

**Heather Joy Hecht Edgar**  
**Maxwell Museum of Anthropology**  
**Department of Anthropology**

**March 2014**

**Educational History:**

Doctor of Philosophy, 2002, The Ohio State University, Columbus, Ohio  
Anthropology. Dissertation: "Biological Distance and the African-American Dentition."  
Advisor: Paul Sciulli

Master of Arts, 1994, Arizona State University, Tempe, Arizona  
Anthropology. Thesis: "Osteology and Odontology of Basketmaker II Virgin Anasazi  
from Kane County, Utah." Advisor: Charles Merbs

Bachelor of Arts, 1990, University of Nevada, Las Vegas  
Anthropology

**Employment History:**

Principal positions:

Curator of Human Osteology, 2003-present, Maxwell Museum of Anthropology, University of  
New Mexico, Albuquerque NM.

Assistant Professor, 2010-present, Anthropology Department, University of New Mexico,  
Albuquerque NM.

Assistant Professor, 2010-present, Health Sciences Library and Informatics Center, University of  
New Mexico, Albuquerque NM.

Research Assistant Professor, 2004-2010, Anthropology Department, University of New  
Mexico, Albuquerque NM.

Research Assistant Professor, 2008-2010, Health Sciences Library and Informatics Center,  
University of New Mexico, Albuquerque NM.

Osteologist, 1993-1995, Department of Cell Biology and Neuroscience, University of Texas,  
Southwestern Medical Center, Dallas, TX.

Burial Crew Archaeologist, 1993, Roosevelt Platform Mound Study, Roosevelt Dam, AZ.

Other professional positions:

Visiting Instructor, 2001-2003, Department of Sociology and Anthropology, The College of  
Wooster, Wooster, OH.

Graduate Teaching Associate, 1996-2001, Department of Anthropology, Ohio State University,  
Columbus, OH.

Adjunct Faculty, 1995-1996, Brookhaven Community College, Social Sciences Division,  
Farmer's Branch, TX.

Research Assistant for NAGPRA inventory, 1993, Arizona State University Department of  
Anthropology, Tempe, AZ.

Archaeological Assistant, 1993, Federal Land Exchange Project, Arizona State University  
Department of Anthropology, Tempe, AZ.

Research Assistant, 1992, Arizona State University Department of Anthropology, Tempe, AZ.

Computer Specialist, 1992, Arizona State University Department of Anthropology, Tempe, AZ.

Edgar, C.V.

Museum Technician, 1991-1992, Arizona State University Department of Anthropology, Tempe, AZ.

Professional Honors:

National Institutes of Health, National Center for Minority Health and Health Disparities Loan Repayment Program Recipient, 2008-2010, renewed 2010-2012 and 2013.

Dental Anthropology Association, Albert A. Dahlberg student paper prize first runner-up, 2003.

Dissertation Fellow, College of Wooster, Wooster, OH, 2001-2002.

Preparing Future Faculty Fellow, 1999.

Phi Kappa Phi Honor Society, 1999.

## **Narrative Description of Research, Teaching, and Service Interests**

My research takes a biocultural approach to studying modern human variation, recent human microevolution, and contemporary health and disease. Biology and culture have interacted in complex ways during the course of our evolution, and continue to influence modern human populations. I incorporate both biological and cultural considerations into my research, addressing several different aspects of human variability, health, and behavior. I seek new knowledge that has practical application in the world of forensic sciences, as well as intrinsic value in helping anthropologists to understand the forces that shape modern populations.

My current research focus is microevolutionary change in contemporary human populations. I am interested in the interaction of historical events and human biology, specifically as related to biohistory in the United States. For example, by making use of dental characteristics to study African Americans and their ancestral populations, I have identified geographic and temporal patterns of admixture that correlate with social events, such as the African Diaspora and the Great Migration. While this political-economic approach is often used in physical anthropology to understand the factors affecting health in living groups, its application to the study of genetic change is innovative. I have expanded this research to trace the changes in the European American gene pool associated with 19<sup>th</sup> and 20<sup>th</sup> century immigration from Eastern and Southern Europe.

From this foundation, I have expanded my research to include the evolution of Hispanics in the U.S. and Mexico. I am approaching this study by drawing on both bioarchaeological and contemporary samples. Working with collaborators, I am developing a pan-Mexican, diachronic method for understanding the region's variation provides context for understanding the effects of Mexico's complex geography and pre-European contact history on the biological variation of its people. This research is valuable in and of itself for its potential in increasing our knowledge about pre-European contact Mexico. It also provides groundwork for future projects involving Hispanics in the American Southwest. I also am investigating genetic, phenotypic, sociocultural, and economic variables in New Mexicans of Spanish-speaking descent (NMSSD). Though the use of biomarkers, we are determining how these variables correlate with health risks. This research draws on specialists in genetic anthropology, biocultural anthropology, human biology, cultural anthropology, demography, and computational shape analysis.

All of the dental morphological studies have practical applications, especially in the use of dental anthropology to forensic situations, which has to date been an underutilized tool.

My job as a teacher is to make learning as interesting as possible for students by stimulating their desire to learn and by encouraging them to develop their own critical perspectives about anthropological issues. I believe that each class should be designed with the needs of the students in mind. In a rapidly developing field such as biological anthropology that course materials are kept as up to date as possible. When teaching advanced undergraduate or graduate level courses, I emphasize a biocultural viewpoint, something easy to lose sight of in this time of ever increasing specialization. I seek to inculcate a depth of knowledge as well as curiosity about what is not yet known. Of course, in advanced classes, I aim to have students achieve a more sophisticated understanding of the interaction of biology and culture, as well as the technical aspects of the course material.

My university service includes serving on several Maxwell Museum committees, UNM Board of Archaeologists, and participating in hiring searches. At a professional service level, I have served on the Scientific Program and Ethics committees of the American Association of Physical Anthropologist, and as executive officer of the Dental Anthropology Association.

