

Heather Joy Hecht Edgar
Department of Anthropology
Office of the Medical Investigator/ Department of Pathology
University of New Mexico

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Education and Certification

Diplomate, American Board of Forensic Anthropology, 2020

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:

Associate Professor, 2015-present, Anthropology Department, University of New Mexico (UNM), Albuquerque NM.

Associate Professor/Forensic Anthropologist, 2017-present, Pathology Department/Office of the Medical Investigator, UNM, Albuquerque NM.

Associate Professor, 2015-2020, Health Sciences Library and Informatics Center, UNM, Albuquerque NM (courtesy appointment).

Curator of Human Osteology, 2003-2017, Maxwell Museum of Anthropology, UNM, Albuquerque NM.

Assistant Professor, 2010-2015, Anthropology Department UNM, Albuquerque NM.

Assistant Professor, 2010-2015, Health Sciences Library and Informatics Center, UNM, Albuquerque NM (courtesy appointment).

Research Assistant Professor, 2008-2010, Health Sciences Library and Informatics Center, UNM, Albuquerque NM.

Research Assistant Professor, 2004-2010, Anthropology Department, UNM, Albuquerque NM.

Other professional positions:

Visiting Instructor, 2001-2003, Department of Sociology and Anthropology, 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.

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.

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

Archaeological Assistant, 1993, Federal Land Exchange Project, ASU Department of Anthropology, Tempe, AZ.

Research Assistant, 1992, ASU Department of Anthropology, Tempe, AZ.

Computer Specialist, 1992, ASU Department of Anthropology, Tempe, AZ.

Museum Technician, 1991-1992, ASU Department of Anthropology, Tempe, AZ.

Professional recognition and honors:

Featured speaker, Western Bioarchaeology Group meetings, “Bridge lab: a model for integrating bioarchaeology and human biology.” 2019.

New York City Office of the Medical Examiner Visiting Scientist, February 2017.

Invited keynote, presented at the Texas State University Forensic Anthropology Society conference, “You CAN handle the tooth: Dental morphology in forensics and bioarchaeology.” 2017.

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.

Invited keynote, Sawyer Seminar on Race, University of North Carolina Chapel Hill, “Dental anthropology and the study of race in the United States.” 2000.

Preparing Future Faculty Fellow, 1999.

Phi Kappa Phi Honor Society, 1999.

Narrative Description of Research, Teaching, and Service

I am a biocultural anthropologist with research interests spanning bioarchaeology, forensic anthropology, and human biology. My lab, the Bridge Lab group, asks questions relating to interactions among culture, health, and population variation across these fields, especially as related to inequality. We are interested in how historical events and cultural trends shape population variation, developmental stress, and outcomes in health inequality.

My bioarchaeological research investigates the biocultural effects of the *Castas* system in colonial Mexico. This system determined where people could live, what work they could do, and what rights they had, based on their proportions of African, Native American, and European admixture. Using craniometrics and dental morphology as indicators of ancestry, coupled with indicators of developmental stress such as dental microstructure defects and cranial asymmetry, my team is investigating the consequences of colonialism for individuals and groups. Cathy Willermet (CMU) and I organized a symposium on the subject this past May, which will result in an edited volume, "1521: The biocultural consequences of contact in Mexico," for U Florida Press.

Over the last few years, my forensic research has concerned the development of a new resource, the New Mexico Decedent Image Database (NMDID). This tool provides unprecedented opportunities for research, providing to researchers free of cost over 15,000 documented whole body computed tomography (CT) scans. While forensic anthropologists will make use of this resource, additional applications include pathology, radiology, public health, safety engineering, biomechanics, and growth and development. I recently received funding for a pilot project on geometric morphometric analyses of CTs from American Indian decedents in NMDID, to better understand variation among contemporary American Indians in New Mexico and improve identification of missing persons. This research builds on my prior work in the forensic estimation of bioaffinity, as does a special issue of *Forensic Anthropology* I am co-editing with Marin Pilloud (UNR), "Reassessing the assessment of race." I conduct forensic casework for the state of New Mexico as a Diplomate of the American Board of Forensic Anthropology.

Within human biology, I investigate concepts of ethnicity and health disparities in New Mexico. I continue to work with Keith Hunley (UNM) to build on the highly successful Heritage New Mexico project, drawing on metadata gathered for NMDID. For example, a paper under review now examines variation in age at death and manner of death among regionally relevant subgroups of Hispanics, uncovering hidden heterogeneity within this population. I am also using survey data to investigate the extent to which NMS use phenotypic clues to recognize group membership in each other.

My job as a teacher is to stimulate students' desire to learn by encouraging them to develop their own critical perspectives about anthropological issues. 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. In advanced classes, I aim to have students achieve a sophisticated understanding of the interaction of biology and culture as well as the technical aspects of the course material. I am currently redeveloping our very popular Forensic Anthropology class as a laboratory course that will meet general education requirements, creating both in-class and on-line versions. Recent additions to my teaching repertoire include three-day training sessions with Fellows in forensic pathology, and outreach and education for law enforcement and death investigators. This non-traditional teaching has lead me to re-think my pedagogy in and out of the traditional classroom.

My university service includes participating in hiring searches, chairing the LAII Operations Committee, and mentoring junior faculty members. Regarding professional service, I am on the editorial board of the Dental Anthropology Journal and the scientific review board of Estudios de Antropología Biológica. My tenure as the president of the Dental Anthropology Association ended in 2019, as did my tenure on the NAGPRA Review Committee. As part of that service, I twice chaired the subcommittee to write the annual report to Congress. Much of community service relates to my forensic anthropological casework, including outreach to law enforcement.

