

## CURRICULUM VITAE

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### **Educational History**

B.A.	1990	University of Texas at Austin
M.A.	1995	State University of New York at Stony Brook
Ph.D.	1997	State University of New York at Stony Brook

Dissertation: "Postcranial Morphology and the Origin of Modern Humans"

### **Employment History**

Fall, 2005-	Associate Professor, Department of Anthropology, University of New Mexico.
1999-2005	Assistant Professor, Department of Anthropology, University of New Mexico.
1998-1999	Postdoctoral Research Associate, Department of Anthropology, George Washington University
1998-1999	Adjunct Instructor, Department of Anatomy and Cell Biology, George Washington University School of Medicine and Health Sciences
1997 - 1998	Postdoctoral Associate, Department of Anthropology, Rutgers University

### **Honors and Awards**

2010	Regents' Lecturer of Anthropology, University of New Mexico
1991-1993	NSF Graduate Fellow, State University of New York at Stony Brook
1986-1990	National Merit Scholar, University of Texas at Austin

### **SCHOLARLY ACHIEVEMENTS**

#### **Articles in refereed journals**

- n.d. Wallace, I. J., Demes, B., Mongle, C., Pearson, O. M., Polk, J. D., and Lieberman, D. E. Exercise-induced bone formation is poorly linked to local strain magnitude in the sheep tibia. *PLoS One* (submitted).
- n.d. Rabenold, D., Pearson O. M. Scratching the surface: a critique of Lucas et al. (2013)'s conclusion that phytoliths do not abrade enamel. *Journal of Human Evolution* (in press).
- n.d. Hovers E, Pleurdeau D, Assefa Z, Asrat A, Pearson O, Lam YM. After the dispersal: Cultural change or continuity in the late MSA / early LSA of southeastern Ethiopia? *Quaternary International* (in press).
- n.d Assefa, Z., D. Pleurdeau, E. Hovers, A. Asrat, O. Pearson, F. Duquesenoy, and Y. M. Lam. Survey and explorations of caves in southeastern Ethiopia: Middle Stone Age and Later Stone Age archaeology and Holocene rock art. *Quaternary International* (PDF published online in August, 2013).
- 2013 Pearson, O. M. Hominin evolution in the Middle-Late Pleistocene: fossils, adaptive scenarios, and alternatives. *Current Anthropology* 54 Supplement 8: S221-S233.
- 2013 Bruner, E. and Pearson, O. Cranial evolution in modern humans: the case of Jebel Irhoud 1. *Journal of Anthropological Science (Japan)* 121: 31-41.
- 2011 Rabenold, D., and Pearson, O. M. Abrasive, silica phytoliths and the evolution of thick molar enamel in primates, with implications for the diet of *Paranthropus boisei*. *PLoS One* 6: e28379.
- 2011 Sparacello, V. S., O. M. Pearson, A. Coppa, and D. Marchi. Changes in skeletal robusticity in an Iron Age agropastoral group: the Samnites from the Alfedena necropolis (Abruzzo, Central Italy). *American Journal of Physical Anthropology* 144: 119-130.
- 2010 Sparacello, V. S. and O. M. Pearson. The importance of accounting for the area of the medullary cavity in cross-sectional geometry: a test based on the femoral midshaft. *American Journal of Physical Anthropology* 143: 612-624.
- 2010 Baker, J., M. Workman, E. Bedrick, M. A. Frey, M. Hurtado, and O. Pearson. Brains versus brawn: an empirical test of Barker's brain sparing model. *American Journal of Human Biology* 22: 206-215.
- 2009 Baker, J., A. M. Hurtado, O. M. Pearson, K. R. Hill, T. Jones, and M. A. Frey. Developmental plasticity in fat patterning of Ache children in response to variation in interbirth intervals: a preliminary test of the roles of external environment and maternal reproductive strategies. *American Journal of Human Biology* 21: 77-83.
- 2008 Pearson, O. M., F. E. Grine, J. G. Fleagle, and D. F. Royer. Brief report on new hominin fossils from elsewhere in the Kibish Formation, southwestern Ethiopia. *Journal of Human Evolution* 55: 444-447.
- 2008 Pearson, O. M., F. E. Grine, J. G. Fleagle, and D. F. Royer. A description of the Omo 1 postcranial skeleton, including newly discovered fossils. *Journal of Human Evolution* 55: 421-437.
- 2008 Pearson, O. M. Statistical and biological definitions of "anatomically modern" humans: suggestions for an integrated approach to modern morphology. *Evolutionary Anthropology* 17: 38-48.

- 2007 Carlson, K. J., Grine, F. E., and Pearson, O. M. Robusticity and sexual dimorphism in the postcranium of modern hunter-gatherers from Australia. *American Journal of Physical Anthropology* 134: 9-23.
- 2007 Hanson, T. E. and Pearson, O. M. Fitting MANOVA models with missing continuous data using reference priors. *Communications in Statistics – Simulation and Computation* 36: 621-630.
- 2006 Pearson, O. M., and Busby, A. M. Physique and ecogeographic adaptations of the Last Interglacial Neandertals from Krapina. *Periodicum Biologorum* 108: 449-455.
- 2006 Baker, J., and Pearson, O. M. Statistical methods in bioarchaeology: applications of age-adjustment and logistic regression to comparisons of skeletal populations with differing age-structures. *Journal of Archaeological Science* 33:218-226.
- 2005 Pearson, O. M. and Millones, M. Rasgos esqueléticos de adaptación al clima y a la actividad entre los habitantes aborígenes de Tierra del Fuego (Skeletal traces of adaptation to climate and activity among the aboriginal inhabitants of Tierra del Fuego). *Magellania* 33: 37-50.
- 2005 Lam, Y. M. and Pearson, O. M. Bone density studies and the interpretation of the faunal record. *Evolutionary Anthropology* 14: 99-108.
- 2004 Lam, Y. M. and O. M. Pearson. The fallibility of bone density values and their use in archaeological analyses. *Journal of Taphonomy* 2: 99-115.
- 2004 Pearson, O. M. and D. E. Lieberman. The aging of Wolff's "Law." Ontogeny and responses to mechanical loading in cortical bone. *Yearbook of Physical Anthropology* 47: 63-99.
- 2004 Pearson, O. M. Has the combination of genetic and fossil data solved the riddle of the origin of modern humans? *Evolutionary Anthropology* 13: 145-159.
- 2003 Lam, Y. M., Pearson, O. M., Marean, C. W., and Chen, X. Bone density studies in zooarchaeology. *Journal of Archaeological Science* 30: 1701-1708.
- 2003 Lieberman, D. E., Pearson, O. M., Polk, J. D., Demes, B., and Crompton, A. W. Optimization of bone growth and remodeling in response to loading in tapered mammalian limbs. *Experimental Biology* 206: 3125-3138.
- 2001 Lieberman, D. E., M. J. Devlin, and O. M. Pearson. Articular surface area responses to mechanical loading: Effects of exercise, age, and skeletal location. *American Journal of Physical Anthropology* 116: 266-277.
- 2001 Lieberman, D. E. and Pearson, O. M. Trade-off between modeling and remodeling responses to loading in the mammalian limb. *Bulletin of the Museum of Comparative Zoology* 156: 269-282.
- 2001 Mercader, J., Garralda, M. D., Pearson, O. M., and Bailey, R. C. Eight hundred-year-old human remains from the Ituri tropical forest, Democratic Republic of Congo: The rock shelter site of Matangai Turu Northwest. *American Journal of Physical Anthropology* 115: 24-37.
- 2000 Pearson, O. M. Postcranial remains and the origin of modern humans. *Evolutionary Anthropology* 9: 229-247.

