J., Pontzer, H. The Narrow Niche hypothesis: gray squirrels shed new light on primate origins. *American Journal of Physical Anthropology*. 144, 617-24.
- 2010 Pontzer, H., Raichlen, D.A., Shumaker, R.W., \*Ocobock, C., Wich, S.A. Metabolic adaptation for low energy throughput in orangutans. *Proceedings of the National Academy of Sciences USA*. 107, 14048-14052.
- 2010 Pontzer, H., Rolian, C., Rightmire, G.P., Jashashvili, T., Ponce de León, M.S., Lordkipanidze, D., Zollikofer, C.P.E. Locomotor anatomy and biomechanics of the Dmanisi hominins. *Journal of Human Evolution*. 58, 492-504.
- 2010 \*Cowgill, L.W., \*Warrener, A., Pontzer, H., \*Ocobock, C. Waddling and toddling: the biomechanical effects of an immature gait. *American Journal of Physical Anthropology*. 143, 52-61.
- 2009 Pontzer, H., Allen, V., Hutchinson, J.R. Biomechanics of running indicates endothermy in bipedal dinosaurs. *PLoS ONE*. 4, e7783.
- 2009 Pontzer, H., Kamilar, J.M. Great ranging associated with greater reproductive investment in mammals. *Proceedings of the National Academy of Sciences, USA*. 106, 192-196.
- 2009 Raichlen, D.A., Shapiro, L.J., Pontzer, H., Sockol, M.D. Understanding increased hind limb weight support in chimpanzees and the evolution of primate kinetics. *American Journal of Physical Anthropology*. 138, 395-402.

- 2009 Pontzer, H., \*Holloway, J., Raichlen, D.A., Lieberman, D.E. Control and function of arm swing in human walking and running. *Journal of Experimental Biology*. 212, 523-534
- 2009 Pontzer, H., Raichlen, D.A., Sockol, M.D. The metabolic cost of walking in humans, chimpanzees, and early hominins. *Journal of Human Evolution*. 56, 43-54.
- 2008 Raichlen, D.A., Pontzer, H., Sockol, M.D. The Laetoli footprints and early hominin kinematics. *Journal of Human Evolution*. 54, 112-117.
- 2008 Carter, M.L., Pontzer, H., Wrangham, R.W., Kerbis Peterhans, J. Skeletal pathology in *Pan troglodytes schweinfurthii* in Kibale National Park, Uganda. *American Journal of Physical Anthropology*. 135, 389-403.
- 2007 Sockol, M.D., Raichlen, D.A., Pontzer, H. Chimpanzee locomotor energetics and the origin of human bipedalism. *Proceedings of the National Academy of Sciences, USA*. 30, 12265-12269.
- 2007 Lordkipanidze, D., Jashashvili, T., Vekua, V., Ponce de Leon, M.S., Zollikofer, C.P.E., Rightmire, G.P., Pontzer, H., Ferring, R., Oms, O., Tappen, M., et al. Postcranial evidence from early *Homo* from Dmanisi, Georgia. *Nature*. 449, 305-310.
- 2007 Pontzer, H. Limb length and the scaling of locomotor cost in terrestrial animals. *Journal of Experimental Biology*. 210, 1752-1761.
- 2007 Pontzer, H. Predicting locomotor cost in terrestrial animals: a test of the LiMb model in humans and quadrupeds. *Journal of Experimental Biology*. 210, 484-494.
- 2006 Lieberman, D.E., Raichlen, D.A., Pontzer, H., Bramble, D.M., Cutright-Smith, E. The human gluteus maximus and its role in running. *Journal of Experimental Biology*. 209, 2143-2155.
- 2006 Pontzer, H., Lieberman, D.E., Momin E., Devlin, M., Polk, J.D., Hallgrímsson, B., Cooper, D.M.L. Trabecular bone in the knee responds with high sensitivity to changes in load orientation. *Journal of Experimental Biology*. 209, 57-65.
- 2006 Pontzer, H., Wrangham, R.W., The ontogeny of ranging in wild chimpanzees. *International Journal of Primatology*. 27, 295-309.
- 2005 Pontzer, H. A new model predicting locomotor cost from limb length via force production. *Journal of Experimental Biology*. 208, 1513-1524.
- 2004 Pontzer, H., Wrangham R.W. Climbing and the daily energy cost of locomotion in wild chimpanzees: Implications for hominoid locomotor evolution. *Journal of Human Evolution*. 46, 315-333.