Scholarly achievements

Books and Datasets:

Edgar HJH, Daneshvari Berry S, Moes E, Adolphi NL, Bridges P, Nolte KB. 2020. New Mexico Decedent Image Database. Office of the Medical Investigator, University of New Mexico. doi.org/10.25827/5s8c-n515.

Edgar HJH. 2017. Dental morphology for anthropology: an illustrated manual. Routledge. ISBN 978-1629585123.

Maxwell Museum of Anthropology Orthodontics Case File System. 2009. Maxwell Museum of Anthropology and UNM Health Sciences Library and Informatics center. hsc.unm.edu/programs/ocfs

Articles in Refereed Journals (*student co-author):

40. Daneshvari Berry S, Edgar HJH, Mosley C, Hunley K. Refined, regionally-specific data standards reveal heterogeneity in Hispanic death records. In press. AMIA Joint Summits on Translational Science proceedings 2021.
39. O'Donnell L, Edgar HJH. In press. Social determinants of health and wealth in historic African Americans. *Biodemography Social Biol*.
38. O'Donnell L, Hill EC, Anderson AS, Edgar HJH. 2020. Cribra orbitalia and porotic hyperostosis are associated with respiratory infections in a contemporary mortality sample from New Mexico. *Am J Phys Anthropol* 173(4):721-733.
37. Kennett DJ, Prufer KM, Culleton BJ, George RJ, Robinson M, Trask WR, Buckley GM, Moes E*, Kate EJ, Harper TK, O'Donnell L, Ray E, Hill EC*, Alsgaard A, Merriman C*, Meredith C, Edgar HJH, Awe JA, Gutierrez SA. 2020. Early isotopic evidence for maize in the Americas. *Science Advances* 6(23):eaba3245. DOI: 10.1126/sciadv.aba3245
36. Hunley KL, Edgar, HJH, Healy ME, Mosley C. 2020. Colonialism and the co-evolution of ethnic and genetic structure in New Mexico. *Am J Phys Anthropol* 171:509-519. <https://doi.org/10.1002/ajpa.23997>
35. *Rautman ALM, Edgar HJH. 2020. Childhood variation in skeletal and dental development. *Dental Anthropology* 33(1): 3-16.
35. Berry SD, Edgar H. 2020. Extracting and Standardizing Medical Examiner Data to Improve Health. AMIA Joint Summits on Translational Science proceedings 2020: 63–70.
34. Berry SD, Edgar HJH. 2019. Standardizing Data from the Dead. *Stud Health Technol Inform* 264:1427-1428.
33. Ragsdale CS, Willermet C, and Edgar HJH. 2019. Changes in indigenous population structure in colonial Mexico City and Morelos. *Int J Osteoarchaeology* 39(4):501-512. <https://doi.org/10.1002/oa.2743>.
32. *Gross J, Edgar H. 2019. Informativeness of dental morphology in ancestry estimation in African Americans. *Am J Phys Anthropol*. <https://doi.org/10.1002/ajpa.23768>
31. *Healy M, Edgar HJH, *Mosley C, Hunley KL. 2018. Associations between ethnic identity, regional history, and genomic ancestry in New Mexican of Spanish-speaking descent. *Biodemography and Social Biology* 64(2): 152-170. DOI:10.1080/19485565.2018.1545563

30. Pilloud MA, *Maier C, Scott GR, Edgar HJH. 2018. Molar crenulation trait definition and variation in modern human populations. *Homo: J Comparative Hum Biol*
DOI:10.1016/j.jchb.2018.06.001
29. Hunley KL, Edgar HJH, *Healy M, *Mosley C, Cabana G, *West F. 2017. Social Identity in New Mexicans of Spanish-Speaking Descent Highlights Limitations of Using Standardized Ethnic Terminology in Research. *Hum Biol* 89(3):Article 4.
28. *Healy ME, *Gross J, Hill D, Berwick M, Edgar HJH, Hunley KL. 2017. Social-group identity and population substructure in admixed populations in New Mexico and Latin America. *PLoS ONE* 12(10):e0185503.
27. Cucina A, Edgar, HJH, Ragsdale CR. 2017. Oaxaca and its neighbors in prehispanic times: population movements from the perspective of dental morphological traits. Special issue: The bioarchaeology of Oaxaca. *J Archaeological Sci: Reports*. 13:751-758.
26. *O'Donnell A, Daneshvari SR, Edgar HJH. 2017. Can cephalometrics be used to estimate sex in juveniles? *J Forensic Sci*. DOI: 10.1111/1556-4029.13300
25. Ragsdale C, Edgar HJH, Melgar E. 2016. Origins of the offerings of the Templo Mayor, Tenochtitlan. *Cur Anthropol* 57(3)357-369.
24. Ragsdale CR, Edgar HJH. 2016. Cultural effects on phenetic distances among Postclassic Mexican and Southwest United States populations. *Int J Osteoarchaeology*. 26(1):53-67.
23. Hotchkiss WR, Schwend RM, Bosch PP, Edgar HJH, *Young BN. 2016. Defining the differences in transverse plane trajectories for thoracic pedicle screw insertion: anatomic versus medial. *Spine Deformity* 4:22-26.
22. Edgar HJH, Willermet CM, *Ragsdale CS, *O'Donnell A, Daneshvari SR. 2015. Frequencies of rare incisor variations reflect factors influencing precontact population relationships in Mexico and the American Southwest. *Int J Osteoarchaeology* 26(6): 987-1000.
21. *Ragsdale CS, Edgar HJH. 2015. Cultural interaction and biological distance in postclassic period Mexico. *Am J Phys Anthropol* 157:121-133.
20. *Rautman ALM, Edgar, HJH. 2014. Secular change in dental development in New Mexican females. *Dental Anthropol J*. 26(3): 31-37.
19. Edgar HJH, *Rautman ALM. 2014. 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* 57(2):237-247.
18. *Noldner L, Edgar HJH. 2013. Technical note: 3D representation and analysis of entesis 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* 58(s1):s3-8. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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 Anthropol J 17(2):55-62.
1. Edgar HJH, Sciulli PW. 2004. Elongated premolar: A new morphological variant. Dental Anthropol J 17 (1): 24-27.