- 2000 Pearson, O. M. Activity, climate, and postcranial robusticity: Implications for modern human origins and scenarios of adaptive change. *Current Anthropology* 41: 569-607
- 2000 Lieberman, D. E., Pearson, O. M. and Mowbray, K. M. Basicranial influence on overall cranial shape *Journal of Human Evolution* 38: 291-315.
- 1999 Lam, Y. M., Chen, X., and Pearson, O. M. Intertaxonomic variability in patterns of bone density and the differential representation of bovid, cervid, and equid elements in the archaeological record. *American Antiquity* 64: 343-362.
- 1998 Grine, F. E., Pearson, O. M., Klein, R. G., and Rightmire, G. P. Additional human fossils from Klasies River Mouth, South Africa. *Journal of Human Evolution*.35: 95-107.
- 1997 Pearson, O. M. and Grine, F. E. Re-analysis of the hominid radii from Cave of Hearths and Klasies River Mouth, South Africa. *Journal of Human Evolution* 32: 577-592.
- 1996 Churchill, S.E., Pearson, O.M., Grine, F.E., Trinkaus, E., and Holliday, T.W. Morphological affinities of the proximal ulna from Klasies River Main Site: archaic or modern? *Journal of Human Evolution*.31:213-237.
- 1996 Pearson, O. M. and Grine, F. E. Morphology of the Border Cave hominid ulna and humerus. *South African Journal of Science* 92: 231-236.
- 1996 Lam, Y.M., Pearson, O.M., and Smith, C. M. Chin morphology and sexual dimorphism in the fossil hominid mandible sample from Klasies River Mouth. *American Journal of Physical Anthropology*.100: 545-557.
- 1995 Grine, F.E., Jungers, W.L., Tobias, P.V., and Pearson, O.M. Fossil *Homo* femur from Berg Aukas, northern Namibia. *American Journal of Physical Anthropology* 97: 151-185.

#### **Book chapters in edited volumes**

- n.d. Pearson, O. M., Sparacello, V. S. Behavioral differences between near eastern Neandertals and the early modern humans from Skhul and Qafzeh: an assessment based on comparative samples of Holocene humans. In: Hovers E, and Marom A, editors. *Human Paleontology and Prehistory: Contributions in Honor of Yoel Rak* (submitted).
- n.d. Pearson O. M., Petersen T. R., Sparacello V. S., Daneshvari S., Grine F. E. (in press) Activity, "body shape", and cross-sectional geometry of the femur and tibia. In: Carlson K, Marchi D (eds) *Mobility: Interpreting Behavior from Skeletal Adaptations and Environmental Interactions*. Springer, New York
- 2013 Pearson, O. M. Africa: the cradle of modern humans. In: *The Origins of Modern Humans: Biology Reconsidered*. Edited by F. H. Smith and J. C. Ahern. New York: Wiley-Blackwell, pp. 1-43.
- 2012 Pearson, O. M. Integration of the genetic, anatomical, and archaeological data for the African origin of modern humans: problems and prospects. In S. C. Reynolds and C. G. Menter (eds.): *African Genesis: Perspectives on Hominin Evolution*. Cambridge: Cambridge University Press, pp. 423-448.
- 2011 Pearson, O. M. Entries for: ADU-VP-1/3 (Aduma cranium), Ahmarian, Anthropogenic sediments, Art mobilier, Aurignacian, Berg Aukas, Blind River, Bodo, Bodo 1, Boskop, BOU-VP-16/1, Buia (Uadi Aalad), Buia cranium (UA 31), Buia pubis (UA 466), Die Kelders, Eliye Springs (KNM-ES 11693), Equus Cave, Eyasi, Fish Hoek, Fish Hoek 1, Florisbad, Florisbad 1, Foliate points, Gawis cranium, Gneiss inselberg, Gravettian,

Halibee, Herto, Hoedjiespunt, Hofmeyr, Hofmeyer skull, Hohle Fels, Iberomarusian, Ishango, Iron Age, Iwo Eleru, Jebel Sahaba, Kebaran, KGA 10-1, Klasies River Mouth, KNM-ER 736, KNM-ER 737, KNM-ER 738, KNM-ER 739, KNM-ER 741, KNM-ER 803, KNM-ER 813, KNM-ER 815, KNM-ER 993, KNM-ER 999, KNM-ER 1463, KNM-ER 1464, KNM-ER 1465, KNM-ER 1471, KNM-ER 1472, KNM-ER 1473, KNM-ER 1475, KNM-ER 1476, KNM-ER 1481, KNM-ER 1500, KNM-ER 1503-1505, KNM-ER 1591, KNM-ER 1592, KNM-ER 1807, KNM-ER 1808, KNM-ER 1809, KNM-ER 3228, KNM-ER 3728, KNM-ER 3735, KNM-ER 3884, KNM-ER 3888, KNM-ER 3951, KNM-ER 3956, KNM-ER 5428, KNM-ER 5881, KNM-ER 5882, KNM-ER 6020, Laetoli 18 (Ngaloba), Lainyamok, Lothagam LSA site, Lupemban, Revil Mason, Midden, Middle Paleolithic, Mousterian, Natufian, Ndutu 1, Neolithic, Nyabusosi (Behanga), OH 11, OH 22, OH 23, OH 51, Omo Kibish, Oranjemund, Pestle, Saldanha cranium, Sea Harvest, Singa, Singa 1, Tuinplaas, Tuinplaas skeleton, Wadi Dagadlé, and Wadi Halfa. In: B. A. Wood, editor, *Blackwell Dictionary of Human Evolution*. London: Blackwell.

- 2008 Pearson, O. M. Human evolution: radiations in the last 300,000 years (revised). In: *Encyclopedia of Life Sciences*. Crichester: John Wiley & Sons. 5 pp.
- 2008 Baker, J., Hurtado, M., Pearson, O., and Jones, T. Evolutionary medicine and obesity: developmental adaptive responses in human body composition. In: Trevathan, W. R., Smith, E. O., and McKenna, J. J. (eds) *Evolutionary Medicine and Health: New Perspectives*. Oxford University Press, New York, pp 314-324.
- 2006 Pearson, O. M., Cordero, R. M., and Busby, A. M. How different were Neanderthals' habitual activities? A comparative analysis with diverse groups of recent humans. In: K. Harvati and T. Harrison, Editors, *Neanderthals Revisited: New Approaches and Perspectives*. New York: Springer, pp. 89-111.
- 2006 Pearson, O. M. and Buikstra, J. E. Behavior and the bones. In J. E. Buikstra and L. A. Beck (eds.): *Bioarchaeology: The Contextual Analysis of Human Remains*. New York: Elsevier, pp. 207-225.
- 2001 Pearson, O. M. Human evolution: radiations in the last 300,000 years. In: *Encyclopaedia of Life Sciences*. London: Macmillan Reference Limited. (<http://www.els.net>).
- 2000 Pearson O., Grine, F., Barham, L., and Stringer, C. Human Postcranial Remains from the Middle and Later Stone Age of Mumbwa Caves. In L. Barham (ed.): *The Middle Stone Age of Zambia, South Central Africa*. Bristol: Western Academic & Specialist Press Ltd, pp. 149-164.
- 2000 Pearson, O. Appendix 8: Human remains from Twin Rivers. In L. Barham (ed.): *The Middle Stone Age of Zambia, South Central Africa*. Bristol: Western Academic and Specialist Press, pp. 281-282.

#### **Other writings (not peer-reviewed)**

- n.d. Pearson, O. M. Review of "Epigenetics: Linking Genotype and Phenotype in Development and Evolution," Edited by B. Hallgrímsson and B. K. Hall. *Homo* (submitted).
- 2012 Pearson, O. M. Review of "A Companion to Paleopathology," Edited by Anne L. Grauer. *Journal of Anthropological Research* 68: 564-565.
- 2011 Pearson, O. M. Book Review: "Cro-Magnon. How the Ice Age Gave Birth to the First Modern Humans." by Brian Fagan. *American Journal of Physical Anthropology* 145: 334-335.