## **Scholarly Achievements:**

### Articles in Refereed Journals:

22. Edgar HJH, Rautman ALM. in press. Contemporary museum policies and the ethics of accepting human remains. Invited paper for a special issue, "Archiving Anthropos: Tracking the Ethics of Collections Across History and Anthropology." *Curator*.
21. Rautman ALM, Edgar, HJH. in press. Secular change in dental development in New Mexican females. *Dental Anthropol J*.
20. Jantz RL, Shirley, NR, Ousley S, Cridlin S, Bennett Devlin J, Driscoll KRD, Edgar HJH, Hefner JT, Jantz LM, Klales AR, Spradley MK, Wescott DJ, Weisensee K, Zephro L. in press. The Effect of Novel Environments on Modern American Skeletons. *Hum Biol*.
19. Ragsdale CR, Edgar HJH. 2014. Cultural effects on phenetic distances among Postclassic Mexican and Southwest United States populations. *Int J Osteoarchaeology*. Early View.
18. Noldner L, Edgar HJH. 2013. Technical note: 3D representation and analysis of entheses morphology. *Am J Phys Anthropol* 152(3):417-424.
17. Willermet C, Edgar, HJH, Ragsdale C, Aubry BS. 2013. Biodistances among Mexica, Maya, Toltec, and Totonac groups of central and coastal Mexico. *Chungará: Revista de Antropología Chilena* 45(3):447-459.
16. Edgar HJH. 2013. Estimation of ancestry using dental morphological characteristics. *J Forensic Sci*. *J Forensic Sci* 58(s1):s3-8. PMID: PMC3548042
15. Kroth PJ, Daneshvari D, Harris EF, Vreeman DJ, Edgar, HJH. 2012. Using LOINC to link ten terminology standards to one unified standard in a specialized domain. *J Biomed Inform* 45(4):674-82. PMID: PMC3288380
14. Edgar HJH, Daneshvari S, Harris EF, Kroth PJ. 2011. Inter-observer agreement on subjects' race and race-informative characteristics. *PLoS ONE* 6(8): e23986. doi:10.1371/journal.pone.0023986. PMID: PMC3163683
13. Edgar HJH. 2009. Testing the utility of dental morphological traits commonly used in the forensic identification of ancestry. In: Koppe T, Meyer G, Alt KW, editors. *Interdisciplinary Dental Morphology*. *Frontiers of Oral Biology* vol. 8. Basel: Karger.
12. Edgar HJH. 2009. Biohistorical approaches to "race" in the United States: biological distances among African Americans, European Americans, and their ancestors. *Am J Phys Anthropol* 139(1):58-67.
11. Edgar HJH, Hunley KL. 2009. Race reconciled: how biological anthropologists view human variation. *Am J Phys Anthropol* 139(1):1-4.
10. Willermet CM, Edgar HJH. 2009. Dental morphology and ancestry in Albuquerque, New Mexico Hispanics. *Homo* 60:207-224.
9. Stewart RS, Edgar HJ, Tatlock C, Peacock F, Kroth PJ. 2008. Developing a standardized cephalometric vocabulary: choices and possible strategies. *J Dent Educ* 72(9):989-97. PMID: PMC2755070
8. Edgar HJH. 2007. Microevolution of African American dental morphology. *Am J Phys Anthropol* 132(4):535-544.
7. Edgar HJH, Lease LR. 2007. Deciduous and permanent dental morphology in a European American sample. *Am J Phys Anthropol* 133(1):726-734.

6. Edgar HJH, Jolie EA, Powell JF, Watkins JE. 2007. Contextual issues in Paleoindian repatriation: Spirit Cave Man as a case study. *J Soc Archaeology* 7(1):101-122.
5. Edgar HJH, Sciulli PW. 2006. Comparative human and deer (*Odocoileus virginianus*) taphonomy at the Richards Site, Ohio. *Int J Osteoarchaeology* 16:124-137.
4. Guatelli-Steinberg D, Sciulli PW, Edgar HJH. 2006. Dental fluctuating asymmetry in the Gullah: Tests of hypotheses regarding developmental stability in deciduous vs. permanent and male vs. female teeth. *Am J Phys Anthropol* 129:427-434.
3. Edgar HJH. 2005. Prediction of social race category using characteristics of dental morphology. *J Forensic Sci* 50(2) 269-273.
2. Edgar HJH. 2004. Dentitions, distance, and difficulty: A comparison of two statistical techniques for dental morphological data. *Dental Anthropology Journal* 17(2):55-62.
1. Edgar HJH, Sciulli PW. 2004. Elongated premolar: A new morphological variant. *Dental Anthropology Journal* 17 (1): 24-27.

#### Book chapters:

5. Dixon EJ, Heaton TH, Lee CM, Fifield T, Parrish E, Worl R, Coltrain JB, Kemp B, wsey D, Farmer GL, Edgar, HJH, Turner CG II. in press. Shuká Kaa: 10,300 Year Old Man Provides Evidence of Early Maritime Adaptations and Coastal Migration. In: Kennewick Man: The Scientific Investigation of an Ancient American Skeleton, Douglas W. Owsley and Richard L. Jantz, eds. Texas A&M University Press.
4. Edgar HJH. in press. Dental morphological estimation of ancestry in forensic contexts. In: Berg G, Ta'ala S, editors. *Biological Affinity in forensic identification of human skeletal remains: beyond Black and White*. CRC Press.
3. Edgar HJH, Ousley SD. 2013. New approaches to the use of dental morphology in forensic contexts. In: Scott GR, Irish JD, editors. *Anthropological perspectives on tooth morphology: genetics, evolution, and variation*. Cambridge University Press. 510-534.
2. Rautman A, Edgar H. 2010. Attractions, museums, and responsibilities: A case study of the Million Dollar Museum. In: Emily Brown, Karen Armstrong, David M. Brugge, and Carol J. Condie, editors. *Threads, Tints, and Edification: Papers in Honor of Glenna Dean*. Papers of the Archaeological Society of New Mexico, No. 36, Albuquerque. 149-158.
1. Edgar HJH, Goff AK, Pearson OM. 2006. Forensic applications of dental morphology in the Southwestern United States. In: Elzbieta Zadzińska, editor. *Current Trends in Dental Morphological Research*. University of Łodz Press. 39-50.