Book chapters:

10. Willermet CM, Daniels J, Edgar HJH. 2019. Robust estimator of grade differences: a new statistical solution to an old categorical data problem. In: Willermet CM, Li S-H (editors). Evaluating evidence in biological anthropology: the strange and the familiar. Cambridge University Press. 146-173.
9. Ragsdale CS, Edgar HJH. 2018. Population Continuity and replacement in the pre-contact Valley of Mexico. In: Willermet CM, Cucina A (editors) Interdisciplinary approaches to the bioarchaeology of Mesoamerica. University of Florida Press. 37-69.

8. Edgar HJH, Ousley SD. 2016. Dominance in dental morphological traits: implications for biological distance studies. In: Pilloud MA, Hefner JT, editors. *Biological distance analysis: forensic and bioarchaeological perspectives*. Elsevier. 317-334.
7. Pilloud MA, Edgar HJH, *George R. 2016. Dental morphology in biodistance analysis: bioarchaeological and forensic applications. In: Pilloud MA, Hefner JT, editors. *Biological distance analysis: forensic and bioarchaeological perspectives*. Elsevier. 109-134.
6. Edgar HJH, *Rautman ALM. 2016. Forensic Odontology. In: Irish JD, Scott GR, editors. *A companion to dental anthropology*. Wiley. 339-361.
5. Dixon EJ, Heaton TH, Lee CM, Fifield T, Coltrain JB, Kemp B, Owsley D, Parrish E, Turner CG II, Edgar, HJH, Worl R, Smith DG, Farmer GL. 2014. Evidence of Early Maritime Adaptations and Coastal Migration. In: Owsley DW, Jantz RL, editors. *Kennewick Man: The Scientific Investigation of an Ancient American Skeleton*. Texas A&M University Press. 537-548.
4. Edgar HJH. 2014. 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. 191-206.
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 Łódź Press. 39-50.

Special Journal Issues:

Edgar HJH, Hunley KL. 2009. Special issue: race reconciled: how biological anthropologists view human variation. *Am J Phys Anthropol*. 139(1):1-107.

Other Writings:

34. Edgar HJH. 2019. Book review: A world view of bioculturally modified teeth. *Am J Phys Anthropol*. DOI: 10.1002/ajpa.23824
33. Edgar HJH. 2018. Book review: New directions in biocultural anthropology. *Am J Hum Biol*. DOI: 10.1002/ajhb.23201
32. Edgar HJH. 2015. Book review: The myth of race: the troubling persistence of an unscientific idea. *Am Anthropol* 117(3):627.
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[®] product catalogs.
17. Edgar HJH. 2006. Minutes of the 21st meeting of the Dental Anthropology Association. *Dental Anthropology Journal* 19(2).
16. Edgar HJH 2006. Minutes of the 20th 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). *J Anthropological Res* 61:125-126.

13. Edgar HJH, Nardin A. 2005. Announcement: Renee M. Menegaz-Bock dental anthropology collection. *Am J Phys Anthropol* 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 19th 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 and Websites:

7. New Mexico Decedent Image Database. 2020. Free-access, searchable database of whole body CT scans. **Project Director**. nmdid.unm.edu
6. La Frontera y Nuevo Mexico. Maxwell Museum of Anthropology Spring 2017. **Contributor**.
5. Heritage New Mexico installation. Maxwell Museum of Anthropology Winter/Spring 2014-2015. **Co-Curator**, with Keith Hunley.
4. Heritage New Mexico. 2014; updated 2018. Interactive Internet exhibit, **Co-curator**, with Keith Hunley. heritagenm.unm.edu

3. Maxwell Museum of Anthropology Orthodontics Case File System. 2009. **Project Director.** hsc.unm.edu/programs/ocfs
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.

Participation in invited workshops/training:

3. 3D morphometrics and image analysis intensive summer workshop. 2019. Funded by National Science Foundation, ABI-1759637.
2. 3D/VR Repository Practices and Standards. Developing Library Strategy for 3D and Virtual Reality Collection Development and Reuse. 2018. Funded by the Institute of Museum and Library Services, LG-73-17-0141-17.
1. Collaborative Curation of North American Human Remains. 2017. Funded by the Institute of Museum and Library Services, MG-30-16-0043-16.

Works in progress

Book:

Edgar HJH, Willermet C (editors). Under contract for 2021. 1521: The biocultural consequences of contact in Mexico. University of Florida Press.

Special Journal Issue:

Edgar HJH, Pilloud MA. In progress for 2021. Reassessing the assessment of race. Forensic Anthropology.