- 2009 Pearson, O. M. Review of *Ancient Health: Skeletal Indicators of Agricultural and Economic Intensification*, edited by Mark Nathan Cohen and Gillian M. M. Crane-Kramer. *Journal of Anthropological Research* 65: 350-352.
- 2009 Pearson, O. M. Review of *Biological Anthropology of the Human Skeleton, second edition*, edited by M. A. Katzenberg and S. R. Saunders. *Quarterly Review of Biology* 84: 119.
- 2008 Pearson, O. M. Review of "Ethnobiology and the Science of Humankind," Edited by Roy Ellen. *Journal of Anthropological Research* 64: 296-297.
- 2008 Pearson, O. M. Review of Jeffrey H. Schwartz's *Skeleton Keys*, second edition. *Journal of Anthropological Research* 64: 129-130.
- 2007 Pearson, O. What is a Neanderthal? *Dig* (2007, September issue): 7-9.
- 2007 Pearson, O. Tooling around. *Dig* (2007, September issue): 21.
- 2007 Pearson, O. M. Modern human origins. *McGraw-Hill 2007 Yearbook of Science & Technology*. New York: McGraw-Hill, pp. 146-149.
- 2006 Pearson, O. M. Review of "The Chosen Species: The Long March of Human Evolution" by Juan Luis Arsuaga and Ignacio Martínez. *Journal of Anthropological Research* 62: 421-422.
- 2006 Pearson, O. M. Tobias and Taung turn eighty. *Evolutionary Anthropology* 15: 79-82.
- 2005 Pearson, O. M. Review of *The Human Fossil Record, Vol. 4. Craniodental Morphology of Early Hominins (Genera Australopithecus, Paranthropus, Orrorin), and Overview*, by Jeffrey H. Schwartz and Ian Tattersall. *Journal of Anthropological Research* 61: 535-536.
- 2005 Pearson, O. M. and Petersen, T. R. Comment on Reno et al, "Plio-Pleistocene Hominid Limb Proportions: Evolutionary Reversals or Estimation Errors?" *Current Anthropology* 46: 584.
- 2005 Edgar, H., Goff, A., and Pearson, O. Forensic applications of dental morphology in the Southwestern United States. *Proceedings of the 13<sup>th</sup> International Symposium on Dental Morphology, Lodz, Poland, August 2005*.
- 2004 Pearson, O. M. Review of *The Human Fossil Record. Volume 2. Craniodental Morphology of the Genus Homo (Africa and Asia)*, by Jeffrey Schwartz and Ian Tattersall. *Journal of Anthropological Research* 60: 130-131.
- 2003 Pearson, O. M. Review of *Lowly Origin: Where, When, and Why our Ancestors First Stood Up*, by Jonathan Kingdon. *Journal of Anthropological Research* 59: 333-335.
- 2003 Pearson, O. M. Review of *Neanderthal Burials: Excavation of the Dederiyeh Cave, Afrin, Syria*, edited by T. Akazawa and S. Muhesen. *Journal of Anthropological Research* 59: 335-336.
- 2003 Pearson, O. M. and Stone, A. C. On a diffusion wave as the genetic mechanism for spread of modern humans. *Current Anthropology* 44: 559-561.

- 2003 Pearson, O. M. Review of *Cycles of Contingency: Developmental Systems and Evolution*, edited by S. Oyama, P. E. Griffiths, and R. D. Gray. *Journal of Anthropological Research* 59: 303-304.
- 2003 Pearson, O. M. Comment on H. Leach's "Human domestication reconsidered" *Current Anthropology* 44: 362-363.
- 2001 Pearson, O. M. Review of Jon Kalb's "Adventures in the Bone Trade: The Race to Discover Human Ancestors in Ethiopia's Afar Depression." *Journal of Anthropological Research* 57: 87-88.
- 1999 Pearson, O. M. Review of "Conceptual Issues in Modern Human Origins Research", edited by G. A. Clark and C. M. Willermet. *American Antiquity* 64: 181-182.
- 1998 Pearson, O. M., Churchill, S. E., Grine, F. E., Trinkaus, E., and Holliday, T. W. Multivariate analyses of the hominid ulna from Klasies River Mouth. *Journal of Human Evolution*.34: 653-656.
- 1998 Pearson, O. M. *Postcranial Morphology and the Origin of Modern Humans*. Ph.D. dissertation, State University of New York at Stony Brook. Ann Arbor: University Microfilms International.

#### **Works in progress**

- n.d. Pearson, O. M., and M. Millones. On skeletal correlates of patterns of physical activity: Cautionary results from Tierra del Fuego. *American Journal of Physical Anthropology* (in preparation).
- n.d. Pearson, O. M., and T. E. Hanson. Bayesian discriminant analysis of postcranial skeletons and the origin of modern humans. *Journal of Human Evolution* (in preparation).

#### **Invited or refereed abstracts and/or presentations at professional meetings**

- 2012 Leplongeon A., Pleurdeau D., Hovers E., Asrat A., Pearson O., Assefa Z. A Middle to Later Stone Age shift in eastern Ethiopia? In: *Proceedings of the European Society for the study of Human Evolution 1* (PESHE), 2012, p.117.
- 2012 Pearson, O. M., Z. Assefa, D. Pleurdeau, E. Hovers, A. Asrat, Y. M. Lam, J. Bahain, A. LePlongeon, F. Duquesnoy, J.-L. Le Quellec, and C. T/Tsion. 2012. Human fossils from the Paleolithic of Buticha Cave, Ethiopia: results from excavations in 2008 and 2011 with a consideration of the taphonomical context. *American Journal of Physical Anthropology Supplement* 54: 235.
- 2011 Pearson, O., K. Krasnec, S. Daneshvari, and P. Holck. A possible case of acromegaly: the Viking chieftain buried in the Gokstad ship, Norway. Abstracts of the 2011 Meeting of the Paleopathology Association, April 2011, Minneapolis, Minnesota.
- 2011 Bruner, E. and O. Pearson. Neurocranial evolution in Middle Pleistocene: a paleoneurological study of Jebel Irhoud 1. *American Journal of Physical Anthropology Supplement* 52: 98-99.
- 2011 MacInnes, H. L. and O. M. Pearson. Dimensions of the birth canal and age at death in prehistoric New Mexican women: A test of evolutionary optimality. *American Journal of Physical Anthropology Supplement* 52: 202.

- 2011 Pearson, O. M., T. R. Petersen, V. S. Sparacello, S. Daneshvari, G. Mlady, and F. E. Grine. Activity, ontogeny, and cross-sectional geometry of the femur and tibia. *American Journal of Physical Anthropology Supplement 52*: 237.
- 2010 Cordero, R., V. S. Sparacello, and O. M. Pearson. The effects of terrain on cross-sectional geometric properties of the femur and tibia in two Puebloan populations from the Middle Rio Grande region. *American Journal of Physical Anthropology Supplement 50*:85 (Abstract).
- 2010 Pearson, O. M., and C. M. Stojanowski. Appendicular morphology and ecogeographic adaptations of the early Holocene skeletons from Gobero, Niger. *American Journal of Physical Anthropology Supplement 50*:187 (Abstract).
- 2010 Sparacello, V. S., O. M. Pearson, and L. Cowgill. Growing up in the Gravettian: ontogeny of cross-sectional geometry in the lower limb. *American Journal of Physical Anthropology Supplement 50*: 221 (Abstract).
- 2010 Jungers, W., A. Farke, T. Sutikna, C. Ruff, L. Shackelford, J. Stock, K. Carlson, O. Pearson, and F. Grine. Long-bone geometry and skeletal biomechanics in *Homo floresiensis*. *American Journal of Physical Anthropology Supplement 50*: 137 (Abstract).
- 2009 Assefa, Z., D. Pleurdeau, E. Hovers, A. Asrat, O. Pearson, F. Duquesnoy, J.-L. Le Quellec, C. T/Tsion, Y. M. Lam. Results of the second field season of the South East Ethiopia Cave Survey Project: test excavations, survey, rock art, and spellothems Abstracts of the 2009 Annual Meeting of the Paleoanthropology Society.
- 2009 Sparacello, V., O. M. Pearson, A. Coppa. Cross-sectional geometry of a warlike Samnite sample from the Alfedena necropolis (Iron Age, Italy). *American Journal of Physical Anthropology Supplement 48*: 378.
- 2009 Pearson, O. M., S. Daneshvari, V. S. Sparacello. Relationships among skeletal dimensions correlated with body mass. *American Journal of Physical Anthropology Supplement 48*: 321.
- 2008 Assefa, Z., E. Hovers, O. Pearson, D. Pleurdeau, Y. Lam, C. T/Tsion. Survey and exploration of cave sediments in southeastern Ethiopia: Preliminary results . Abstracts of the 2008 Annual Meeting of the Paleoanthropology Society.
- 2008 Pearson, O. M., and Petersen, T. R. World-wide variation in the body-size-adjusted torsional strength of major long bones. *American Journal of Physical Anthropology Supplement 46*: 169.
- 2008 Petersen, T. R., and Pearson, O. M. Correspondence and divergence among seven measures of long bone robusticity. *American Journal of Physical Anthropology Supplement 46*: 171.
- 2008 Sparacello, V., Pearson, O. M., and Petersen, T. R. Untangling the effects of terrain and mobility on the cross-sectional geometry of the femur and tibia. *American Journal of Physical Anthropology Supplement 46*: 199.
- 2007 Pearson, O. M., Reeves, A. M., and Petersen, T. R. Multivariate Analysis of the Postcranium of Markina Gora (Kostenki XIV), A 30,000 Year Old Skeleton from Russia. Paleoanthropology Society Abstracts.
- 2007 Daneshvari, S., Pearson, O. M., and Malina. R. M. Activity or biological affinity? Predictive equations for body mass in female collegiate athletes. *American Journal of Physical Anthropology Supplement 44*: 95.



