

Curriculum Vitae

Keith Hunley

Department of Anthropology

MSC01-1040, Anthropology 1

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Education

- 1980 BS, Biology, Purdue University
- 1996 MA, University of Michigan, Anthropology
- 2002 PhD, University of Michigan, Anthropology

Postgraduate Training

- 2002 – 2004 Faculty Research Fellow. Department of Human Genetics. University of Michigan

Professional Appointments

- 2011 - Associate Professor. Department of Anthropology. University of New Mexico
- 2005 – 2011 Assistant Professor. Department of Anthropology. University of New Mexico
- 2004 – 2005 Visiting Assistant Professor. Department of Anthropology. University of New Mexico

Professional Recognition and Honors

- 2017. Recognition of contribution to assessment. College Assessment Review Committee
- 2016. Quality Matters Certification for Anthropology 150
- 2016. UNM Online Course Advisory Council's Best Practice Certification for Anthropology 150

- 2015. Invited Commentary. Proceedings of the National Academy of Sciences
- 2015. Invited speaker. Morrison Institute. Stanford University.
- 2015. Keynote speaker. American Association of Physical Anthropologists annual meeting. Symposium: Thinking anthropologically about genetics.
- 2013. Nominee. UNM Outstanding Online Teacher of the Year
- 2009. Invited Speaker. 200th anniversary of Charles Darwin's birth. Biology Department. University of New Mexico.
- 2007. Nominee. UNM Outstanding Teacher of the Year Award
- 2002. Roy A. Rappaport Teaching Award. Department of Anthropology. University of Michigan
- Michigan 1999 – 2001. Genome Sciences Training Fellowship. National Institutes of Health. University of Michigan

Scholarly Achievements

Citation indices: <https://scholar.google.com/citations?user=OjIQkBQAAAAJ&hl=en>

Articles in Refereed Journals (*corresponding and/or senior author)

- Healy, M, Hill D, Berwick M, Edgar H, Gross J, Hunley K*. "Social-Group Identity and Population Substructure in Admixed Populations in New Mexico and Latin America." PLOS ONE 12 (10): e0185503. 2017. doi:10.1371/journal.pone.0185503.
- Hay JL, Berwick M, Zielaskowski K, White K, Rodríguez VM, Robers E, Guest DD, Sussman A, Talamantes Y, Schwartz M, Greb J, Bigney J, Kaphingst K, Hunley K, Buller D. Implementing an Internet-delivered skin cancer genetic testing intervention to improve sun protection behavior in a diverse population. 6(4):e52. 2017. doi: 10.2196/resprot.7158.
- Rodriguez VM, Robers E, Zielakowski K, Hunley K, Kaphingst K, Guest D, Sussman A, White KM, Schwartz MR, Talamantes Y, Grebb J, Bigney J, Berwick M, & Hay JL. Translation and adaptation of skin cancer genomic risk education materials for

implementation in primary care. *J Community Genet.* 8(1): 53–63. 2017. doi: 10.1007/s12687-016-0287-z

- Hunley, K. L., Cabana, G. S. Beyond serial founder effects: the impact of admixture and localized gene flow on patterns of regional genetic diversity. *Human Biology.* 88(3): 2017
- Hunley, K., Gwin, K. & Liberman, B. A Reassessment of the Impact of European Contact on the Structure of Native American Genetic Diversity. *PLoS One* 11(8), e0161018. 2016.
- Hunley, K. L., Cabana, G. S. & Long, J. C. The apportionment of human diversity revisited. *Am. J. Phys. Anthropol.* 160, 561–569. 2016. doi: 10.1002/ajpa.22899
- Hunley K. Reassessment of global gene–language coevolution. *Proceedings of the National Academy of Sciences.* 112(7): 1919–1920. doi: 10.1073/pnas.1425000112. 2015
- Young BN, Rendón A, Rosas-Taraco A, Baker J, Healy M, Gross J, Long J, Burgos M, Hunley K*. The Effects of Socioeconomic Status, Clinical Factors, and Genetic Ancestry on Pulmonary Tuberculosis Disease in Northeastern Mexico. *PLoS ONE* 9(4): e94303. 2014. doi:10.1371/journal.pone.0094303
- Young BN, Burgos M, Handal AJ, Baker J, Rendón A, Rosas-Taraco A, Long J, Hunley K*. 2014. Social and clinical predictors of drug-resistant tuberculosis in a public hospital, Monterrey, Mexico. *Annals of Epidemiology.* 24(10):771–775. 2014.
- Hunley K, Bowern C, Healy M. Rejection of a serial founder effects model of genetic and linguistic coevolution. *Proceedings of the Royal Society B, Biological Sciences.* 279(1736): 2281–2288. 2012. DOI:10.1098/rspb.2011.2296.
- Bowern C, Epps P, Gray R, Hill J, Hunley K, McConvell P, Zentz J. Loans in the basic vocabulary of hunter-gatherer languages. *PLoS One* 6(9): e25195. 2011. DOI:10.1371/journal.pone.0025195.
- Hunley K, Healy M. The impact of founder effects, gene flow, and European admixture on Native American genetic diversity. *American Journal of Physical Anthropology.* *American Journal of Physical Anthropology.* 2011. 146(4): 530-538. 2011. DOI: 10.1002/ajpa.21506.