Articles:

- Edgar HJH, Moes E, Willermet CM, Ragsdale CS. In review. Brief communication: conventional microscopy makes perikymata count and spacing data feasible for large samples. Submitted to Am J Phys Anthropol.
- Rusk K, Hunley K, Mosley C, Healy M, Edgar H. In review. Facial fluctuating asymmetry as a signal for developmental origins of health and disease in a living human sample. Submitted to Homo: Journal of Comparative Human Anatomy.
- Gross JG, Edgar HJH. In review. Variation in African ancestry among African Americans across space and time. Invited submission for a special issue of Am J Phys Anthropol.
- Kennett D, Lipson M, Prufer KM, Mora-Marin D, George RJ, Rohland N, Robinson M, Trask WR, Edgar HJH, Hill EK, Ray E, Lynch P, Moes E, O'Donnell A, Harper T, Kate E, Ramos J, Morris J, Gutierrez S, Culleton BJ, Awe JJ, Reich D. In review. Convergent Genetic, Linguistic, and Archaeological Evidence for an Ancient Migration of Farmers into the Maya Region. Submitted to Nature.
- Daneshvari Berry S, Edgar HJH. in review. Announcement: The New Mexico Decedent Image Database. Forensic Submitted to: Forensic Imaging.

Hunley KL, Moes E, Edgar HJH, Mosley C, Healy M, Dixon A. In review. Colonialism, ethnogenesis, and biogeographic ancestry in the US Southwest. Submitted to Am J Phys Anthropol.

Book chapters:

Dixon EJ, Kemp BM, Coltrain JB, Owsley DW, Parrish E, Turner C, Edgar HJH, Worl RK, Lee CM, Fifield TE, Heaton TH, Sattler RA, Smith DG, Farmer GL. In review. Shuká Káa. Aurora Monograph series, Alaska Anthropological Association.

Ragsdale CS, Edgar HJH, Noldner L. In review. In: Stodder, ALW (editor) Readings in Southwestern Bioarchaeology. University of Florida Press.

Willermet C, Ragsdale CS, Edgar HJH. In review. Population continuity and mobility across Mesoamerica. In: Tiesler V (editor) Routledge Handbook of Mesoamerican Bioarchaeology.

Refereed Abstracts:

81. Berry SD, Edgar HJH. 2021. NMDID: a new resource for forensic anthropology. National Institute of Justice Forensic Science Research and Development Symposium, 2021.
80. Murie B, Decker L, Rautman A, Edgar H. Putting the pieces together again: a case of dismemberment using a circular saw. 2020. National Association of Medical Examiners Annual meeting.
79. Edgar HJH. 2020. Population structure, Population heterogeneity, and sources of error in the forensic estimation of “race.” Proceedings of the American Academy of Forensic Sciences 72nd Annual Scientific meeting, 119.
78. Rautman ALM, Edgar HJH. 2020. Longitudinal variation in skeletal and dental development. Proceedings of the American Academy of Forensic Sciences 72nd Annual Scientific meeting, 115.
77. Mosley C, Healy M, Rusk, K, Hunley K, Edgar H. 2019. Allostatic load predicts chronic disease in New Mexicans of Spanish-speaking descent. Am J Phys Anthropol Supp
76. Daneshvari Berry S, Edgar HJH. 2019. Research from records: retrieving and sharing useful data from a non-research database. Am J Phys Anthropol Supp
75. Edgar HJH, Daneshvari Berry S. 2019. NMDID: A new research resource for biological anthropology. Am J Phys Anthropol Supp
74. Edgar HJH, Berry S. 2019. A new, large-scale documented database of forensic whole-body CT images available for research. IEEE 16th annual International Symposium on Biomedical Imaging.
73. Edgar HJH, Berry S. 2019. A new, large-scale documented database of forensic whole-body CT images available for research. IEEE 16th annual International Symposium on Biomedical Imaging.
72. Edgar HJH, Berry S. 2019. Testing the homogeneity of “White”: Dental morphology in Americans and Australians of European decent. Proceedings of the American Academy of Forensic Sciences 71st Annual Scientific Meeting, 151.
71. Marquardt W, O’Donnell L, Price K, Williams K, Edgar H. 2018. Mortuary analysis of St. Joseph Sanatorium, Albuquerque, NM: A multidisciplinary approach. Proceedings of the meetings of the Society for American Anthropology.

70. Edgar HJH, Berry SD. 2018. An upcoming large, whole body cadaver CT database: Potential applications in evolutionary medicine. Program of the 4th annual meeting of the International Society for Evolutionary Medicine and Public Health.
69. Edgar HJH, Berry SD, Adolphi N. 2018. Developing a large-scale, whole body CT image database for research and teaching. Program of the 7th annual meeting of the International Society for Forensic Radiology and Imaging.
68. Edgar HJH, Rusk K, Ragsdale CS. 2018. Spanish/North African population affinity: implications for North American Mestizos. *Am J Phys Anthropol*.
67. Rusk K, Mosley C, Hunley K, Healy M, Edgar HJH. 2018. Facial fluctuating asymmetry as a marker of cumulative health burden in women. *Am J Phys Anthropol*.
66. Willermet C, Edgar HJH, Moes E, Ragsdale CS. 2018. Estimating African ancestry in two historic ossuaries in New Spain. *Am J Phys Anthropol*.
65. Hill E, Moes E, Trask WR, Kate E, McKenzie C, Edgar HJH, Kennett DJ, Prufer KM. 2018. Current research on Late Pleistocene and Early Holocene human remains from the Bladen Nature Reserve in southern Belize. *Am J Phys Anthropol*.
64. Edgar HJH, Berry SD. 2018. Standardizing a Large-Scale, Whole Body Computed Tomography (CT) Image Database. *J Forensic Sci*.
63. Daneshvari Berry S, Edgar HJH. 2017. Large-Scale Computed Tomography Database with Associated Lifestyle and Health Data. NAME Annual Meeting Program. 2017: 75.
62. Edgar H, Ragsdale C, Rusk K. 2017. Dental morphological evidence for circum-Mediterranean population relationships, and implications for Mestizos in North America. International Symposium on Dental Morphology meetings program, 132.
61. Gross J, Edgar H. 2017. Estimating ancestry proportions in African American samples using dental morphology. International Symposium on Dental Morphology meetings program, 136.
60. Cucina A, Edgar H, Ragsdale C. 2017. Microevolutionary processes in Mesoamerica from precontact to modern times. International Symposium on Dental Morphology meetings program, 42.
59. Meyer JV, Edgar HJH, Berry SD, Marquardt WF. 2017. Sexual dimorphism of the capitate using 3D data. *Am J Phys Anthropol*.
58. Ragsdale C, Edgar HJH. 2017. Population continuity and replacement in the pre-contact Valley of Mexico. *Am J Phys Anthropol*.
57. Edgar HJH, Gwin K, Rusk K. 2017. Midline bony landmarks are poor, but better than soft tissue landmarks, for estimating population affiliation in unknown individuals. *Am J Phys Anthropol*.
56. West F, Hunley K, Healy M, Mosley C, Cabana G, Edgar H. 2017. Return of genetic ancestry testing results: an academic-setting case study. *Am J Hum Bio* 29(2).
55. Edgar H, Toya C. 2016. Context and Collaboration: The Maxwell's Repatriation to Jemez Pueblo. Program of the 81st Annual Meeting, Society for American Archaeology
54. Ragsdale CS, Edgar HJH, Cucina A. 2016. A biohistory of Mexico from ~1250 to the present. *Am J Phys Anthropol Suppl* 52.
53. Edgar HJH, Cucina A, Daneshvari SR. 2016. Can dental morphology contribute to the identification of undocumented border crossers?. *Am J Phys Anthropol Suppl* 52.
52. Edgar HJH, Ousley SD. 2015. Dominance in dental morphological traits: implications for Edgar, C.V.