- 2007 Mondragón, M., Busby, A., and Pearson, O. M. Ontogeny and musculoskeletal stress markers in prehistoric New Mexico. *American Journal of Physical Anthropology Supplement 44*: 173.
- 2007 Pearson, O. M., Petersen, T. R., and Grine, F. E. Prediction of long bone cross-sectional geometrical properties from external dimensions. *American Journal of Physical Anthropology Supplement 44*: 185.
- 2006 Daneshvari, S., Pearson, O. M., and Malina, R. M. Athletes: how different are they from the rest of us? *American Journal of Physical Anthropology Supplement 42*: 91-92.
- 2006 Pearson, O. M. The African origin of modern humans: integrating genetic, anatomical, and archaeological evidence. In S. C. Reynolds, C. G. Menter, M. S. Robinson, and J. Hemingway (eds.): *African Genesis. A Symposium on Hominid Evolution in Africa. Abstracts & Information. 8th-14th January 2006, University of the Witwatersrand Medical School, Johannesburg, South Africa. Johannesburg: University of the Witwatersrand*, pp. 45-46.
- 2005 Edgar, H., Goff, A., and Pearson, O. Forensic applications of dental morphology in the Southwestern United States. 13<sup>th</sup> International Symposium on Dental Morphology, Lodz, Poland, August 2005.
- 2005 Pearson, O. M. and Hanson, T. E. Development of Bayesian discriminant analysis for multivariate data with missing values, with an application to the origin of modern humans. *American Journal of Physical Anthropology Supplement 40*: 163-164.
- 2005 Daneshvari, S., Pearson, O. M., and Malina, R. M. Body mass estimation from anthropometric measurements in female collegiate athletes. *American Journal of Physical Anthropology Supplement 40*: 91-92.
- 2005 Pearson, O., Cordero, R. and Busby, A. How different were Neanderthal habitual activities? Comparisons and analysis of the long bone strength and robusticity of Neanderthals and diverse groups of recent humans. *Abstracts of the NYU-Max Planck Conference, "Neanderthals Revisited: New Approaches and Perspectives. January 27-29 at New York University."* pp 39-42.
- 2004 Lam, Y. M. and Pearson, O. Identifying the influence of density-mediated destruction on archaeological faunal assemblages. *Abstracts of the 2004 SAA meetings*, p. 198.
- 2004 Pearson, O. and Cordero, R. World-wide variation in residual strength of the humerus, femur, and tibia. *American Journal of Physical Anthropology Supplement 38*: 158.
- 2004 Daneshvari, S. and Pearson, O. Estimation of living body mass from multiple skeletal elements. *American Journal of Physical Anthropology Supplement 38*: 82.
- 2004 Powell, J., Pearson, O., and Smart, J. Physique and climatic adaptations of Paleoindians. *American Journal of Physical Anthropology Supplement 38*: 162-163.
- 2003 Lieberman, D. E., Pearson, O. M., Polk, J. D., Demes, B., and Crompton, A. W. Old bones don't build. *Journal of Experimental Biology* 206(18): 3116.
- 2003 Pearson, O. M. and Millones, M. Postcranial reflections of climatic adaptation and habitual activity in Tierra del Fuego. *American Journal of Physical Anthropology Supplement 36*: 166.

- 2003 Mondragón, M. and Pearson, O. M. Occupational activity level in relation to bone strength. *American Journal of Physical Anthropology Supplement* 36: 153.
- 2002 Pearson, O. M. and Lieberman, D. E. Effects of age and exercise on long bone modeling and remodeling. . *American Journal of Physical Anthropology Supplement* 34: 123.
- 2002 Lieberman, D. E., Pearson,, O. M. and Polk, J. Growth versus repair responses to loading in the limb. *American Journal of Physical Anthropology Supplement* 34: 102.
- 2001 Pearson, O., Jungers, W., Grine, F., and Mowbray, K. The reliability of estimates of hominin body mass derived from bi-iliac breadth and stature. *American Journal of Physical Anthropology Supplement* 32: 118.
- 2001 Ray A. and Pearson, O. M. It's not all in your head: Analyses of population affinity based on postcranial discriminant functions. *American Journal of Physical Anthropology Supplement* 32: 123.
- 2000 Devlin, M. J., D. E. Lieberman, and O. M. Pearson. An experimental test of articular surface response to mechanical loading *American Journal of Physical Anthropology Supplement* 30: 138-139.
- 2000 Pearson, O. M. Postcranial differences between Neandertals and cold-adapted recent humans. *American Journal of Physical Anthropology Supplement* 30: 247.
- 1999 Pearson, O. M. Postcranial differences between the earliest modern humans and recent people. *Journal of Human Evolution* 36: A16-A17.
- 1999 Pearson, O. M. and Lieberman, D. E. The femur is mightier than the tibia: inferring activity levels using limb bone cross-sectional properties. *American Journal of Physical Anthropology Supplement* 28: 219-220 (Abstract).
- 1998 Pearson, O. M. Postcranial evidence for the origin of modern humans. *American Journal of Physical Anthropology Supplement* 26: 176-177.
- 1997 Pearson, O. M. The distinctiveness of Neandertal diaphyseal robusticity. *American Journal of Physical Anthropology Supplement* 24: 184.
- 1997 Whalen, M. P., Grine, F. E., Pearson, O. M., and Gallow, K. Variation of cortical bone distribution in the human femur. *American Journal of Physical Anthropology Supplement* 24: 238.
- 1996 Pearson, O. M. and Grine, F. E. Cortical thickness and relative bending moments in human long bones: correlations among elements. *American Journal of Physical Anthropology Supplement* 22: 183.
- 1995 Pearson, O.M., Jungers, W.L., and Grine, F.E. Biomechanical scaling of human femora and tibiae: isometry or allometry? *American Journal of Physical Anthropology Supplement* 20: 169.
- 1994 Pearson, O.M. Climatic correlates of morphological variation in fascicularis-group macaques. *American Journal of Physical Anthropology Supplement* 18: 159.
- 1993 Pearson, O.M. A cladistic analysis of the Mousterian hominids from the Middle East. *American Journal of Physical Anthropology Supplement* 16: 156-157.