#### Other Writings:

31. Noldner L, Ragsdale C, Edgar, HJH. 2013. Report of findings for the repatriation of human skeletal remains to the Pueblo of Jemez. On file with the National Park Service and the Pueblo of Jemez.
30. Edgar HJH. 2013. Book review: *Living color: The biological and social meaning of skin color*. *Am J Phys Anthropol*. *Am J Phys Anthropol* 151(3):502-503.
29. Kurota A, Gerow PA, Hogan P, Kieffer CL, Medendorp Rautman A, Edgar HJH. 2012. The TVI Cemetery Site: Archeological Monitoring for Jeanette Stromberg Hall Trench, CNM Main Campus, Bernalillo County, New Mexico. Office of Contract Archaeology Project No. 185-1107. Albuquerque: University of New Mexico.

28. Rosett M, Haueter M, Edgar HJH. 2011. Osteological Analysis Report on Human Remains from the Vidal Site (LA 16254) Gallup, New Mexico. On file with the Archaeological Society of New Mexico.
27. Edgar HJH. 2010. Book Review: The Nature of Difference: The Science of Race from Jefferson to Genomics. *Am J Phys Anthropol* 144(1):163-164.
26. Carson EA, Rhoads ML, Prilop VG, Potter W, Adickes G, Naji S, Noldner L, Komar D, and Edgar HJH. 2010. Osteological Analysis of Human Remains from 5LA1211: Trinidad Reservoir, Trinidad, Colorado. In: Final Report on Salvage Excavations at the Leone Bluff Site, 5LA1211, Trinidad Reservoir, Las Animas County, Colorado. OCA/UNM Report No. 185-943. Cordero RM and Hogan P. OCA/UNM Report No. 185-943. Office of Contract Archeology. Albuquerque: University of New Mexico.
25. Edgar HJH. 2009. Book Review: Adam's ancestors: Race, Religion, and the Politics of Human Origins, by David N. Livingstone. *J Anthropol Res* 65(4):675.
24. Hunley KL, Edgar HJH. 2009. Race Reconciled. UNM Anthropology Newsletter, Spring 2009.
23. Edgar HJH. 2008. Dental anthropology of newly excavated human remains: Concerns about data collection and consistency. *Dental Anthropology Journal* 21(1):31.
22. Potter WE, Edgar HJH. 2008. Identification of pseudopathology using scanning electron microscopy and energy dispersive spectroscopy. *Paleopathology Newsletter* 144:8-15.
21. Adickes GM, Edgar HJH. 2008. Biological anthropological analyses. In: Estes JR. Archaeological Investigations at the Alameda Elementary School Kindergarten (LA 421). Office of Contract Archaeology report #OCA-185-825. Albuquerque: University of New Mexico.
20. Edgar HJH. 2007. Race reconciled?: Symposium on how biological anthropologists view human variation. *The Maxwell: Bulletin of News and Information about the Maxwell Museum of Anthropology* 33(2): 9.
19. Edgar HJH. 2007. Current exhibit – Tools of the trade: How biological anthropology is done. *The Maxwell: Bulletin of News and Information about the Maxwell Museum of Anthropology* 33(2): 12.
18. 2006-2007. Text for Bone Clones<sup>®</sup> product catalogs.
17. Edgar HJH. 2006. Minutes of the 21<sup>st</sup> meeting of the Dental Anthropology Association. *Dental Anthropology Journal* 19(2).
16. Edgar HJH 2006. Minutes of the 20<sup>th</sup> annual meeting of the Dental Anthropology Association. *Dental Anthropology Journal* 18(2).
15. Willermet CM, Edgar HJH. 2006. Biological Anthropology and the Border: Exploring the Biological Meaning of “Hispanic.” *Lineae Terrarum Symposium proceedings*.
14. Edgar HJH. 2005. Book review: The Juvenile Skeleton, by Louise Scheuer and Sue Black (Elsevier/Academic Press). *Journal of Anthropological Research* 61:125-126.
13. Edgar HJH, Nardin A. 2005. Announcement: Renee M. Menegaz-Bock dental anthropology collection. *American Journal of Physical Anthropology* 127(1):122-123.
12. Edgar HJH. 2005. University of Łodz hosts excellent dental morphology symposium. *Dental Anthropology Journal* 19(1):35.

11. 2005. Laboratory of Human Osteology Expedition in search of a conquistador finds... The Maxwell: Bulletin of News and Information about the Maxwell Museum of Anthropology 31 (2):7.
10. Edgar HJH, Lease LR. 2004. Appendix: Burial Descriptions and Osteological Summary. In: Weller RJ. Data Recovery Conducted at Impacted Locations within the former North Graveyard (33FR2016) in the North Market District, City of Columbus, Franklin County, Ohio. Weller and Associates, Columbus OH.
9. Edgar HJH. 2004. Minutes of the 19<sup>th</sup> meeting of the Dental Anthropology Association. Dental Anthropology Journal 17(2).
8. Edgar HJH. 2004. Laboratory of Human Osteology: Heather Edgar appointed Curator of Human Osteology. The Maxwell: Bulletin of News and Information about the Maxwell Museum of Anthropology 30(1):5.
7. Edgar HJH, Lease LR. 2003. More teeth than you can shake a stick at: Dental anthropology symposium to be held in Tempe, 2003. Dental Anthropology Journal 16(2):64.
6. Edgar HJH. Winter 2002. Leaving the Nest or Flying the Coop? Teaching at a liberal arts college. Anthropology Insider. <http://anthropology.ohiostate.edu/Newsletter/WI2002/features.htm>.
5. Edgar HJH. 2001. Dental Anthropology at Ohio State University. Dental Anthropology Journal 15(1):12-13.
4. Edgar HJH, Lease LR. Spring 2001. Excavations at the North Cemetery. Anthropology Insider. <http://anthropology.ohio-state.edu/Newsletter/spring01Newsletter/features.htm>.
3. Edgar HJH. Spring 2001. Confessions of an anthropologist: The other "AA". Anthropology Insider. <http://anthropology.ohio-state.edu/Newsletter/spring01Newsletter/features.htm>
2. Condon CG, Becker JL, Edgar HJH, Davidson JM, Hoffman JR, Kalima P, Kysar D, Moorhead S, Owens VM, Condon K. 1998. Freedman's Cemetery Site 41DL 316 Dallas, Texas: Assessments of Sex, Age at Death, Stature, and Date of Interment for Excavated Burials. Texas Department of Transportation, Environmental Affairs Division, Archeology Studies Program, Report No. 9.
1. Edgar HJH. 1997. Paleopathology of the Wizard's Beach Man (AHUR 2023) and the Spirit Cave Mummy (AHUR 2064). Nevada Historical Quarterly, 40:1(57-61).