- biological distance studies. *Am J Phys Anthropol Suppl* 50:128.
51. Rautman ALM, Edgar HJH. 2015. Developmental tradeoffs of the dental and skeletal systems. *Am J Phys Anthropol Suppl* 50:262.
 50. Ragsdale CS, Edgar HJH. 2015. Cultural interaction and biological distance in Postclassic Period Mexico. *Am J Phys Anthropol Suppl* 50:261.
 49. Edgar HJH, Ragsdale CS. 2015. Origins of the Templo Mayor skull masks. Program of the 80th Annual Meeting, Society for American Archaeology 288.
 48. Ragsdale C, Edgar HJH. 2015. Biological distance among Huastec, Veracruz, and Maya groups. Program of the 80th Annual Meeting, Society for American Archaeology 195.
 47. Edgar HJH, O'Donnell, A, Ragsdale CS, Willermet CM. 2014. Serial founder effects, population isolation and migration, and rare incisor variants in Mexico and the U.S. Southwest. *Bull Int Assoc Paleodont* 8(1):51.
 46. Rusk K, Edgar HJH, Hunley. 2014. Structure analysis of dental morphological data results in patterns similar to analyses of genetic data. *Am J Phys 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 Phys 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. Society for American Archaeology.
 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 15th 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* 44:184.
- Edgar, C.V.

- 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 73rd annual meeting program.
 19. Potter WE, Edgar HJH. 2008. Identification of pseudopathology using scanning electron microscopy and energy dispersive spectroscopy. *Paleopathology Association Papers* 35th 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 treponematoses 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*.

Other presentations at professional meetings:

18. "New Mexico Decedent Image Database (NMDID) presentation: questions and answers." In AAFS workshop: "Forensic anthropology databases for research purposes." American Academy of Forensic Sciences, virtual, 2021 (withdrawn).

17. Daneshvari Berry S, Edgar HJH. 2017. Creating and Validating a Minimum Data Set for a Decedent Image Database, American Health Information Management Association, Los Angeles, CA.
16. "Dental Anthropology Association Workshop: Tooth Crown and Root Morphology." With GR Scott and JD Irish. Presented in conjunction with the meetings of the American Association of Physical Anthropologists, 2017.
15. "The New Mexico bioarchaeology consortium: building the metadata and creating the gateways for future research." Stodder ALW, Edgar HJH, Akins AJ, Durand Gore K. 2016. Presented at the Southwest Symposium.
14. "Social determinants of health and wealth at Freedman's Cemetery, Dallas, Texas." O'Donnell A, Edgar, HJH. 2015. Presented at the Western Bioarchaeological Interest Group. Also presented at the Southwest Association of Biological Anthropologists.
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. 7th 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" 13th International Symposium on Dental Morphology, Łódź 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 (\$2,166,896 since 2003)

Extramural grants:

National Institute of Justice, "Facilitating multidisciplinary forensic research using a unique computed tomography dataset." 2017-2020. 2016-DN-BX-0144 \$702,938. **P.I.**

National Park Service, "Documentation grant for Pottery Mound NAGPRA materials." 2016-2017. \$89,935. **Co-P.I.** Dorothy Larson, P.I.

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

National Science Foundation, "The cultural and biological significance of ethnic substructure in New Mexican Hispanics." 2010-2012, \$327,703, NSF-BCS-0962825. **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." 2008-2012. \$237,750, 2008-DB-BX-K13. **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." 2007-2010, \$413,373, 5G08LM9381. **P.I.** Co-P.I.s Philip 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.

Extramural contracts:

RTI/NIJ Forensic Technology Center of Excellence, "Webinar Series: Using the New Mexico Decedent Image Database for research and teaching." Invited application. 2020. \$16,112. **P.I.**

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 ADVANCE Women in STEM Faculty Development Fund, "Improving identification for missing and murdered American Indians." 2020-2021, \$19,004 (\$6,276 plus 0.25 graduate assistant). **P.I.**

UNM Pathology Department Pilot Grant, "Improving identification of missing and murdered American Indians." 2020-2021, \$10,368. **P.I.**, Natalie Adolphi, Co-I.