### Invited lectures and presentations

- 2012 Pearson, O. M., "Hominin evolution and cultural changes in the Middle-Late Pleistocene: fossils, adaptive scenarios, and alternatives." Conference sponsored by the Wenner Gren Foundation for Anthropological Research, Håringe Slott, Stockholm, Sweden, June 1-7, 2012.
- 2009 Pearson, O. M. and Hanson, T. E., "Development and assessment of Bayesian discriminant analysis for multivariate data with missing values," Lecture presented at the Max Planck Institute of Evolutionary Anthropology, Leipzig, Germany, May 28, 2009.
- 2006 Pearson, O. M., "New discoveries in human evolution," Lecture presented to the Maxwell Museum of Anthropology, University of New Mexico, May 9, 2006.
- 2006 Pearson, O. M., "The origin of modern humans: old skeletons and new ideas," Lecture presented to the Department of Anthropology, University of Victoria, February 9, 2006.
- 2006 Pearson, O. M., "The African origin of modern humans: integrating genetic, anatomical, and archaeological evidence," Lecture presented at "A Symposium on Hominid Evolution in Africa. Abstracts & Information. 8th-14th January 2006, University of the Witwatersrand Medical School, Johannesburg, South Africa".
- 2005 Pearson, O. M., "Fossil and genetic background to the Middle Stone Age," Lecture presented at a conference titled "The Middle Stone Age of East Africa and Modern Human Origins," sponsored by the National Museums of Kenya and the National Museum of Ethiopia, July 17, 2005.
- 2005 Pearson, O. M., R. Cordero, and A. Busby. "How different were Neanderthal habitual activities? Comparisons and analysis of the long bone strength and robusticity of Neanderthals and diverse groups of recent humans" Lecture presented to the NYU-Max Planck Institute for Evolution conference "Neanderthals Revisited: New Approaches and Perspectives." January 27, 2005.
- 2004 Pearson, O. M. "Cognitive Evolution and the Origin of Modern Humans" Lecture presented in the Department of Anthropology, University of Missouri, October 15, 2004.
- 2003 Pearson, O. M. "Climate and the Evolution of Human Physique," Lecture presented in the Department of Anthropology, New York University, April 4, 2003.
- 2001 Pearson, O. M. "Long Bone Robusticity and Hominin Activities" Lecture presented at the Institute of Human Origins, Arizona State University, March 2, 2001.
- 2000 Pearson, O. M. "Fossil Evidence for the Origin of Modern Humans" Lecture presented in the Maxwell Museum of Anthropology, University of New Mexico, Albuquerque, February 9, 2000.
- 1999 Pearson, O. M. "Experimental Perspectives on Skeletal Robusticity". Lecture presented in the Department of Anthropology, University of New Mexico, Albuquerque, March 1, 1999.
- 1999 Pearson, O. M. "Human Evolution: Experimental Insights". Lecture presented in the Department of Anthropology, University of Toronto, January 27, 1999.

- 1998 Pearson, O. M. "The Origin of Modern Humans: Deciphering the Postcranial Evidence". Lecture presented in the Department of Anthropology, University of Illinois, Champaign-Urbana, November 12, 1998.
- 1998 Pearson, O. M. "The Origin of Modern Humans: Postcranial Evidence". Lecture presented for the Paleoanthropology Seminar at the National Museum of Natural History, November 4, 1998.
- 1998 Pearson, O. M. and Lieberman, D. E. "Why Do Some Hominids Have Such Thick Bones?" Lecture presented at Summer Course "La Vida en la Prehistoria: La Paleobiología de Nuestros Antepasados" at the Universidad Complutense, Madrid, organized by Juan Luis Arsuaga and Leslie Aiello, August 12, 1998.
- 1998 Lieberman, D. E. and Pearson, O. M. "Effects of Age and Exercise on Cortical Bone Growth and Porosity". Poster presented at the research retreat of the American Federation of Aging Research, June 6, 1998.
- 1998 Pearson, O. M. "Interpreting Skeletal Differences Between Neandertals and Modern Humans". Lecture delivered in the Department of Anthropology, University of Iowa, March 2, 1998.
- 1998 Pearson, O. M. "Interpreting Skeletal Differences Between Neandertals and Modern Humans". Lecture delivered in the Department of Anthropology, Rutgers University, February 27, 1998.

### Research Funding

- 2006 National Science Foundation, "Doctoral Dissertation Improvement: Population Dynamics in Prehispanic Northern Mexico," Sophie Kohn, Co-PI, \$10,829.
- 2005 Wenner-Gren Foundation, "The Biological Evidence of the San Pau Chu Site, Taiwan, and its Association with Austronesian Migration," Hsiu-man Lin, Co-PI, \$24,801.
- 2005 L. S. B. Leakey Foundation, "The Prevalence of Osteoarthritis in Wild Versus Captive Great Apes", Demelza Poe, Co-PI, \$11,404.
- 2005 National Science Foundation, "Doctoral Dissertation Improvement: Taxonomic Implications of Basicranial Variation in *Australopithecus africanus*", Timothy R. Petersen, Co-PI, \$8,665.
- 2002 University of New Mexico Research Allocation Committee Large Grant, "Archaeological investigation of the Gorgora Stone Age site, Ethiopia", \$5,067.
- 1996 Wenner-Gren Foundation for Anthropological Research, "Postcranial morphology and the origin of modern humans", \$4,200.
- 1996 Boise Fund, Oxford University, "Postcranial morphology and the origin of modern humans", \$1,140.
- 1993 Doctoral Program in Anthropological Sciences, SUNY at Stony Brook, "Climatic Correlates of Morphological Variation in *fascicularis* -Group Macaques", \$175.
- 1992 Doctoral Program in Anthropological Sciences, SUNY at Stony Brook, "Anatomical Variability in Sub-Saharan Africans and the Origin of Modern Humans", \$250.

## TEACHING

### Ph.D. Advisement – Current Students

1. Amanda Busby (**Advisor**) Dissertation title: *Somatic Growth Trajectories in Upper Pleistocene Homo*.
2. Robin Cordero (**co-Advisor** with Emily Jones) Dissertation title: *Exploitation of Avifauna in Late Precontact Societies of the Rio Grande Valley*.
3. Paul James (**Co-Advisor** with Ana Magdalena Hurtado): Dissertation title: *The Disease Ecology of Asthma among the Migrant Mixtec Population*.
4. Diana Rabenold (**Advisor**) Dissertation title: *Did Paranthropus boisei specialize in eating the African C<sub>4</sub> sedge Cyperus papyrus? Results from Microwear Texture Analyses of Human Molars That Chewed papyrus*.
5. Jenna Strawbridge (**Advisor**) Dissertation title: undecided.

### Ph.D. Advisement – Former Students

9. Vitale Sparacello (**Advisor**) Ph.D. 2013. Dissertation title: *The Bioarchaeology of Changes in Social Stratification, Warfare, and Habitual Activities in the Iron Age Samnites of Central Italy*.
8. Shamsi Rebecca Daneshvari (now Berry) (**Advisor**) Ph.D. 2011. Dissertation title: *Effects of Body Mass on the Skeleton*.
7. Wendy E. Potter (now McQuade) (**Co-Advisor** with Jane Buikstra) Ph.D. 2010. Dissertation title: *Evidence for a Change in the Rate of Aging of Osteological Indicators in American Documented Skeletal Samples*.
6. Timothy R. Petersen (**Advisor**) Ph.D. 2010. Dissertation title: *Taxonomic Implications of Basicranial Variation in Australopithecus africanus*.
5. Demelza J. Poe (**Advisor**) Ph.D. 2009. Dissertation title: *The Prevalence of Osteoarthritis in Wild Versus Captive Great Ape Skeletons*.
4. Hsiuman Lin (**Co-Advisor** with Anne Stone) Ph.D. 2009. Dissertation title: *The Biological Evidence from the San-Pao-Chu Site, Taiwan, and its Association with the Austronesian Migration*.
3. Anna Louise East (**Co-Advisor** with Jane Buikstra) Ph.D. 2008. Dissertation title: *Reproduction and Prenatal Care in Arizona Prehistory: An Examination of Patterns of Health in Perinates and Children at Grasshopper, Point of Pines, and Turkey Creek Pueblos*.
2. Elizabeth Ann Carson (**Advisor**) Ph.D. 2006. Dissertation title: *Environmental Contributions to Human Microevolution in Pleistocene and Holocene Australia*.
1. Thomas Estenson (**Advisor**) Ph.D. 2004. Dissertation title: *Evolution and Variation in the Human Nasopharynx*.