### **Museum Exhibits**

2. What's new at the Maxwell: Recent acquisitions. Winter/Spring 2007-2008. **Co-curator**, with Catherine Baudoin, Patrick Hogan, Kathryn Klein, and Dave Phillips. Maxwell Museum of Anthropology Bawden Gallery.
1. Tools of the trade: How biological anthropology is done. May 25-November 3, 2007. **Curator**. Maxwell Museum of Anthropology Bawden Gallery.

### **Works in progress**

#### Manuscripts:

Edgar HJH. in preparation. A pictorial manual for dental morphology.

#### Articles in Refereed Journals:

1. Hotchkiss WR, Schwend RM, Bosch P, Edgar H, Young BN. in review. Pedicle screw insertion in the thoracic spine: Defining the difference between the anatomic pedicle vs. the medial screw trajectory, screw length, and starting point. Submitted to: Spine Deformity.

#### Museum Exhibits:

Revealing Nuevomexicanos. In development as an Internet exhibit. Co-curated with Keith Hunley.

#### **Refereed Abstracts**

46. Rusk K, Edgar HJH, Hunley. 2014. Structure analysis of dental morphological data results in patterns similar to analyses of genetic data. *Am J Phy Anthropol Suppl* 48.
45. O'Donnell A, Ragsdale C, Willermet CM, Edgar HJH. 2014. Rare incisor variants are observed at relatively high frequencies in Mexico and the American Southwest. *Am J Phy Anthropol Suppl* 48.
44. Ragsdale CR, Edgar HJH. 2014. The effects of cultural and ecological relationships on population affinities among postclassic Mexican and southwestern United States populations.
43. Willermet C, Edgar, HJ, Ragsdale CS. 2013. Modeling biological and culture-history variables influencing microevolutionary change in pre-European contact Mexico. *American Anthropological Association*.
42. Edgar HJH, Daneshvari S, Harris E, Kalishman S, Kroth P. 2013. Research in, research out: the development of a searchable, web-based case file of orthodontic records. *Proceedings of the 15<sup>th</sup> International Symposium of Dental Morphology, Newcastle upon Tyne, UK, 2011. Bull Int Assoc Paleodont* 7(1):74.
41. Edgar HJH, Bloom S, Rusk K, Healy M, Mosley C, Hunley K, Lane T. 2013. Are there 40 kinds of Hispanics in New Mexico? *Am J Phys Anthropol Suppl* 46:117.
40. Rautman A, Edgar HJH, Ragsdale C, Edgar HJH. 2013. Secular change in dental development in New Mexican females. *Am J Phys Anthropol Suppl* 46:229.
39. Daneshvari S, Edgar HJH. 2013. The relationship between dental crowding and cephalometric measurements in contemporary New Mexicans. *Am J Phys Anthropol Suppl* 46:107.
38. Ragsdale C, Edgar HJH. 2013. Cultural ecology and biological distance among Classic and Postclassic period American Southwest and Mexican populations. *Am J Phys Anthropol Suppl* 46:228.
37. Mosley C, Healy M, Hunley K, Edgar HJH. 2013. Skin deep: is skin color linked to blood pressure in New Mexicans of Spanish-speaking descent? *Am J Hum Biol* 25:268.
36. Edgar HJH, Hughes T, Rusk K. 2012. Maximum heritability as an indicator of relative developmental stability among populations. *Am J Phys Anthropol Supplement* 44:137.
35. Koehl A, Edgar, HJH. 2012. Human remains processing for skeletal collections using laboratory "burials." *Am J Phys Anthropol Supplement* 44:184.
34. Ousley S, Edgar HJH. 2012. Secular changes in discrete dental traits on three continents. *Am J Phys Anthropol Supplement* 44:230.
33. Willermet C, Edgar HJH, Ragsdale C. 2012. Population biodistance in pre-European contact central México, Veracruz, and the Yucatán. *Am J Phys Anthropol Supplement* 44:303.