#### **Invited Book Reviews**

- 2014 Pontzer, H. Review of *Early Hominin Paleoecology*. Sponheimer, M., Lee-Thorp, J.A., Reed, K.E., and Ungar, P.S. (eds). *American Journal of Human Biology*.
- 2010 Pontzer, H. Review of *The Human Lineage*, by M. Cartmill and F.H. Smith. *Quarterly Review of Biology*. 85, 91.

#### **Invited Colloquium Presentations**

- 2016 Metabolic Evolution and Adaptive Strategies in Humans and other Primates  
*SUNY Stony Brook, Behavioral Ecology Group*
- 2016 Humans, the high energy ape  
*CARTA Origins of Homo Symposium*

- 2015 Life in slow motion: Energetics, aging, and evolution in humans & other primates  
*Univ. of Calgary, Dept. of Anthropology*
- 2015 Ecological energetics in human evolution  
*UC Santa Barbara, Dept. of Anthropology*
- 2014 Brains, babies and bipedalism: The evolution of the human metabolic strategy  
*George Washington University, Center for the Advanced Study of Human Paleobiology*
- 2014 Healthy as a Hadza: Hunter gatherer energetics and modern human obesity  
*Loyola University Medical School*
- 2014 Hunter gatherer energetics and modern human obesity  
*Beth Israel Medical Center Division of Endocrinology. Grand Rounds.*
- 2014 Brains, babies and bipedalism: The evolution of the human metabolic strategy  
*Harvard University, Dept. of Human Evolutionary Biology*
- 2014 Operating requirements for the human body  
*Dartmouth College, Dept. of Anthropology*
- 2013 Life in slow motion: Energetics, aging, and evolution in humans & other primates  
*New York Academy of Science*
- 2013 Primate energetics and life history  
*American Museum of Natural History, Comparative Biology Seminar*
- 2013 Doubly labeled water measures of energy expenditure in humans & other primates  
*Albert Einstein College of Medicine*
- 2013 Walking tour of human evolution  
*Max Planck Institute for Evolutionary Anthropology. Leipzig, Germany*
- 2013 Primate energetics and life history  
*Yale University, Dept. of Anthropology*
- 2013 Walking tour of human evolution  
*University of Connecticut, Dept. of Anthropology*
- 2012 Hunter-gatherer energetics and modern human obesity  
*Obesity Research Center, Columbia University & St. Luke's Hospital*
- 2012 Life in slow motion: Primate energetics and life history  
*SUNY Stony Brook, Dept. of Anthropology*
- 2012 Metabolism and life history in apes, humans, and fossil hominins  
*University of New Mexico, Dept. of Anthropology*
- 2011 Humans, the high energy ape  
*Arizona State University, Dept. of Anthropology*
- 2011 Hunter gatherer energetics and the evolution of the human metabolic strategy  
*Rutgers University, Dept. of Anthropology*
- 2010 Evolved metabolic strategies in humans and other apes  
*University of California Davis, Dept. of Anthropology*
- 2010 Evolved metabolic strategies in humans and other apes  
*University of California Santa Cruz, Dept. of Anthropology*
- 2009 Ape energetics and the Human Paradox  
*University of Missouri, Dept. of Anthropology*