### Ph.D. Committee Membership – Current Students

1. Jason King (Committee Member) Dissertation title: *Woodland Period Mortuary Practices, Ancestorhood, and Ideology in The Lower Illinois Valley.*
2. Corey Ragsdale (Committee Member). Dissertation title: *Cultural Ecology and Biological Distance among Postclassic Mexican Populations.*

#### **Ph.D. Committee Membership – Former Students**

13. Matthew J. O'Brien (Committee Member) Ph.D. 2013. Dissertation title: *The Socioeconomic Organization of Communal Hunting: An Archaeological Investigation into Shoshone Collective Action.*
12. Lara Noldner (Committee Member) Ph.D. 2013. Dissertation title: *Bioarchaeological Investigation of the Effects of Spanish Contact on the Lifestyles and Social Structure of the Tipu Maya in West Central Belize.*
11. Michael Church (Committee Member) Ph.D. 2012. Dissertation title: *Florentine Palaces, Costly Signaling, and Lineage Survival.*
10. John Anderson (Committee Member) Ph.D. 2010. Dissertation title: *The Modern Human Skull: Definition by Integrationist and Modular Models.*
9. Danielle F. Royer (Outside Committee Member; student at Stony Brook University) Ph.D. 2009. Dissertation title: *Morphometric Variation in the Appendicular Skeleton of Recent and Prehistoric Humans.*
8. John Risetto (Committee Member) Ph.D. 2009. Dissertation title: *A Portrait of Land Use: Investigating Late Pleistocene Hunter-Gatherer Mobility Patterns in Northern Spain.*
7. Oskar Burger (Committee Member) Ph.D. 2009. Dissertation title: *Ecological Constraints and Life History Tradeoffs among Human Foragers and their Prey.*
6. Marcus Hamilton (Committee Member) Ph.D. 2008. Dissertation title: *Quantifying Clovis Dynamics: Confronting Theory with Models and Data Across Scales.*
5. Jack Baker (Committee Member) Ph.D. 2007. Dissertation title: *The Evolutionary Ecology of Thrifty Metabolism: Early-Life Signals of Environmental Instability and Later Body Composition in Humans.*
4. Robert Walker (Committee Member) Ph. D. 2004. Dissertation title: *Evolution of Delayed Maturity: Ontogeny and Behavior in Two South American Indigenous Populations.*
3. Michael Schillaci (Committee Member) Ph.D. 2002. Dissertation title: *Nonhuman Primate Hybridization and the Study of Neanderthal Taxonomy: A Morphometric and Radiographic Analysis of Craniofacial Growth and Variation among the Macaques of Sulawesi.*
2. Megan Perry (Committee Member) Ph.D. 2002. Dissertation title: *Health, Labor, and Political Economy: A Bioarchaeological Analysis of Three Communities in Provincia Arabia.*
1. Winston Crandall (Outside Member, Dept of Math and Statistics) Ph.D. 2002. Dissertation title: *Selection Criteria for Log-Linear and Location Models.*

## **Masters advisement**

### **Bachelor's honors advisement**

7. Sonee T. Swisley. 2013. Honors thesis title: *Use It and Lose It: Current Theory on the Evolution, Use and Attrition of the Anterior Dentition in the Genus Homo.*
6. Amanda Rae Wittrup. 2012. Honors thesis title: *Climate, Geography, and Human Cranial Form.*
5. Heather MacInnes. 2011. Honors thesis title: *Dimensions of the Birth Canal and Age at Death in Prehistoric New Mexican women: A test of Evolutionary Optimality.*
4. Rachel Sampson. Honors thesis title: *The Effects that Interactions between Genes and Environment Have on the Development of Cognitive and Behavioral Disorders.*
3. Tahirih de la Cerda. Honors thesis title: *Pathology of the Vertebral Column and its Relationship to Activity: Research on a Risk Factor for Degenerative Joint Disease.*
2. Monica Mondragón. Honors thesis title: *Effects of Age and Activity on Haversian Remodeling: A Histological and Cross-Sectional Analysis.*
1. Alisha Ray. Honors thesis title: *It's Not All in Your Head. Analysis of Population Affinity Based on Postcranial Discriminant Functions.*

### **Classroom Teaching**

Spring 2014

Anthropology 101 Introduction to Anthropology  
Anthropology 340/570 Medieval Archaeology (co-taught with Jim Boone)  
Anthropology 450/550 Topics: Functional Morphology

Fall 2013

Anthropology 101 Introduction to Anthropology  
Anthropology 351L Anthropology of the Human Skeleton

Summer 2013

Anthropology 101 (online) Introduction to Anthropology

Spring 2013

On leave

Fall 2012

Anthropology 351 Anthropology of the Skeleton

Spring 2012

Anthropology 101 Introduction to Anthropology (online Extended University course)  
Anthropology 340/570 Medieval Archaeology (co-taught with Jim Boone)

Fall 2011

Anthropology 451/651 Bioarchaeology  
Anthropology 351L Anthropology of the Skeleton

Spring 2011

Anthropology 101 Introduction to Anthropology  
Anthropology 357 Human Origins  
Anthropology 150 Evolution and Human Emergence

Fall 2010

Anthropology 101 Introduction to Anthropology  
Anthropology 351L Anthropology of the Skeleton

Summer 2010

Anthropology 101 Introduction to Anthropology  
Anthropology 150 Evolution and Human Emergence

Spring 2010

Anthropology 451/651 Bioarchaeology  
Anthropology 420/570 Medieval Archaeology (co-taught with  
Jim Boone)

Fall 2009

Anthropology 101 Introduction to Anthropology  
Anthropology 457/557 Paleoanthropology

Spring 2009

Anthropology 101 Introduction to Anthropology  
Anthropology 357 Human Origins

Fall 2008

On sabbatical

Spring 2008

Anthropology 101 Introduction to Anthropology  
Anthropology 357 Human Origins

Fall 2007

Anthropology 101 Introduction to Anthropology

Spring 2007

Anthropology 101 Introduction to Anthropology  
Anthropology 350 Human Biology

Fall 2006



Anthropology 101	Introduction to Anthropology
Anthropology 457/557	Paleoanthropology
Spring 2006	
Anthropology 150	Evolution and Human Emergence
Anthropology 357	Human Origins
Fall 2005	
Anthropology 101	Introduction to Anthropology
Anthropology 557/457	Paleoanthropology
Spring 2005	
Anthropology 101	Introduction to Anthropology
Anthropology 357	Human Origins
Fall 2004	
Anthropology 458	Reconstructing Life from the Skeleton
Anthropology 556	Inferring Behavior from the Skeleton
Anthropology 151L	Human Evolution Laboratory (1 section)
Spring 2004	
Research Semester	
Fall 2003	
Anthropology 150	Evolution and Human Emergence
Anthropology 457/557	Paleoanthropology
Summer 2003	
Anthropology 351	Anthropology of the Human Skeleton
Spring 2003	
Anthropology 350	Human Biology
Anthropology 357	Human Origins
Fall 2002	
Anthropology 450	Topics in Biological Anthropology: Reconstructing Life from the Skeleton
Anthropology 550	Topics in Biological Anthropology: Inferring Activity and Behavior from the Skeleton.
Spring 2002	
Anthropology 350	Human Origins
Anthropology 577	Seminar: The Middle to Upper Paleolithic transition (co-taught with Professor Lawrence Straus)
Fall 2001	

Anthropology 150 Evolution and Human Emergence  
Anthropology 557/457 Paleoanthropology  
Bi-weekly Statistics seminar (organized in conjunction with Ed Bedrick and Joe Powell)

Spring 2001

Anthropology 350 Human Biology  
Anthropology 357 Human Origins

Fall 2000

Anthropology 150 Evolution and Human Emergence  
Anthropology 550 Modern Human Origins: The Fossil Evidence  
Organized an informal, weekly graduate seminar with Ed Bedrick (Math & Statistics Department) and Joe Powell on the use of statistics in Anthropology.

Spring 2000

Anthropology 150 Evolution and Human Emergence  
Anthropology 457/557 Paleoanthropology

Fall 1999

Anthropology 351 Anthropology of the Human Skeleton

Spring 1999

ANAT 217 Functional Anatomy I (Gross Anatomy for Physical Therapists), The George Washington University School of Medicine and Health Sciences, Dr. Ronald Bohn, Course Organizer.

Fall 1998

Medical Gross Anatomy, The George Washington University School of Medicine and Health Sciences, Dr. Ronald Bohn, Course Organizer.

Spring 1998

Anthropology 395 Quantification of Archaeological Data, Anthropology 531 Problems in Comparative Analysis", and Anthropology 573 Problems in Biological Anthropology, a combined undergraduate (ANT 395) and graduate (ANT 531 & 573) course on introductory statistics at Rutgers University.

Fall 1996

for HBA 541 Human Evolutionary Anatomy (and Medical Gross Anatomy), Professor W. L. Jungers, Instructor, State University of New York at Stony Brook. (Teaching Assistant).

Fall 1995

ANP 404 Human Osteology, Department of Anthropology, State University of New York at Stony Brook.