Faculty Research and Creative Endeavors Grant (Central Michigan University), "1519: The biocultural consequences of contact in Mexico." 2019-2020, \$8,000, **Co-P.I.** Cathy Willermet, P.I.

Latin American and Iberian Institute travel grant. 2020 (not used). \$458.

Substance Use and Disorders Grand Challenge Pilot Grant, "Do granular classifications of ethnicity capture hidden heterogeneity in the causes of early and alcohol-related death?: A novel application of medical examiner data." 2019-2020, \$3,000. **P.I.** Scott Tonigan and Keith Hunley, Co-Investigators.

UNM Research Allocations Committee Discipline-specific Grant, "Structural violence and phenotypic variation in colonial Mexico City." 2016-2017, \$7,950. **P.I.**

UNM OVPR Equipment Grant, "3D scanner for research and education." 2014. \$27,800. Role: **P.I.**

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

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

Special Legislative Funding, State of New Mexico, “Remodel for Laboratory of Human Osteology.” 2016, \$110,000. With Anna Rautman.

Research Travel Funding, University of Tennessee Forensic Anthropology Center, “The use of dental morphology in forensic estimation of ancestry.” 2009-2012; 2015, \$17,500.

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.

Pending funding:

National Institute of Justice, “Developing and testing the Computer-Assisted CT Identification Method (CACTI).” In review, \$712,894. **Co-Investigator** (\$135,811). Sharon Derrick, P.I.

Teaching

Doctoral advisement:

Jessica Gross 2019 “The history of admixture in African Americans”

Emily Moes

Carmen Mosley 2019 “A biocultural examination of health risk among New Mexicans of Spanish-speaking decent”

Lara Noldner 2013 “Spanish Missionization and Maya social structure: skeletal evidence for labor distribution at Tipu, Belize”

Corey Ragsdale 2015 “Cultural interaction and biological distance among Postclassic Mexican populations”

Anna Rautman

Katelyn Rusk 2019 “Facial fluctuating asymmetry: developmental origins and implications for long-term health”

Doctoral committee membership:

Shamsi Daneshvari 2011

Meghan Healy 2019

Ethan Hill 2020

Damien Huffer (Australian National University) 2013

Jana Meyer

Nor Atika Md. Asher (University of Adelaide) 2015

Alexis O'Donnell 2019

Demelza Poe 2010

Wendy Potter 2010

Master's advisement:

Nicolette Appel

Quinn Bailey 2012

Paige Lynch 2020

Jana Meyer (co-chair with Emily Jones) 2018

Emily Moes 2019

Edgar, C.V.

Carmen Mosley 2009
Lara Noldner 2009
Alexis O'Donnell 2015
Corey Ragsdale 2012
Anna Rautman 2014
Katelyn Rusk 2014

Master's Committee Membership:

Donovan Adams (Boston University) 2015
Alejandro Arguelles (Universidad Nacional Autonoma de Mexico) 2018
Kara Bond (UNM Public Archaeology)
Shamsi Daneshvari (MSCR, UNM) 2014
Tyler DeVaughan (Nova Southeastern Dental School) 2017
Madeline Green (Boston University)
Jessica Gross 2013
Ethan Hill 2017
Sara Neidbalski 2013
Matthew Rosett 2010
Vito Sparacello 2009

Student and Post-Doctoral Mentoring:

Christy Mancuso, ASERT post-doctoral fellowship, co-mentor, 2018-present
Kate Rusk, Hibben Research Fellowship, 2016-2018
Jenifer Richards, AAPA Undergraduate Research Forum Travel Award, 2017
STEM University undergraduate outreach, 2016
Anna Rautman, Undergraduate Research Assistantship, 2008
Kellie Gilbert, Undergraduate Research Assistantship, 2008
Bonnie Young, Carrie Tingley Hospital Summer Research Internship, 2007
Roseanna McGuinn, McNair Fellowship, 2005. Undergraduate Research Forum Presidential Award winner
Gwen Adickes, Hibben Research Fellowship, 2004-2005
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, 2015; Fall 2018 454/554 Human Paleopathology
Spring 2007 495/585 Museum Collections Management
Spring 2008, Fall 2009, 2012, 2020 450/550 Human Variation and the Concept of Race (also taught as "Are There Human Races?" "Are Human Races Real?" and "Race and Human Evolution")
Spring 2009, 2011, 2014, 2016 459/559 Advanced Osteology
Fall 2011, 2013, Spring 2018 458/558 Dental Anthropology
Spring 2011, 2014, Fall 2016 450/550 Disease in Human Evolution
Summer 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2019; Spring 2017 2019 2020 2190C (251) Forensic Anthropology

Fall 2019 498 Anthropology Honors Seminar

OMI Pathology Fellows training in forensic anthropology (18 hours), 2018, 2019

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.