- 2009 Are orangutans the most efficient ape? Daily energy expenditure in hominoids.  
*Yale University, Dept. of Anthropology*
- 2008 Mechanics and energetics of terrestrial locomotion.  
*Somatics of Dance Lecture Series, Washington University.*
- 2008 Walking energetics in humans and chimpanzees: are humans the only efficient ape?  
*Washington University Physical Therapy Research Group.*
- 2006 The effect of leg length on locomotor performance.  
*5th World Congress of Biomechanics. Session Chair: Dr. Alberto Minetti*
- 2006 Limb design and locomotor performance in humans and other animals.  
*Stanford NeuroMuscular Biomechanics Lab.*
- 2005 Limb length and locomotor cost, from ants to elephants.  
*SUNY Stony Brook Functional Morphology Group.*

### **Public Lectures & Other Outreach**

- 2016 Uncovering the truth  
*Studio 360, Story Collider and WNYC storytelling event. The Greene Space, New York.*
- 2016 Where are you from? Exploring our hunter-gatherer past  
*Rockefeller University, Summer Science Research Program*
- 2016 Energetics and the Ecology of Early *Homo*  
*CARTA Public Lecture, Origins of Homo Symposium.*
- 2016 Where are we from?  
*Presentation on Hadza hunter-gatherers to Léman Manhattan Prep. School, New York.*
- 2016 Negative results  
*Story for Horsetrade STEM Fest & Long Story Long. Kraine Theater, New York.*
- 2016 Where are we from?  
*Presentation on Hadza hunter-gatherers to St. Mary's Area Middle School, PA.*
- 2015 Consultant, Pine Grove STEM Magnet School. Jackson, CA  
*Worked with teacher Tim Keys on semester-long 5<sup>th</sup>/6<sup>th</sup> grade human ecology project*
- 2015 Design requirements for the human body: Insights from hunter-gatherers  
*Meet the Scientist, American Museum of Natural History. Sackler Laboratory.*
- 2014 Consultant, Boston Museum of Science  
*Hall of Human Life. Curator: Elizabeth Kong*
- 2014 Brain Power: The other 90%. Do we only use 10% of our brain?  
*American Museum of Natural History. Salon Series.*
- 2013 The science behind the seven deadly sins: Sloth  
*Philadelphia Science Festival, Franklin Institute*
- 2013 Featured Scientist, *Against All Odds: Inside Statistics*, #27 *Comparing Two Means*  
*Annenberg Learner, <http://www.learner.org/resources/series65.html>*
- 2010 Out of Africa 1.0: the Dmanisi hominins  
*Darwin Day Public Address; Univ. of Arkansas, Little Rock*
- 2009 Panel Discussant, *Chance Aesthetics* Public Exhibition  
*Mildred Kemper Art Museum, Washington University. Curator: Meredith Malone*

- 2006 The evolution of bipedalism in humans  
Science on Tap *Public Lecture, Schlafly Bottleworks, St. Louis*
- 2006 Consultant, Boston Museum of Science  
*Human Physiology and Anatomy Exhibit. Curator: Tim Kardatzke*
- 2004 Science Advisor, National Geographic Television