## **Fieldwork and Research**

- 2012 Studied Neandertal fossils from Amud Cave with Dr. Yoel Rak in Tel Aviv, Israel.
- 2011 Participated in the Southeast Ethiopia Cave Survey's excavation of Buticha Cave, May-June, 2011, directed by Dr. Zelalem Assefa, Smithsonian Institution.
- 2007-2008 Participated in the Southeast Ethiopia Cave Survey, July, 2007 and October, 2008, directed by Dr. Zelalem Assefa, Smithsonian Institution.
- 2004-2007 Study and analysis of the Omo Kibish fossils of *H. sapiens* with John Fleagle and Frederick Grine
- 2002 Relocation and archaeological reconnaissance of the Gorgora MSA-LSA site, Gonder Province, Ethiopia.
- 2001 Measurement of postcranial skeletons of indigenous people from Tierra del Fuego at the Museo Etnografico and the Museo del Fin del Mundo in Argentina and the Instituto de la Patagonia in Chile.
- 2000-2001 Analysis of human postcranial dimensions in discriminant analyses for forensic applications with Alisha Ray.
- 1998-2000 Description of MSA hominid specimens from Mumbwa, Zambia, Lawrence Barham, Christopher Stringer, and Frederick Grine.
- 1998- Relationships between skeletal morphology and mobility patterns in present prehistoric pastoralists and hunter-gatherers in the western Cape, South Africa with Yin-Man Lam.
- 1997- Bone growth and remodeling in response to exercise with Daniel Lieberman.
- 1997-1999 Worked on an experimental investigation of bone growth and remodeling in response to exercise in domestic sheep (*Ovis aries*) with Dr. Daniel Lieberman.
- 1997 Measured fossil human remains in Israel.
- 1994-96 Morphology of recent human and Pleistocene hominid postcranial skeletons, in the context of modern human origins.
- 1996 Measured fossil human remains in the Czech Republic and Italy, and measured recent human remains in Norway.
- 1995 Member, excavations at Die Kelders, a Middle Stone Age site in South Africa; Professor Frederick Grine (Stony Brook), Dr. Graham Avery (South African Museum), and Professor Richard Klein (Stanford), directors.
- 1995 Measured fossil and recent human remains in South Africa, England, Belgium, France, Monaco, Germany, Austria, Denmark, Norway, and the U.S. National Museum of Natural History.
- 1994 Affinities of the Klasies River Mouth hominid ulna with Steven Churchill and Frederick Grine.
- 1994 Cross-sectional geometry and morphology of Zulu and Khoisan limb bones with Frederick Grine.

- 1993 Limb bone morphology of terminal Pleistocene humans from Jebel Sahaba, northern Sudan. Research conducted at Southern Methodist University, Dallas, Texas.
- 1992-93 Relationships between climate and cranial morphology in *fascicularis*-Group macaques.
- 1992 Positional behavior of three Malagasy primates (*Indri indri*, *Propithecus diadema edwardsi*, *Hapalemur aureus*), with Brigitte Demes and Patricia Wright.
- 1991 Member, excavations at Hayonim Cave, a Mousterian site in northern Israel, Professors Ofer Bar-Yosef (Harvard) and Bernard Vandermeersch (Bordeaux), directors.
- 1991 Cladistic relationships of Mousterian hominids from the Middle East.
- 1990 Senior Honors thesis (Anthropology, University of Texas at Austin) entitled "Functional Implications of the Long Bone Dimensions of the Prehistoric Populations of Central and East Texas".
- 1989 Volunteer at the Department of Paleontology, Balcones Research Center (now the Pickle Research Center), University of Texas at Austin.

## **SERVICE**

### **To the discipline**

Local Arrangements Chair for the 2010 meeting of the American Association of Physical Anthropologists, to be held in Albuquerque, New Mexico from April 13-17, 2010.

### **Editorial Work**

Editorial Associate for *Human Nature* Spring, 2003-present.

International Referee, *Journal of Anthropological Sciences (Rivista di Antropologia)*, Italy, Summer 2007-present.

Book Review Editor for Physical Anthropology, *Journal of Anthropological Research*, Spring, 2008 – present.

Assistant Editor, *Journal of Human Evolution*, Spring, 2008 – Spring, 2012.

### **Reviewing for Journals and Publishers**

Trends in Ecology and Evolution (February, 2014)  
 Proceedings of the National Academy of Sciences (December, 2013)  
 Evolutionary Anthropology (December, 2013)  
 PLoS One (December, 2013)  
 Journal of Scientific Research and Reports (India) (September, 2013)  
 American Journal of Human Biology (August, 2013)  
 Journal of Scientific Research and Reports (India) (July, 2013)  
 Journal of Anthropological Research (April, 2013)  
 Journal of Anthropological Sciences (Italy) (April, 2013)

Book prospectus for Wiley-Blackwell (March, 2013)  
 Journal of Human Evolution (March, 2013)  
 Human Nature (February, 2013)  
 Human Nature (December, 2012)  
 PLoS One (November, 2012)  
 Journal of Archaeological Science (September, 2012)  
 Human Nature (August, 2012)  
 Journal of Human Evolution (August, 2012)  
 International Journal of Osteoarchaeology (July, 2012)  
 Nature Communications (July, 2012)  
 Journal of Human Evolution (July, 2012)  
 Journal of Human Evolution (July, 2012)  
 Journal of Experimental Zoology Part B (May, 2012)  
 Journal of Human Evolution (May, 2012)  
 Journal of Human Evolution (March, 2012)  
 Revista Española de Antropología Física (February, 2012)  
 Proceedings of the National Academy of Sciences (February, 2012)  
 Journal of Human Evolution (February, 2012)  
 American Journal of Physical Anthropology (November, 2011)  
 Revista Española de Antropología Física (October, 2011)  
 Proceedings of the National Academy of Sciences (September, 2011)  
 Human Nature (August, 2011)  
 American Journal of Physical Anthropology (August, 2011)  
 Nature Education (Biological Anthropology) (August, 2011)  
 Evolutionary Anthropology (January, 2011)  
 The Anatomical Record (December, 2010)  
 Evolutionary Anthropology (September, 2010)  
 Evolutionary Anthropology (August, 2010)  
 American Journal of Physical Anthropology (June, 2010)  
 Journal of Anatomy (December, 2009)  
 Human Nature (August, 2009)  
 Journal of Human Evolution (July, 2009)  
 Human Nature (June, 2009)  
 Proceedings of the National Academy of Sciences (April, 2009)  
 American Journal of Human Biology (March, 2009)  
 Evolutionary Anthropology (January, 2009)  
 Journal of Anatomy (January, 2009)  
 American Journal of Physical Anthropology (September, 2008)  
 Journal of the Royal Society (London) (July, 2008)  
 Journal of Anatomy (July, 2008)  
 Human Nature (April, 2008)  
 International Journal of Osteoarchaeology (March, 2008)  
 Human Nature (March, 2008)  
 Journal of Human Evolution (March, 2008)  
 American Journal of Physical Anthropology (March, 2008)  
 American Journal of Physical Anthropology (January, 2008)  
 Book chapter (African Genesis volume) (December, 2007)  
 American Journal Physical Anthropology (October, 2007)  
 Human Nature (September, 2007)  
 Evolutionary Anthropology (September, 2007)  
 American Journal of Physical Anthropology (September, 2007)  
 American Journal of Physical Anthropology (September, 2007)  
 Book chapter (Genus *Homo*) (June, 2007)  
 Book chapter (Asian Paleoanthropology) (June, 2007)  
 Yearbook of Physical Anthropology (June, 2007)  
 Journal of Human Evolution (June, 2007)  
 Evolutionary Anthropology (May, 2007)