32. Edgar, H, Haueter M, Daneshvari S, Harris E, Kroth P. 2011. Demonstrating an anthropological application of the Economides orthodontic collection: deciduous and permanent tooth size in European and Hispanic Americans. *Am J Phys Anthropol Supplement* 42:131.
31. Kieffer C, Mitchell C, Kitagawa K, Mosley C, Naranjo, P, Nelson S, Atudorei V, Edgar H. 2011. Righting the wrongs of the past: estimating the original provenience of confiscated mummies with isotope analyses. *Am J Phys Anthropol Supplement* 42:185.
30. Noldner LK, Edgar HJH. 2011. 3D, 2D, or score: a comparison of methods for assessing MSM development. *Am J Phys Anthropol Supplement* 42:226.
29. Ragsdale C, Koehl A, Edgar HJH. 2011. Exploring the precision of facial recreation using cephalographic images from a contemporary Southwest United States database. *Am J Phys Anthropol Supplement* 42:246.
28. Edgar H, Kroth P, Harris E, Kalishman S, Daneshvari S. 2010. Ancestry estimation in a web-based, searchable database of orthodontic case files for patient care, education, and research. *Medinfo* 2010, 1428.
27. Kroth P, Edgar H, Harris E, Kalishman S. 2010. A web-based, searchable database of orthodontic case files for patient care, education, and research. *Medinfo* 2010.
26. Edgar HJH, Ousley SD. 2010. New approaches to the use of dental morphology in forensic contexts. *Am J Phys Anthropol Supplement* 40:80.
25. Rautman AL, Edgar HJH. 2010. Another roadside attraction: repercussions and responsibilities regarding human remains from the "Million Dollar Museum." *Am J Phys Anthropol Supplement* 40:240.
24. Mosley C, Edgar HJH. 2010. A census-based investigation of relationships among Huntington's disease, traditional life ways, and fertility. *Am J Hum Biol* 22(2):239.
23. Hotchkiss WR, Schwend RM, Vaughn JJ; Bosch P, Edgar H, Young BN. 2010. Pedicle screw insertion in the thoracic spine: defining the difference between the anatomic pedicle vs. the medial screw trajectory. Program of the 17th International Meeting on Advanced Spine Techniques. p.127.
22. Goff AK, Edgar HJH. 2009. Differential diagnosis of a possible coccidioidomycosis infection in New Mexico: AD 1712-1903. *Am J Phys Anthropol Supplement* 39:50.
21. Noldner LK, Edgar HJH. 2009. Musculoskeletal stress markers in agriculturalists: Pueblo villages and Spanish subsistence farmers. *Am J Phys Anthropol Supplement* 39:73.
20. Edgar HJH, Daneshvari SR. 2008. Complex taphonomic processes at a historic Albuquerque cemetery. Soc Am Archaeology 73<sup>rd</sup> annual meeting program.
19. Potter WE, Edgar HJH. 2008. Identification of pseudopathology using scanning electron microscopy and energy dispersive spectroscopy. *Paleopathology Association Papers* 35<sup>th</sup> Annual meeting issue.
18. Edgar HJH, Willermet CM. 2007. Is there biological meaning to "Hispanic" in New Mexico? *Am J Phys Anthropol Supplement* 37:104.
17. Goff AK, Edgar HJH. 2007. Dental pathology of the Jemez region of New Mexico. *Am J Phys Anthropol Supplement* 37:116.
16. Edgar HJH. 2006. A test of dental morphological traits used in forensic identification of ancestry. *Am J Phys Anthropol Supplement* 36:86.

15. Lease LR, Edgar HJH. 2006. Comparing correlations of metric and morphological data from deciduous and permanent dentitions in a European American sample. *Am J Hum Biol* 18(2):261.
14. McGuinn RJ, Edgar HJH, Lease LR. 2006. Is there a correlation between deciduous and permanent dental metrics in a sample of female Americans of Hispanic descent? *Am J Hum Biol* 18(2):263.
13. Spence JE, Daneshvari S, Edgar HJH. 2006. A rare atlar anomaly from the Jemez area, New Mexico. *Paleopathology Association Papers, 33rd Annual Meeting Issue*:16.
12. Edgar HJH, Lease LR. 2005. Comparison of deciduous and permanent dental morphology in a European American sample. *Am J Phys Anthropol Supplement* 35.
11. Guatelli-Steinberg D, Sciulli P, Edgar H. 2004. Asymmetry of three deciduous teeth and their replacements in the Gullah. *Am J Phys Anthropol Supplement* 34.
10. Edgar HJH, Lease LR. 2004. Indicators of musculoskeletal development in an historic Ohio cemetery sample. *Paleopathology Association Papers, 31st Annual Meeting Issue*.
9. Edgar HJH. 2003. Prediction of social race category using characteristics of dental morphology. *Dental Anthropology Symposium Paper. Am J Phys Anthropol Supplement* 33.
8. Edgar HJH, Barette TS. 2000. Comparative human and mammalian taphonomy at the Richards Site, Ohio. *Taphonomy Symposium Paper. Am J Phys Anthropol Supplement* 30, page 144.
7. Barette TS, Edgar HJH, Lease LR. 1999. Possible treponematosi in pre-contact Ohio. *Paleopathology Association Papers, 26th Annual Meeting Issue*.
6. Edgar HJH. 1998. Ritual destruction of human remains: A case in Southeast Ohio. *Am J Phys Anthropol Supplement* 26, page 105.
5. Edgar HJH. 1997. Paleopathology of two Pleistocene skeletons from the Great Basin. *Paleopathology Association Papers, 24th Annual Meeting Issue*.
4. Edgar HJH, Condon KW, Condon CG. 1995. Degenerative vertebral pathology in a historic skeletal series. *Am J Phys Anthropol Supplement* 20, page 87.
3. Edgar HJH. 1994. Paleopathology of the Basketmaker II Virgin Anasazi. *Paleopathology Association Papers, 21st Annual Meeting Issue*.
2. Merbs CF, Edgar HJH, Buck A. 1994. Degenerative spondylolisthesis: Its nature and significance. *Paleopathology Association Papers, 21st Annual Meeting Issue*.
1. Hecht HJ. 1992. Paleopathology of Basketmaker II Anasazi from Kane County, Utah. *Paleopathology Association Papers, 19th Annual Meeting Issue*.

#### **Oral presentations at professional meetings**

13. "Human remains processing for skeletal collections using laboratory 'burials'." Koehl AJ, Edgar HJH. 2012. Presented at the Mountain Desert and Coastal Forensic Anthropologists Meeting.
12. "A bioarchaeological recovery at Central New Mexico Community College." Koehl AJ, Edgar HJH, Gerow P, Kurota A. 2012. Presented at the Mountain Desert and Coastal Forensic Anthropologists Meeting.