### **Conference Presentations (\*student, †invited)**

- 2016 Pontzer, H., Brown, M.H., Emery Thompson, M., Ross, S.R. Chimpanzee energetics, ecology, and evolution. *Chimpanzees in Context Symposium.*
- 2016 †Pontzer, H. Insights into physical activity and metabolic adaptation from hunter gatherers and other traditional populations. *American College of Sports Medicine. Basic Science World Congress – Symposium.*
- 2016 \*Finestone, E.M., Brown, M.H., Ross, S.R., Pontzer, H. Videographic analysis of kinematics in great apes: To what extent are gait and posture conserved? *AAPA Meetings.*
- 2016 \*Thurber, C., Carlson, B., Ocobock, C., Dugas, L., Pontzer, H. Metabolic limits and adaptation in humans: daily energy expenditure in *Race Across the USA* athletes. *AAPA Meetings.*
- 2016 \*Laird, M.F., Pontzer, H. Gape cycle kinematic variance and occlusal topography in modern humans. *AAPA Meetings.*
- 2016 Raichlen, D.A., Pontzer, H., Harris, J., Zderic, T.W., Hamilton, M.T., Wood, B. Sitting, squatting, and the evolution of human inactivity. *AAPA Meetings.*
- 2016 \*Edwards, W., Pontzer, H., Lonsdorf, E. Energy expenditure and physical activity levels in captive tufted capuchins (*Cebus apella*). *AAPA Meetings.*
- 2016 Pontzer, H., Raichlen, D.A., Harris, J.A., Wood, B.M. Energetics and economics of foraging in humans and other apes. *AAPA Meetings.*
- 2016 \*Kozma, E.E., Raichlen, D.A., Wood, B.M., Pontzer, H. Energetics and muscle use of human climbing. *AAPA Meetings.*
- 2015 \*Laird, M.F., Pontzer, H., Vogel, E.R. Chewing efficiency variation with food material properties and masticatory morphology in humans. *AAPA Meetings.*
- 2015 †Pontzer, H. Locomotion in humans and other primates: Endurance, efficiency, and evolution. *International Congress for Physiological Anthropology.* Chiba, Japan.
- 2015 \*Laird, M.F., Pontzer, H., Vogel, E.R. Chewing efficiency variation with food material properties and masticatory morphology in humans. *AAPA Meetings.*
- 2015 Trumble, B.C., Cummings, D., Beheim, B., Stieglitz, J., Yetish, G., Pontzer, H., Kaplan, H., Gurven, M. Energetic costs of testosterone: higher testosterone is associated with greater lean muscle mass and total energetic expenditure among Tsimane forager-horticulturalists. *AAPA Meetings.*
- 2015 Pontzer, H., Brown, M.H., Dunsworth, H.M., Ross, S.R. Humans, the high energy ape. *AAPA Meetings.*
- 2014 †Pontzer, H., Wood, B.M., Raichlen, D.A., Mabulla, A.Z.P., Marlowe, F.W. Ranging energetics and foraging strategies among Hadza hunter-gatherers. *Am. Anthro. Assoc.*



- 2014 †Pontzer, H. Recent advances & future directions: measuring total energy expenditure in non-human apes. *Int'l Workshop on the Doubly Labeled Water Method*. Tokyo.
- 2014 †Pontzer, H. Recent advances & future directions: measuring total energy expenditure in traditional populations. *Int'l Workshop on the Doubly Labeled Water Method*. Tokyo.
- 2014 †Pontzer, H., Brown, M.H., Ross, S.R. Total energy expenditure and life history in humans and other apes. *Recent Advances & Controversies in Measuring Energy Metabolism*.
- 2014 †Pontzer, H. A walking tour of human evolution. *World Congress of Biomechanics*.
- 2014 Pontzer, H., Raichlen, D.A., Schroepfer, K.K., Hare, B., Wood, B.M., Dunsworth, H.M., Irwin, M., Lonsdorf, E.V., Shumaker, R.W., Ross, S. Daily water throughput in humans and other primates. *AAPA Meetings*.
- 2013 †Pontzer, H., Raichlen, D.A., Wood, B.M., Mabulla, A.Z., Marlowe, F.W. Ranging costs and foraging strategies in Hadza hunter-gatherers. *10<sup>th</sup> International Congress on Vertebrate Morphology*.
- 2013 †Pontzer, H., Raichlen, D.A., Wood, B.M., Mabulla, A.Z., Marlowe, F.W. Ranging costs and foraging strategies in Hadza hunter-gatherers. *Conference on Hunting and Gathering Societies*.
- 2013 Pontzer, H., Raichlen, D.A., Gordon, A., Schroepfer, K.K., Hare, B., Wood, B.M., Dunsworth, H.M., Irwin, M., Lonsdorf, E.V., Ross, S. Primate energetics and life history. *AAPA Meetings*.
- 2012 †Pontzer, H. Relating foraging ecology to locomotor economy and limb length in living apes and fossil hominins. *AAPA Meetings*.
- 2012 \*Laird, M.F., Pontzer, H. Biomechanical relationships between chewing efficiency and dental morphology in modern humans. *AAPA Meetings*.
- 2012 Schroepfer, K.K., Hare, B., Pontzer, H. Energy expenditure in semi free-ranging chimpanzees measured using doubly labeled water. *AAPA Meetings*.
- 2012 Raichlen, D.A., Pontzer, H., Wood, B.M., Mabulla, A.Z., Marlowe, F.W. Aerobic activity in the Hadza hunter-foragers of Tanzania. *AAPA Meetings*.
- 2011 Pontzer, H., Raichlen, D.A., Wood, B.M., Mabulla, A.Z., Marlowe, F.W. Hadza forager energetics and the evolution of the human metabolic strategy. *AAPA Meetings*. *AJPA*. S52, 242.
- 2011 \*Ocobock, C., Pontzer, H., Gookin, J., Baynes, S. Daily energy expenditure in highly active humans in a natural temperate environment. *AAPA Meetings*. *AJPA*. S52, 227.
- 2011 Dunsworth, H., Pontzer, H., Deacon, T. Energetics—not pelvic constraints—determine human gestation length and altriciality. *AAPA Meetings*. *AJPA*. S52, 129.
- 2011 Raichlen, D.A., Wood, B.M., Pontzer, H., Mabulla, A.Z., Marlowe, F.W. Levy walks in hunter-gatherers: when are random walks an optimal search strategy? *AAPA Meetings*. *AJPA*. S52, 246.
- 2011 Wood, B.M., Raichlen, D.A., Pontzer, H., Jones, J.H., Mabulla, A.Z., Marlowe, F.W. Keeping their friends close? Contrasting models of social association in Hadza hunter-gatherers. *AAPA Meetings*. *AJPA*. 314.
- 2010 Pontzer, H., Raichlen, D.A., Wood, B.M. Hominoid daily energy expenditure and the Human Paradox. *AAPA Meetings*. *AJPA*. S50, 91.