Current Anthropology (March, 2007)  
 Proceedings of the National Academy of Science (February, 2007)  
 Journal of Human Evolution (February, 2007)  
 American Journal of Physical Anthropology (January, 2007)  
 Book chapter (Stony Brook conference) (January, 2007)  
 Book chapter (Stony Brook conference) (January, 2007)  
 Book chapter (Stony Brook conference) (January, 2007)  
 Book chapter (African Genesis Festschrift) (November, 2006)  
 Journal of Human Evolution (November, 2006)  
 Human Nature (November, 2006)  
 Human Nature (November, 2006)  
 Journal of Anthropological Science (Italy) (October, 2006)  
 Journal of Human Evolution (October, 2006)  
 Yale University Press (book) (August, 2006)  
 Human Nature (July, 2006)  
 Journal of Human Evolution (July, 2006)  
 Journal of Human Evolution (July, 2006)  
 Journal of Human Evolution (June, 2006)  
 Evolution (June, 2006)  
 Journal of Human Evolution (April, 2006)  
 Human Nature (April, 2006)  
 American Journal of Physical Anthropology (April, 2006)  
 Book chapter review (April, 2006)  
 Journal of Human Evolution (February, 2006)  
 Journal of Human Evolution (January, 2006)  
 Human Nature (January, 2006)  
 American Journal of Human Biology (January, 2006)  
 Current Anthropology (January, 2006)  
 Evolutionary Anthropology (January, 2006)  
 Nature (January, 2006)  
 Current Anthropology (November, 2005)  
 Journal of Human Evolution (November, 2005)  
 American Journal of Physical Anthropology (November, 2005)  
 Human Nature (November, 2005)  
 Journal of Human Evolution (October, 2005)  
 Nature (October, 2005)  
 Journal of Human Evolution (August, 2005)  
 Human Nature (August, 2005)  
 Human Nature (August, 2005)  
 Human Nature (August, 2005)  
 Journal of Human Evolution (July, 2005)  
 Journal of Human Evolution (June, 2005)  
 Human Nature (June, 2005)  
 Journal of Anatomy (June, 2005)  
 Journal of Human Evolution (May, 2005)  
 Journal of Anatomy (February, 2005)  
 Human Nature (February, 2005)  
 Current Anthropology (February, 2005)  
 Human Nature (January, 2005)  
 American Journal of Physical Anthropology (December, 2004)  
 Evolutionary Anthropology (November, 2004)  
 Human Nature (November, 2004)  
 Journal of Taphonomy (October, 2004)  
 Journal of Human Evolution (October, 2004)  
 Current Anthropology (September, 2004)  
 Current Anthropology (August 2004)  
 Journal of Anthropological Research (July 2004)

Evolutionary Anthropology	(July 2004)
Human Nature	(July 2004)
Collegium Antropologicum (Croatia)	(May 2004)
Human Nature	(March 2004)
American Journal of Physical Anthropology	(February 2004)
Current Anthropology	(January 2004)
Human Nature	(November 2003)
Current Anthropology	(November 2003)
Current Anthropology	(November 2003)
American Journal of Physical Anthropology	(November 2003)
American Journal of Physical Anthropology	(October 2003)
Evolutionary Anthropology	(October 2003)
Waveland Press – book prospectus	(October 2003)
UNM Press – book manuscript	(September 2003)
Current Anthropology	(August 2003)
Human Nature	(July 2003)
Journal of Human Evolution	(July 2003)
Current Anthropology	(June 2003)
Current Anthropology	(June 2003)
Human Nature	(May 2003)
Current Anthropology	(April 2003)
Journal of Anthropological Research	(April 2003)
Journal of Anthropological Research	(January 2003)
Current Anthropology	(January 2003)
Journal of Human Evolution	(January 2003)
Current Anthropology	(November 2002)
Journal of Human Evolution	(November 2002)
Journal of Human Evolution	(November 2002)
PaleoAnthropology	(September 2002)
Journal of Human Evolution	(March 2002)
Journal of Human Evolution	(February 2002)
Journal of Human Evolution	(November 2001)
Nature	(August 2001)
Current Anthropology	(August 2001)
Journal of Human Evolution	(August 2001)
American Journal of Human Biology	(August 2001)
American Journal of Physical Anthropology	(August 2001)
Evolutionary Anthropology	(July 2001)
American Journal of Human Biology	(May 2001)
Journal of Anthropological Research	(April 2001)
Evolutionary Anthropology	(March 2001)
Current Anthropology	(November 2000)
Evolutionary Anthropology	(October 2000)
American Journal of Physical Anthropology	(August 2000)
Evolutionary Anthropology	(July 2000)
American Journal of Physical Anthropology	(April 2000)
American Journal of Physical Anthropology	(November 1999)
American Journal of Physical Anthropology	(November 1999)
Journal of Human Evolution	(January 1999)
Journal of Human Evolution	(July 1998)
Journal of Human Evolution	(June 1998)
Journal of Human Evolution	(November 1998)
Journal of Archaeological Science	(October 1998)
Journal of Human Evolution	(September 1998)
Journal of Archaeological Science	(May 1998)

## Reviewing for National Funding Organizations

Panelist for the Wenner-Gren Foundation, 2011-2013

Leakey Foundation (3 proposals)	(March, 2014)
National Geographic Society	(July, 2013)
Graduate Women in Science (1 proposal)	(April, 2013)
SSHRC (Canada) (1 proposal)	(February, 2013)
Wenner-Gren Foundation (27 proposals)	(September, 2012)
National Geographic Society	(September, 2012)
National Science Foundation	(May, 2012)
Wenner-Gren Foundation (25 proposals)	(March, 2012)
National Science Foundation	(March, 2012)
Leakey Foundation	(March, 2012)
Leakey Foundation (2 proposals)	(September, 2011)
Wenner-Gren Foundation (20 proposals)	(September, 2011)
Wenner-Gren Foundation (27 proposals)	(March, 2011)
Leakey Foundation	(March, 2011)
National Science Foundation	(March, 2011)
National Science Foundation	(November, 2009)
National Science Foundation	(October, 2009)
National Science Foundation	(June, 2009)
National Science Foundation	(April, 2009)
Leakey Foundation	(March, 2009)
Leakey Foundation	(March, 2009)
National Science Foundation	(March, 2009)
National Science Foundation	(December, 2008)
National Science Foundation	(October, 2008)
Leakey Foundation	(October, 2008)
National Science Foundation	(September, 2008)
National Science Foundation	(May, 2008)
National Science Foundation	(October, 2007)
Leakey Foundation (3 proposals)	(March, 2007)
Leakey Foundation (2 proposals)	(March, 2006)
National Science Foundation	(October, 2005)
Leakey Foundation	(October, 2005)
National Science Foundation	(June, 2005)
Leakey Foundation	(March, 2005)
Wellcome Trust Research Training Fellowship	(March, 2005)
National Science Foundation	(November, 2004)
National Science Foundation	(October, 2004)
Leakey Foundation	(March 2004)
Wellcome Trust Research Training Fellowship	(February 2004)
National Science Foundation (2 proposals)	(October 2003)
Graduate Women in Science Fellowship	(May 2003)
National Science Foundation	(December 2002)
National Science Foundation	(February 1999)
Leakey Foundation	(February 1999)

## Administrative Work in Department, College, University Committees

Member of the Search Committee for an Ethnologist specializing in Latin America (2011-2012)

Member (responsible for summarizing the record of teaching) of the Mid-Probationary Committee for Dr. Ronda Brulotte (2011)



Member (responsible for summarizing the record of service) of the Mid-Probationary Committee for Dr. Sherry Nelson (2011)

Associate Chair of the Department of Anthropology, UNM, Spring 2007-Summer, 2008.

Convener, Biological Anthropology / Human Evolutionary Ecology, Fall, 2007-Spring, 2008.

Chair, Anthropology Department's Search Committee for a Human Biologist, Fall, 2006 – Spring 2007.

Chair, Anthropology Department's 2005-2006 Annual Review Committee for Dr. Keith Hunley.

Member of the Ortiz Center's Programming Committee, Spring, 2003- Fall, 2006.

Member of the Search Committee for a senior Biological Anthropologist, Fall 2007-Spring 2008.

Member of the Search Committee for the Chair of the Department of Anthropology at UNM, Fall 2005 - Spring, 2006.

Department of Anthropology 75<sup>th</sup> Anniversary Jubilee Committee, Spring, 2003 – Spring, 2004.

Member of the Hiring Committee for the Curator of Osteology at the Maxwell Museum, Fall 2002.

Department of Anthropology Graduate Committee, Fall, 2003-Spring, 2007.

Graduate Advisor for Biological Anthropology, Fall, 2003-present-Spring, 2007.

UNM Research Allocations Committee, Fall 2002-present.

UNM Computer Use Committee, Spring 2001-Fall, 2002.

Department of Anthropology Undergraduate Committee, Fall, 1999-Summer, 2003.

Undergraduate Advisor for Biological Anthropology, Fall, 1999-Summer, 2003.

### **Community Service**

Member of the Board of Directors of the New Mexico Museum of Natural History and Science, Albuquerque, Spring 2003- Fall, 2006.