- Friedlaender J, Hunley K, Dunn M, Terrill A, Lindström E, Reesink G, Friedlaender F. Letter: Linguistics more robust than genetics. *Science*. 324(5926):464-465. 2009. DOI:10.1126/science.324_464c.
- Hunley K, Healy M, Long J. The global pattern of gene identity variation reveals a history of long-range migrations, bottlenecks, and local mate exchange: Implications for biological race. *American Journal of Physical Anthropology*. 139(1): 35-46. 2009. DOI:10.1002/ajpa.20932.
- Edgar H, Hunley K*. Reconciling race?: How biological anthropologists view human variation. *American Journal of Physical Anthropology*. 139(1): 1-4. 2009. DOI:10.1002/ajpa.20995.
- Hunley K, Dunn M, Lindström E, Reesink G, Terrill A, Healy M, Koki G, Friedlaender F, Friedlaender J. Genetic and linguistic coevolution in Northern Island Melanesia. *PLoS Genetics* 4(10):e1000239. 2008. DOI:10.1371/journal.pgen.1000239.
- Hunley K, Spence JE, Merriwether DA. The impact of lineal fissions on genetic structure in Native South America and implications for human evolution. *American Journal of Physical Anthropology*. 135:195-205. 2008. DOI:10.1002/ajpa.20720.
- Cabana G, Hunley K, Kaestle F. Population continuity or replacement?: A novel computer simulation approach and its application to the Numic expansion (Western Great Basin, USA). *American Journal of Physical Anthropology*. 135(4): 438-447. 2008. DOI:10.1002/ajpa.20764.
- Clark J, Dobson S, Anton S, Hawks J, Hunley K, Wolpoff M. Identifying artificially deformed crania. *International Journal of Osteoarchaeology*. 17:596-607. 2007. DOI:10.1002/oa.910.
- Hunley K, Cabana G, Merriwether DA, Long J. A formal test of linguistic and genetic coevolution in Native Central and South America. *American Journal of Physical Anthropology*. 132 (4): 622-631. 2007. DOI:10.1002/ajpa.20542.
- Cabana G, Merriwether DA, Hunley K, Demarchi DA. Is the genetic structure of Gran Chaco populations unique? Interregional perspectives on Native South American

mitochondrial DNA variation. *American Journal of Physical Anthropology* 131(1): 108-119. 2006. DOI:10.1002/ajpa.20410.

- Hunley K, Long J. Gene flow across linguistic boundaries in Native North Americans. *Proceedings of the National Academy of Sciences*. 102(5): 1312-7. 2005. DOI:10.1073/pnas.0409301102.
- Mulligan C, Hunley K, Cole S, Long J. Population genetics, history, and health patterns in Native Americans. *Annual Review of Genomics and Human Genetics*. 5:295-315. 2004. DOI:10.1146/annurev.genom.5.061903.175920.
- Wolpoff M, Hawks J, Frayer D, Hunley K. Modern human ancestry at the peripheries: A test of the Replacement Theory. *Science*. 291:293-297. 2001
- Hawks J, Hunley K, Lee S, Wolpoff M. 2000. Population bottlenecks and Pleistocene human evolution. *Molecular Biology and Evolution*. 17(1):2-22. 2000
- Hawks J, Oh S, Hunley K, Dobson S, Cabana G, Dayalu P, Wolpoff M. An Australasian test of the recent African origin theory using the WLH-50 calvarium. *Journal of Human Evolution*. 39: 1-22. 2000
- Mitani J, Hunley K, Murdoch E. Geographic variation in the calls of wild chimpanzees: A re-assessment. *American Journal of Primatology*. 47(2): 133-152. 1999

Peer-reviewed Articles in Edited Volumes

- Hunley K. Models of migration in human prehistory and their anthropological significance. In *Current developments in the anthropological study of past human migration*. G Cabana, J Clark (editors). Gainesville: University Press of Florida. 2011
- Hunley K, Dunn M, Lindström E, Reesink G, Terrill A, Norton H, Scheinfeldt L, Friedlaender F, Merriwether DA, Koki G, and Friedlaender J. Inferring prehistory from genetic, linguistic, and geographic variation. In *Genetics, Linguistics, and Culture History in the Southwest Pacific*. J Friedlaender (editor). Cambridge: Cambridge University Press. 2007