11. "Research in, research out: the development of a searchable, web-based case file of orthodontic records". Edgar H, Daneshvari S, Harris, E, Kalishman S and Kroth P. Presented at the 15th International Symposium on Dental Morphology, Newcastle UK, 2011.
10. "Dental Morphology of a Juvenile Mummy from the Shelton Expedition: Observations and Measurements Made from CT cans and Stereolithography. 7<sup>th</sup> International Mummy Congress, 2011.
9. "Comparing correlations of metric and morphological data from deciduous and permanent dentitions in a European American sample" Sigma Xi Questa Research Forum for Undergraduates, Youngstown State University, 2007. With LR Lease.
8. "Is there a correlation between deciduous and permanent dental metrics in a sample of female Americans of Hispanic descent?" Sigma Xi Questa Research Forum for Undergraduates, Youngstown State University, 2007. With RJ McGuinn and LR Lease.
7. "Forensic applications of dental morphology in the Southwestern United States" 13<sup>th</sup> International Symposium on Dental Morphology, Łodz Poland, 2005.
6. "Ethics in Biological Anthropology" Discussion moderator, Ethics session of the American Association of Physical Anthropologists Meeting, Milwaukee, 2005.
5. "Non-academic career alternatives for physical anthropologists" Discussion participant, Career Development Workshop of the American Association of Physical Anthropologists Meeting, Tempe, 2003.
4. "Career concerns of physical anthropology graduate students" Presented at the Career Development Workshop of the American Association of Physical Anthropologists Meeting Kansas City, 2001.
3. "Human variation and race in the United States." Presented at University of Pennsylvania Anthropology Graduate Student Symposium on Human Variability: Past and Present, 1999.
2. "Paleopathology of the Wizard's Beach Man (AHUR 2023) and the Spirit Cave Mummy (AHUR 2064)" Presented at Great Basin Archeological Council Meetings Reno, 1996.
1. "Bioarchaeology of Basketmaker II mortuary sites" Presented at 1993 Utah Professional Archaeology Conference, Virgin Anasazi Archaeology symposium Cedar City.

## **Research Funding**

### Extramural grants:

National Park Service, "NAGPRA: Documentation of Jemez Human Remains." 2011-2013. \$89,987. **P.I.**

National Science Foundation, "The cultural and biological significance of ethnic substructure in New Mexican Hispanics." 2010-2012, \$327,703. **Co-P.I.** Keith Hunley, P.I.

National Institutes of Justice, "Isotopic and elemental analysis of the William Bass donated skeletal collection and other modern donated collections." 2008-DB-BX-K13 2008-2012. \$237,750. **P.I. of subaward.** (\$26,580). Nicholas Hermann and Zheng-Hua Li, P.I.s.

Supplemental funding for travel, National Library of Medicine, 2008, \$2,000.

National Library of Medicine NIH, "The impact of an ethnically diverse, web-based case file in orthodontic education." \$413,373. 5G08LM9381 2007-2010. **P.I.** Co-P.I.s Phillip Kroth and Edward Harris.

American Museum of Natural History, Research Support Grant, 2005, \$900.

National Science Foundation, Dissertation Improvement Grant, "Biological distance and the African American dentition." 2000, \$4,580. **Co-P.I.** Paul Sciulli, P.I.

American Museum of Natural History, Research Support Grant, 2000, \$1,000.

Nevada State Museum, Truman-Orr Research Grant, 1995-1996, \$4,000. **P.I.**

### Extramural contracts:

Bureau of Indian Affairs, "NAGPRA Documentation of BIA-owned human remains curated by the Maxwell Museum." 2012-2013, \$14,693. **P.I.**

CNM cemetery (LA 47860) excavation, analysis, and reporting. Laboratory of Human Osteology, in conjunction with the Office of Contract Archaeology, University of New Mexico. 2011-2012. \$1,250. **P.I. of subcontract.**

Alameda Hacienda Cemetery (LA 50240, Area D) excavation, analysis, and reporting. Laboratory of Human Osteology, in conjunction with the Office of Contract Archaeology, University of New Mexico, 2003-2007, \$28,520. **P.I. of subcontract.**

Alameda Elementary School (LA 421) excavation, analysis, and reporting. Laboratory of Human Osteology, in conjunction with the Office of Contract Archaeology, University of New Mexico, 2003-2004, \$2,400. **P.I. of subcontract.**

North Graveyard (33FR2016) excavation, analysis, and report writing, in conjunction with Weller and Associates, Columbus, Ohio, 2002-2004, \$12,500. **P.I. of subcontract.**

United States Bureau of Land Management, Utah division, Research Support Award, 1991, \$1,500.

### Intramural grants:

UNM Research Allocations Committee Discipline-specific Grant, "Regional population biohistory in pre-European contact Mexico". 2013-2014, \$7,400. Role: P.I.

Tinker Foundation/Latin American and Iberian Institute, "Modeling population biohistories in pre-European contact Mexico." 2013, \$777. Role: P.I.

UNM Research Allocations Committee Discipline-specific Small Grant, “Dental morphological variation in post-contact Mexico: the Spanish influence.” 2010-2011, \$4,000. **P.I.**

UNM Research Allocation Committee Discipline-specific Large Grant, “The relationship between genetic admixture and sociocultural history in New Mexico: Social and scientific implications.” 2009, \$7,260. **Co-P.I.** Keith Hunley, P.I.

College of Wooster, Faculty Development Fund Grant, 2003, \$1,260.

Ohio State University, Graduate Student Alumni Research Award, 1999, \$1,760.

Ohio State Department of Anthropology, Daniel Hughes Memorial Travel Awards, 1997-2001, \$750.

Arizona State University Department of Anthropology, Research Award, 1992, \$500.

Arizona State University Department of Anthropology, Tuition Scholarship, 1990-1991, \$2,500.

Other funding:

Research Travel Funding, University of Tennessee Forensic Anthropology Center, “The use of dental morphology in forensic estimation of ancestry.” 2009-2012, \$15,500.

Symposium funding for “Race Reconciled?: How Biological Anthropologists View Human Variation” May 23-25, 2007. \$15,850. **Co-organizer**, with Keith Hunley. UNM Maxwell Museum of Anthropology, Departments of Anthropology and Biology, Office of the Vice President for Research, and Faculty Development Fund.