- 2010 \*Joganic, J.L., Pontzer, H., Verrelli, B.C. The hungry brain: An assessment of liver size correlation with brain size as it relates to energy storage trade-offs across primate evolution. *AAPA Meetings. AJPA. S50, 135.*
- 2010 \*Ocobock, C., Pontzer, H., \*Erez, T. Climatic and physiological constraints on human body size and shape. *AAPA Meetings. AJPA. S50, 180.*
- 2009 Pontzer, H., \*Ocobock, C., Shumaker, R.W., Raichlen, D.A. Daily energy expenditure in orangutans measured using doubly labeled water. *AAPA Meetings. AJPA. S48, 213.*
- 2009 \*Erez, T., Smart, W.D., Pontzer, H. A new computational method for simulation and optimization of hominin gait. *AAPA Meetings. AJPA. S48, 125*
- 2009 Foster, A.D., Raichlen, D.A., Pontzer, H., Sockol, M.D. Muscle force production during bent-knee, bent-hip walking in humans. *AAPA Meetings. AJPA. S48, 129.*
- 2009 \*Ocobock, C., Pontzer, H., \*Atkinson, E., Shumaker, R.W., \*Wittman, A.B. Locomotor developmental timing in humans and other apes. *AAPA Meetings. AJPA. S48, 201*
- 2009 Pontzer, H., Kamilar, J.M. Great ranging associated with greater reproductive investment in mammals. *Soc. Integ. Comp. Biol. Meetings.*
- 2008 †Pontzer, H., Raichlen, D.A., Sockol, M.D. Endurance versus efficiency in humans and chimpanzees: a new look at the old problem of becoming bipedal. *Hominin Bipedalism Symposium, AAPA Meetings.*
- 2007 Pontzer, H., Raichlen, D.A., Lieberman, D.E. Is arm swing active or passive during human walking and running? *Soc. Integ. Comp. Biol. Meetings.*
- 2007 †Pontzer, H., Raichlen, D.A., Sockol, M.D., Locomotor energetics in chimpanzees, humans, and extinct hominins: contributions of muscular and skeletal anatomy. *8<sup>th</sup> International Congress on Vertebrate Morphology.*
- 2007 Pontzer, H., Raichlen, D.A., Sockol, M.D., Contributions of muscular and skeletal morphology to locomotor performance: How much can bones tell us about locomotion? *Primate Locomotion Symposium, American Assoc. Phys. Anthro. Meetings*
- 2006 Pontzer, H. Hominin locomotor energetics and the emergence of the genus *Homo*. *Paleoanthropology Society Meetings.*
- 2006 Pontzer, H. Locomotor energetics and ranging ecology of fossil hominids. *AAPA Meetings. AJPA. S42, 148.* Awarded Aleš Hrdlička Prize.
- 2006 Pontzer, H. Linking locomotor energetics to limb design in terrestrial animals. *Soc. Integ. Comp. Biol. Meetings.* Awarded D. Dwight Davis Prize.
- 2005 Pontzer, H. The effect of limb length on locomotor performance. *Soc. Integ. Comp. Biol. Meetings.*
- 2005 Pontzer, H., Lieberman, D.E., Momin, E.N., et al. The effect of a "bent-knee" gait on trabecular orientation: an experiment test of Wolff's Law. *AJPA. S40, 167.*
- 2004 Pontzer, H. The effect of leg length on human locomotor performance. *AAPA Meetings. AJPA. S38, 161.*
- 2004 Wrangham, R.W., Pontzer, H. Chimpanzee juveniles constrain their mothers' gregariousness. *AAPA Meetings. AJPA. S38, 211.*
- 2003 Pontzer, H. Climbing behavior and locomotor energetics in wild chimpanzees: Implications for hominin locomotor evolution. *AAPA Meetings. AJPA. S36, 170.*