Invited or Refereed Abstracts and/or Presentations at Professional Meetings (since 2012)

- West F, Hunley K, Healy M, Mosley C, Cabana GS, Edgar H. Return of Genetic Ancestry Testing Results: An Academic-Setting Case Study. *Am J Phys Anthropol* TBA. 2017
- Hay J, Berwick M, Zielaskowski K, Meyer-White K, Rodríguez V, Robers E, Guest D, Sussman A, Talamantes Y, Schwartz M, Greb J, Bigney J, Kaphingst K, Hunley K, Buller D. Online skin cancer genetic testing in diverse primary care [Abstract]. Society of Behavioral Medicine. San Diego, CA, March 29 – April 1, 2017
- Hay JL, Berwick M, Zielaskowski K, White KM, Rodríguez VM, Robers E, Guest D, Sussman A, Talamantes Y, Schwartz M, Greb J, Bigney J, Kaphingst K, Hunley K, Buller D. Interest and uptake of MC1R testing in primary care [Abstract]. Society for Melanoma Research 2016 Congress, Boston, MA, November, 2016.
- White KM, Martinez M, Rodríguez VM, Robers E, Zielaskowski K, Guest D, Sussman A, Hunley K, Bigney J, Kaphingst K, Talamantes Y, Schwartz M, Greb J, Hay JL, Berwick M. MC1R variants in the New Mexico population [Abstract]. Society for Melanoma Research 2016 Congress, Boston, MA, November, 2016.
- Hay JL, Berwick M, Kaphingst K, Buller D, Hunley K, Bigney J, White KM, Zielaskowski K, Guest D, Sussman A, Rodríguez VM. Investigating MC1R testing and feedback in primary care: Maximizing personal utility and reach [Abstract]. Society for Melanoma Research 2015 Congress, San Francisco, CA, November, 2015.
- Hunley K, Cabana G, Long J. The Impact of Hierarchical and Gene Flow Processes on Patterns of Regional Genetic Diversity. *Am J Phys Anthropol* 56:Suppl. 2015
- Cabana GS, Hunley K. The Impact of Local Mate Exchange and Founder Effects on Global Patterns of Mitochondrial Genomic Variation. *Am J Phys Anthropol* 56:Suppl. 2015
- Mosley C, Healy M, Hunley K, and Edgar HJH. 2015. Exploring Hispanic Identity: Relationships among Socioeconomic Status, Genetic Ancestry, Skin Color, and Ethnicity in the Land of Enchantment. Society for Applied Anthropology, Pittsburgh, PA. 2014
- Mosley C, Healy M, Hunley K, Edgar HJH. Skin deep: is skin color linked to blood pressure in New Mexicans of Spanish-speaking descent? *Am J Hum Biol* 25:268. 2013

- Mosley C, Healy M, Hunley K, Edgar HJH. Self---reported ethnicity predicts allostatic load in New Mexicans of Spanish---speaking descent. Human Biology Association, Knoxville, Tennessee. 2013
- Young B, Long J, Gross J, Rosas---Taraco A, Rendon A, Hunley K. Genetic Admixture in Monterrey, Mexico: Evolutionary Implications for Tuberculosis Disease Risk. Human Behavior and Evolution Society. 2012
- Young B, Rendon A, Rosas---Taraco A, Handal A, Baker J, Long J, Burgos M, Hunley K. Education and marital status are protective against active tuberculosis in Monterrey, Mexico. American Journal of Physical Anthropology. Portland. 2012
- Healy M, Gross J, Berwick M, Hill D, Erdei E, Long J, Hunley K. Variability in genetic ancestry in New Mexican Hispanics: the product of a rich and ever---changing ethnic landscape. American Journal of Physical Anthropology. Portland. 2012

Research Funding

- Personalized genomic testing for melanoma: maximizing personal utility and reach. National Cancer Institute. National Institutes of Health. 1R01CA181241-01A1. Co-investigator (PIs: Jennifer Hay and Marianne Berwick). \$735,067. 2014 - 2017
- The cultural and biological significance of ethnic substructure in New Mexican Hispanics. National Science Foundation. BCS 0962825. PI: Keith Hunley. \$327,703. 2010 - 2015
- The relationship between genetic admixture and sociocultural history in New Mexico. UNM Research Allocation Committee. Discipline-specific Large Grant. PI: Keith Hunley. \$7,260. 2009
- Effects of genetic ancestry and socio---cultural factors on susceptibility to tuberculosis in Mexico. Wenner Gren. (PIs Bonnie Young and Keith Hunley). \$12,969. 2009.
- Dynamics of hunter-gatherer language change. National Science Foundation. Co-PI: Keith Hunley (PI: Claire Bowers, Yale University). \$723,133. 2008
- Symposium: Race Reconciled? How biological anthropologists view human biological variation. Funded by UNM Maxwell Museum, Departments of Anthropology and Biology, Office of Research. \$12,000. 2007