## **Teaching:**

### Ph.D. committee chair:

Lara Noldner (2013) "Spanish Missionization and Maya Social Structure: skeletal evidence for labor distribution at Tipu, Belize"

Carmen Mosley

Corey Ragsdale

Anna Rautman

Katelyn Rusk

### Ph.D. committee membership:

Shamsi Daneshvari 2011

Meghan Healy

Damien Huffer (Australian National University, 2013)

C.L. Kieffer

Demelza Poe 2010

Wendy Potter 2010

### M.S. committee chair:

Quinn Bailey 2012

Carmen Mosley 2009

Lara Noldner 2009

Alexis O'Donnell

Corey Ragsdale 2012

Anna Rautman 2014

### M.S. Committee membership:

Jessica Gross 2013

Sara Neidbalski

Matthew Rosett 2010

Vito Sparacello 2009

### Student Mentoring:

Anna Rautman, Undergraduate Research Assistantship, 2008.

Kellie Gilbert, Undergraduate Research Assistantship, 2008.

Bonnie Young, Carrie Tingley Hospital Summer Research Internship. 2007, UNM.

Roseanna McGuinn, McNair Fellowship 2005. Undergraduate Research Forum Presidential Award winner, UNM.

Gwen Adickes, Hibben Research Fellowship 2004-2005, UNM

Several senior and junior research projects at the College of Wooster.

### Classroom Teaching Experience:

UNM: Spring 2006 450/550 Osteology/Odontology Practicum

Spring 2007, 2010, 2012 454/554 Human Paleopathology

Spring 2007 495/585 Museum Collections Management

Spring 2008 450/550 Are There Human Races?

Fall 2009 450/550 Are Human Races Real?

Spring 2009, 2011, 2014 459/559 Advanced Osteology  
Fall 2011, 2013 458/558 Dental Anthropology  
Spring 2011 450/550 Disease and Human Evolution  
Summer 2011, 2012, 2013 251 Introduction to Forensic Anthropology  
Fall 2012 450 Race and Human Evolution

Visiting Instructor, The College of Wooster, Department of Sociology and Anthropology,  
Wooster, OH. September 2001-May 2003. Courses taught: Race, Culture and Evolution;  
Introduction to Physical Anthropology; Introduction to Archaeology; Introduction to  
Anthropology

Graduate Teaching Associate, Ohio State University, Department of Anthropology, Columbus,  
OH. March 1997-August 2001. Courses taught: Introduction to Physical Anthropology;  
Introduction to World Prehistory; Introduction to Cultural Anthropology

Adjunct Faculty, Brookhaven Community College, Social Sciences Division, Farmer's Branch,  
TX. August 1995-May 1996. Course taught: Introduction to Anthropology

Independent Studies:

Spring 2008 597 Lara Noldner  
Spring 2006 597 Amanda Busby  
Summer 2005 497 Hazel Garganera, Roseanna McGuinn  
Spring 2005 598 Alaina Goff  
Spring 2005 698 Jennifer Smart  
Fall 2004 698 Amanda Busby

**Service:**

Professional service:

*Journal Reviews:*

American Journal of Physical Anthropology, Archives of Oral Biology, Current Anthropology, International Journal of Osteoarchaeology, International Journal of Pediatric Dentistry, Journal of Anthropological Research, Journal of Human Biology, Odontology, PLoS ONE, Reviews in Anthropology.

*Reviews for funding organizations:*

National Science Foundation senior research and dissertation improvement grants (Biological Anthropology, Archaeology, and Cultural Anthropology), Graduate Women in Science Grants

*Committees and administration:*

American Association of Physical Anthropologists:

Scientific Program Committee, 2006-2008

Ethics Committee, 2004-present

Panel participant, 2005

Career Development Committee, 1998-2004

Panel participant 2000, 2003, 2004

Local Arrangements Committee, 1999, 2010

Dental Anthropology Association:

Dental Anthropology Working Group 2013-present

Executive Officer 2009-2013

Secretary/Treasurer 2003-2006

Membership Committee, 2000-2002

Paleopathology Association:

Cockburn student paper competition judge, 2003

Student Concerns Committee, 2002-2003

Local Arrangements Committee, 1999

UNM:

Associate Director, Office of Contract Archaeology Search Committee, 2013

Museum Studies Program Director Search Committee, 2012-2013

Latin American and Iberian Institute Faculty Concilium, 2013-present

Study Group: Robert Wood Johnson Center for Health Policy Institute for the Study of "Race" and Social Justice, 2008-2009

Anthropology Colloquium Committee, 2012-2014

UNM Board of Archaeologists

Maxwell Museum Research/Collections Committee

Maxwell Museum Publications Committee, Convener

Maxwell Museum Curators Committee

Student representative to Graduate Studies Committee and Council of Graduate Students, Anthropology Department, Ohio State University

Student representative to discipline and subdiscipline, Arizona State University

Student representative to discipline, University of Nevada at Las Vegas



Community Service:

*Professional presentations:*

3. "Does culture change the biology of racial groups?: Case studies in the United States." Presented at "Race Reconciled?: How Biological Anthropologists View Human Variation." A Maxwell Museum of Anthropology Symposium, 2007.
2. "Paleopathology of two Pleistocene skeletons from the Great Basin" Presented as part of the 1996/97 OSU Anthropology Brown Bag lecture series.
1. "Excavation and analysis of a turn-of-the-century African American cemetery" Presented as part of the 1994/95 ASU Anthropology Brown Bag Lecture Series.