## **Professional Service**

- 2015, '16 National Science Foundation review panel, Physical Anthropology
- 2014 Co-Organizer, *Energetics in the Evolution of Human and Non-Human Primate Life Histories Symposium*, 2015 AAPA meeting (with Christopher Kuzawa)
- 2009, 13-16 Scientific Committee, *AAPA meetings*
- 2013, '14 Organizer, K-12 Educator Meet-Up, *AAPA meetings*
- 2011 – 13 Associate Editor, *Journal of Human Evolution*
- 2006 – 11 Student Prize Committee, *AAPA meetings*
- 2007 Co-Organizer, *Principles of Primate Locomotion Symposium*, *AAPA meetings* (with David Raichlen)
- 2002 – 04 Co-Organizer, New England Biological Anthropology Symposium

## **Student Advising**

### *PhD Dissertation Advisor*

- Elaine Kozma (CUNY Grad. Center, NYCEP)
- Cara Ocobock (PhD 2014, Washington Univ.)
- Kristin Ramirez (CUNY Grad. Center, NYCEP)
- Zane Swanson (CUNY Grad. Center, NYCEP)
- Anna Warrener (PhD 2011, Washington Univ.)

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- Libby Cowgill (PhD 2008, Washington Univ.)
- Emma Cancelliere (CUNY Grad. Center, NYCEP)
- Margaret Bryer (CUNY Grad. Center, NYCEP)
- Rachel Dunn (PhD 2009, Washington Univ.)
- Tom Erez (PhD 2011, Wash. Univ., Comp. Sci.)
- Emma Finestone (CUNY Grad. Center, NYCEP)
- Caley Johnson (CUNY Grad. Center, NYCEP)
- Zachary Klukkert (CUNY Grad. Center, NYCEP)
- Myra Laird (PhD 2016, New York Univ.)
- Julia Maki (PhD 2013, Washington Univ.)
- Wade Ryberg (PhD 2009, Wash. Univ., Biology)
- Brian Shearer (CUNY Grad. Center, NYCEP)
- Nicole Webb (CUNY Grad. Center, NYCEP)

### *MA Students*

- Tricia Basdeo (MA 2014, Hunter College)
- Maria Rose Darr (MA 2013, New York Univ.)
- Wren Edwards (MA 2106, Hunter College)
- Alexandra Luoppova (Hunter College)
- Kendall Phelps (MA 2014, Hunter College)
- Alaina Schneider (Hunter College)
- Caitlin Thurber (MA 2016, Hunter College)
- Stephen Venner (Hunter College)