Service:

Professional service:

Peer reviews:

American Anthropologist, American Journal of Human Biology, American Journal of Physical Anthropology, Anales de Antropología, Archives of Oral Biology, Cambridge University Press, Current Anthropology, Dental Anthropology Journal, Educational Researcher, Forensic Anthropology, Forensic Imaging, Human Nature, International Journal of Heritage Studies, International Journal of Osteoarchaeology, International Journal of Pediatric Dentistry, Journal of the American Medical Informatics Association (Annual Meetings), Journal of Anthropological Research, Journal of Anthropological Science, Journal of Forensic and Legal Medicine, Journal of Forensic Science, Latin American Antiquity, National Park Service osteological analysis report (Tuqan Man), Naturwissenschaften, New Florida Journal of Anthropology, Odontology, PLoS ONE, Reviews in Anthropology

Reviews for funding organizations:

National Science Foundation senior research (Biological Anthropology, Archaeology, and Cultural Anthropology) and dissertation improvement grants (Biological Anthropology panel member, 2016; Archaeology), National Institute of Minority Health and Health Disparities Loan Repayment Program, Graduate Women in Science Grants, Croatian Science Foundation

Committees and administration:

American Academy of Forensic Science:

Working Group ANSI/ASB Standard: Ancestry Estimation in Forensic Anthropology, 2020 Symposium organizer/moderator, 2020

American Association of Physical Anthropologists:

Ethics Committee, 2004-2006, 2015-2016

Panel participant, 2005

Committee on Diversity panel participant, 2015

Scientific Program Committee, 2006-2008

Career Development Committee, 1998-2004

Panel participant 2000, 2003, 2004

Local Arrangements Committee, 1999, 2010

Symposium organizer, 2003

Dental Anthropology Association:

Editorial Board: 2020-2023
Past President 2019-2020
President 2016-2019
President-elect 2015-2016
Dental Anthropology Working Group 2013-2017
Executive Officer 2009-2013
Secretary/Treasurer 2003-2006
Membership Committee, 2000-2002

Native American Graves Protection and Repatriation Review Committee member, 2015-2019
Chair, Annual Report to Congress Committee, 2017, 2018

Paleopathology Association:

Cockburn student paper competition judge, 2003
Student Concerns Committee, 2002-2003
Local Arrangements Committee, 1999

Scientific Review Board, Estudios de Antropología Biológica, (Mexico), 2017-2020.
Western Bioarchaeology Group student poster competition judge, 2019

UNM:

Anthropology Department:

Inclusion, Diversity, Equity, and Anti-bias Committee, 2020
Pre-tenure faculty mentoring committee, Kari Schleher, 2020
Teaching reviewer, Joshua Shapero, 2019-2021
Assistant Professor/Archaeology Curator Search Committee, 2019
Chair Selection Committee, 2018-2019
Pre-tenure faculty mentoring, Siobhán Mattison, 2017-2020
Colloquium Committee, 2012-2014
Board of Archaeologists 2005-2017

Maxwell Museum:

Collections Division Head, 2015-2017
Pre-Disaster Mitigation Committee, 2015
Collections Manager Search Committee, 2015
Associate Director, Office of Contract Archaeology Search Committee, 2013
Museum Studies Program Director Search Committee, 2012-2013
Collections Committee 2003-2017
Research Committee 2003-2017

Pathology Department:

Research Committee, 2018-present

Latin American and Iberian Institute:

Faculty Concilium, 2013-present
Operations Committee 2018-2021
Chair, 2019-2021

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

Student service:

Representative to Graduate Studies Committee and Council of Graduate Students,
Anthropology Department, Ohio State University
Representative to discipline and sub-discipline, Arizona State University
Representative to discipline, University of Nevada at Las Vegas

Community Service:

Courtroom Testimony:

2017CR28, People of the State of Colorado v. Ashford Archer, San Miguel County CO. 2019.
2017CR31, People of the State of Colorado v. Nashika Bramble, San Miguel County CO. 2019.
2017CR29, People of the State of Colorado v. Madani Ceus, Gunnison County CO. 2020.

Forensic Casework and Consulting (professional and volunteer):

State of NM, 2009; 2017-present

Tokyo, Japan, 2019

Navajo Nation, 2017-present

San Miguel County CO, 2017

Mahoning County OH, 2016

Erie PA, 2009

Portsmouth, Licking County, Canfield, Franklin County, Delaware County, Columbus,

Muskingum County OH, 1997-2001

Washoe County NV, 1993

Maricopa County AZ, 1991-1993

Professional and public presentations not listed elsewhere:

35. Overview of accessing and searching the NMDID database.” Forensic Technology Center of Excellence Webinar, 2020.
34. “Improving identification for missing American Indians.” ADVANCE UNM Lightning lounge, 2020.
33. “Forensic Anthropology for New Mexico State Police.” Presented at the Office of the Medical Investigator, 2019.
32. “NMDID: Development of a large-scale, whole body image database.” Presented with Shamsi Daneshvari, Biomedical Informatics Seminar Series, UNM Health Sciences Library and Informatics Center, 2019.
31. “Panel Discussion: Careers in Forensic Medicolegal Investigation.” Organized and Presented as part of the UNM colloquium series, 2018.
30. “Forensic Anthropology for Death Investigators.” Six hours training, presented twice at the Office of the Medical Investigator recertification for Field Deputy Medical Investigators, 2018.
29. “Forensic anthropology in death investigation.” Presented at the Office of the Medical Investigator Basic Death Investigator School, 2018.
28. “Dental morphology in pre- and post-contact Mexico.” Presented at the University of Adelaide Dental School, 2018.
27. “Dental morphological insights into Mexican Biohistory.” Presented at the University of Melbourne Dental School, 2018.