*Public presentations:*

19. "Biohistory: tracing the biological consequences of conquest, politics, and trade." Presented at Central Michigan University, 2014.
18. "Efectos histórico-culturales sobre la microevolución en el México prehispánico." Presented with Catherine Willermet at the Universidad Autónoma de Yucatán, 2013.
17. "Forensic and other anthropological uses of dental morphology." Presented in the University of Washington Orthodontic Department Lecture Series, 2013.
16. "The Intersection of Anthropology and Orthodontics." Presented in the New York University Orthodontic Department Lecture Series, 2010.
15. "Orthodontics Project Update Part One: A Web-based Orthodontic Case File System." Presented in the Biomedical Informatics Seminar Series, UNM Health Sciences Library and Informatics Center, 2010.
14. "The Sociocultural & Biological Correlates of Ethnic Substructure among New Mexican Hispanics." Presented in the University of Tennessee Anthropology Visiting Lecture Series, 2010.
13. "Using a Biohistorical Approach to Trace Population Change in the US." Presented in the University of Tennessee Anthropology Visiting Lecture Series, 2010.
12. "Anthropological applications of orthodontic records." Presented at Nova Southeastern University Orthodontic Program, 2009.
11. "The anthropological value of dental morphology." Presented at the meetings of the New Mexico Dental Association, 2009.
10. "Forensic...Or not?!?" Presented as in-service education to staff of the Office of the Medical Investigator, New Mexico, 2009.
9. "What can you learn excavating historic cemeteries?" Presented to the Albuquerque Archaeological Society, 2007.
8. "African American biohistory: Tracing population change with teeth" Presented as part of the Ancestors lecture series, Maxwell Museum of Anthropology, UNM, 2006.
7. "Anthropology, orthodontics, and informatics: Integrating disciplines to develop a new research resource" Presented as part of the Biomedical Informatics Seminar Series, UNM Health Sciences Center, 2006.
6. "Excavations in historic cemeteries" Presented as part of the Albuquerque Tricentennial Celebration, 2006.

5. "Every historic cemetery is different" Presented to the New Mexico Geneological Society, 2006.
4. "Bioarchaeological studies at an African American Cemetery" Presented to the Ohio Archaeological Society, Six Rivers Chapter, 2002.
3. "Mummies, skeletons, and what can be learned from them" Presented to the College of Wooster Sociology/Anthropology Club, 2002.
2. "Dental anthropology and the study of race in the United States" Presented as part of the Sawyer Seminar on Race, "The Concept and Consequences of Race: Cross-National and Cross Disciplinary Perspectives" University of North Carolina Chapel Hill, 2000.
1. "Freedman's Unrest: Bioarchaeology of a turn-of-the-century African American cemetery" Presented as part of the UNC Anthropology Brown Bag lecture series, 2000.

*Public outreach:*

- 2003-2010 Senior, Docent, Middle School and High School Tours of Laboratory of Human Osteology.
- "UNM bone expert comments on Dylan Redwine investigation." Interview for KOAT. July 3, 2013. <http://www.koat.com/news/new-mexico/albuquerque/unm-bone-expert-comments-on-dylan-redwine-investigation/-/9153728/20817480/-/7jbf66z/-/index.html>
- "DNA, Race and Identity" Radio interview with Sylvia Rodriguez for Cultural Energy's People, Culture and Place series. <http://www.culturalenergy.org/mp3/edgar-ortiz.mp3>. With Keith Hunley.
- Wentworth K. Do people know your race from your skin, your hair, or your name?" Interview for UNM Today, November 21, 2011.
- "A research tool with teeth" HSC TV. YouTube video uploaded January 20, 2011. <http://www.youtube.com/watch?v=GROjv5Znptg&feature=plcp>. With Philip Kroth.
- "Does race exist?" Podcast May 12, 2009 <http://unmlive.unm.edu/>. With Keith Hunley.
- "Scientists tackle mystery of the bones." Interview for KRQE. February 16, 2009.
- Linthicum L. Scientist helps ID the remains. Interview for Albuquerque Journal, February 26, 2009.
- De Pastino B. Ancient Massacre discovered in New Mexico: Was it Genocide? Interview for National Geographic News, July 12, 2007.
- Gonzales C. Anthropologists Back Native American Claims. Interview for UNM Today, February 12, 2007.
- Fort C. Looking for Bones to Pick: Maxwell Museum Uses Donated Skeletons for Research and Study in the Classroom. Interview for Daily Lobo, February 9, 2007.
- Carson C. Excavation reveals 78 bodies. Interview for Albuquerque Journal, December 13, 2005.

*Forensic casework:*

- New Mexico State Police, determination of non-medico-legal significance, excavation 1/2014
- New Mexico Office of the Medical Investigator #2010-2099, determination of non-medico-legal significance, excavation
- Mercyhurst Archaeological Institute #MC08-109, PA, 2009, case consultation
- Albuquerque West Mesa serial murder investigation, NM, 2009, excavation/media contact
- Ohio:
- Oak Hill School District, July 2001, excavation
- Edgar, C.V.

Licking Co. Sheriff #13510-01, July 2001, excavation  
Search of Canfield Landfill for State Police, August 2000.  
Franklin Co. Medical Examiner # 99-3208, September 1999, analysis  
Franklin Co. Medical Examiner # 99-2191, September 1999, ID of non-human remains  
Franklin Co. Medical Examiner # 99-1003, September 1999, ID of non-human remains  
Franklin Co. Medical Examiner # 99-2409, September 1999, ID of non-human remains  
Franklin Co. Medical Examiner # 99-1691, September 1999, ID of non-human remains  
Franklin Co. Medical Examiner # 99-1274, September 1999, ID of non-human remains  
Delaware Co. Sheriff # 99-0908454, August 1999, excavation  
Franklin Co. Medical Examiner #99-2271, July 1999, ID of non-human remains  
Delaware Police #98-0409000, September 1998, excavation/landowner contact  
Columbus Police #100-97, November 1997, excavation/analysis  
Franklin Co. Medical Examiner #97-2905, September 1997, analysis  
Muskingum Co. Police #97-06350, May 1997, field search  
Columbus Police #97-363B, May 1997, excavation  
Franklin Co. Medical Examiner #97-591, February 1997, analysis  
Franklin Co. Medical Examiner #97-766, February 1997, excavation/analysis

Forensic casework for the Washoe County, NV and Maricopa County, AZ medical examiner's offices.