26. "Dental morphological characteristics in forensic anthropology and bioarchaeology." Presented in the UNM Health Sciences Department of Pathology Seminar Series (Grand Rounds), 2018.
25. "Skeletons in the closet: Why museums curate human remains." Presented at the American Museum of Natural History, 2017.
24. "Ethnicity and biology: case studies in Mexico and New Mexico." Presented at Wagner College, 2017.
23. "La morfología dental en antropología biológica." Presented with Cathy Willermet at Universidad Autónoma de México, Instituto de Investigaciones de Antropología, 2016.
22. "How does culture shape sub-ethnic biological variation among New Mexican Hispanics?" Presented at Central New Mexico Community College, 2015.
21. "Biohistory: tracing the biological consequences of conquest, politics, and trade." Presented at Central Michigan University, 2014.
20. "Efectos histórico-culturales sobre la microevolución en el México prehispánico." Presented with Catherine Willermet at the Universidad Autónoma de Yucatán, 2013.
19. "Forensic and other anthropological uses of dental morphology." Presented in the University of Washington Orthodontic Department Lecture Series, 2013.
18. "The Intersection of Anthropology and Orthodontics." Presented in the New York University Orthodontic Department Lecture Series, 2010.
17. "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.
16. "The Sociocultural & Biological Correlates of Ethnic Substructure among New Mexican Hispanics." Presented in the University of Tennessee Anthropology Visiting Lecture Series, 2010.
15. "Using a Biohistorical Approach to Trace Population Change in the US." Presented in the University of Tennessee Anthropology Visiting Lecture Series, 2010.
14. "Anthropological applications of orthodontic records." Presented at Nova Southeastern University Orthodontic Program, 2009.
13. "The anthropological value of dental morphology." Presented at the meetings of the New Mexico Dental Association, 2009.
12. "Forensic...Or not?!?" Presented as in-service education to staff of the Office of the Medical Investigator, New Mexico, 2009.
11. "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.
10. "What can you learn excavating historic cemeteries?" Presented to the Albuquerque Archaeological Society, 2007.
9. "African American biohistory: Tracing population change with teeth" Presented as part of the Ancestors lecture series, Maxwell Museum of Anthropology, UNM, 2006.
8. "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.

7. "Excavations in historic cemeteries" Presented as part of the Albuquerque Tricentennial Celebration, 2006.
6. "Every historic cemetery is different" Presented to the New Mexico Geneological Society, 2006.
5. "Bioarchaeological studies at an African American Cemetery" Presented to the Ohio Archaeological Society, Six Rivers Chapter, 2002.
4. "Mummies, skeletons, and what can be learned from them" Presented to the College of Wooster Sociology/Anthropology Club, 2002.
3. "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.
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 outreach:

- Doland G. 2020. Interview for New Mexico in Focus, December 17, 2020.
<https://www.newmexicopbs.org/productions/newmexicoinfocus/vaccines-broadband-access-mysterious-bird-deaths/>. Interview at 13 minutes in.
- Pannett R. Augmented reality offers a promise of incision-free autopsies. September 30, 2020.
<https://www.wsj.com/articles/augmented-reality-offers-a-promise-of-incision-free-autopsies-11601485158>
- Hayes P. OMI providing data to Johns Hopkins to help find treatment for COVID-19. April 16, 2020. <https://www.kob.com/albuquerque-news/nm-office-of-the-medical-investigator-providing-data-to-johns-hopkins-to-help-find-treatment-for-covid-19/5702734/?cat=500>.
- Jones R. NMDID aids in COVID-19 Research. April 16, 2020.
<http://hscnews.unm.edu/news/nmdid-aids-in-covid-19-research>
- "UNM researchers use advanced computing to study-COVID-19." April 16, 2020.
<http://carc.unm.edu/news--events/News/researchers-study-covid-19.html>
- King MB. "New medical investigator database website goes live: UNM database of deceased people a national first. February 18, 2020. <http://news.unm.edu/news/new-medical-investigator-database-website-goes-live>
- King MB, Carpenter S. "What the dead can tell us: database of the deceased offers researchers a new way to look at the dead." February 6, 2020.
<https://sciencenode.org/feature/Database%20of%20the%20deceased.php>
- Carpenter, S. "UNM anthropologist to unveil new database website." February 3, 2020. Center for Advanced Computing, 2020. <http://carc.unm.edu/research/anthropologist-unveils-database-website.html>
- Augenstein S. "CT scans database in New Mexico could be game changer." January 22, 2019. Interview for Forensic Magazine. <https://www.forensicmag.com/news/2019/01/ct-scans-database-new-mexico-could-be-game-changer>.
- Washington F. "UNM database first of its kind in the nation." January 18, 2019. Interview for KRQE. <https://www.krqe.com/top-stories/unm-database-first-of-its-kind-in-the>

nation_20190118153601/1709628664?fbclid=IwAR3vB5YrSvPBMOmSKLnSFF3QjM_DVsqz1mUxBKGfRF34AS4pPavOrAY7Ym8

King MB. "UNM database of deceased people a national first." Center for Advanced Research Computing News, 2018.

"Advance at UNM STEM faculty highlights."

https://www.youtube.com/watch?time_continue=4&v=ypWL2cWdPHc.

Torres O. September 2016. Daring to be Different. Interview for Albuquerque the Magazine.

Hilf A. Talking Bones. Fall 2016. Mirage Magazine 24-25.

Hilf A. Maxwell Laboratory of Human Osteology: Science at UNM. Interview for The Maxwell 46(1): 6.

Shone C. UNM researchers seek donations of human remains. March 14, 2016.

<http://www.kob.com/albuquerque-news/university-of-new-mexico-human-remains-donations-school-of-anthropology/4074291/#.VxbF7YSXj8s>

Hilf A. The dead still speak at UNM's Human Osteology Lab. March 10, 2016.

<http://news.unm.edu/news/the-dead-still-speak-at-unms-human-osteology-lab>

Wentworth, K. UNM anthropologist appointed to NAGPRA Review Committee. Interview for UNM Today, December 3, 2015. <http://news.unm.edu/news/unm-anthropologist-appointed-to-nagpra-review-committee>

"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.

2003-2012 Senior, Docent, Middle School and High School Tours of Laboratory of Human Osteology.

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.