- Linguistic and genetic coevolution and implications for human evolution. UNM Research Allocation Committee. Discipline-specific Large Grant. PI: Keith Hunley. \$7,185. 2005
- Population stratification in New Mexican Hispanics and implications for medical and anthropological genetic research. UNM Cross Campus Collaboration in the Life Sciences. PI: Keith Hunley. \$24,214. 2005

Teaching

- Hunley, K. (2015), "Genetic and linguistic evolution and coevolution", in Rosenberg, N. and Nielsen, R. (eds), Human Population Genetics II, The Biomedical & Life Sciences Collection, Henry Stewart Talks Ltd, London (online at <http://hstalks.com/?t=BL1963892-Hunley>)
- Introduction to Anthropological Genetics. ANTH 364.
- Anthropological Genetics. ANTH 455/555. BIO 452
- Evolution and Human Emergence. ANTH 150
- Evolution and Human Emergence. ANTH 150 on-line (Certified by Quality Matters and UNM Online Course Advisory Council)
- Modern Human Origins & Prehistory. ANTH 450/550
- Race and human evolution ANTH 450/550
- Human Genetics. ANTH 555
- Population Genetics. ANTH/Biology 491/591
- Measuring and interpreting human variation. ANTH 550
- Computer Aided Inferences in Natural Science. ANTH 450/550

Guest Lectures, Seminars, Symposia, and Public Anthropology

- 2015. Morrison Institute. Stanford University. The structure of human genetic diversity: more evolution and less race
- 2014. Contributor. Maxwell Museum of Anthropology Exhibit. The Cultural and Biological Significance of Ethnic Substructure in New Mexicans of Spanish-speaking descent.

- 2014. Co-creator, Heritage New Mexico website. <http://heritagenm.unm.edu/>
- 2012. Genetic and Linguistic coevolution. UNM Department of Linguistics seminar.
- 2011. Admixture in New Mexicans of Spanish-speaking descent. UNM Division of Epidemiology and Biostatistics.
- 2009 Community Radio Series in Public Anthropology. UNM Alfonso Ortiz Center for Intercultural Studies.
- 2009 UNM Darwin Day Symposium: There are no races, there are only nested hierarchies.
- 2009 Population Genetic Structure and Admixture in New Mexican Hispanics. UNM Division of Epidemiology and Biostatistics.
- 2008 UNM Faculty Symposium sponsored by the Alfonso Ortiz Center for Intercultural Studies. The social and health-related implications of sociocultural and biological variation in New Mexicans of Hispanic descent.
- 2008 UNM Faculty Symposium sponsored by the Alfonso Ortiz Center for Intercultural Studies. The Social and Scientific Implications of Biological, Cultural, and Linguistic Variation in New Mexican Hispanics.
- 2007 UNM Symposium: Race Reconciled?: How biological anthropologists view human biological variation. Organized by K Hunley and H Edgar.
- 2007. Contributor. UNM Maxwell Museum of Anthropology Exhibit. Tools of the trade: How biological anthropology is done. May 25-November 3, 2007.
- 2007 Linguistic and Genetic Coevolution in Native America. Perspectives in Human Ecology Seminar. UNM Department of Anthropology.
- 2007 The global pattern of human genetic variation: no clines, no trees, and no races. UNM Program in Interdisciplinary Biological & Biomedical Science Seminar.
- 2007 Guest Lecturer for FLC-623: Genes, peoples, languages. UNM Freshmen Learning Communities.
- 2006 Linguistic and genetic coevolution in Native America. UNM Department of Linguistics,

- 2006 Is there a biological basis for human race? UNM Department of Anthropology Archaeology Seminar.
- 2005 Guest Lecturer for FLC-623: Genes, peoples, and languages. UNM Freshmen Learning Communities.

Service

- Associate Chair. Department of Anthropology. 2018. UNM
- Retention, Promotion & Tenure Review Committee. 2018. UNM College of Arts and Science
- Associate Editor. Human Biology 2015 - present
- Director. UNM Department of Anthropology Undergraduate Committee
- College Assessment Review Committee. UNM College of Arts and Science
- Search committee, interim Maxwell Museum Director. 2016. UNM
- Grant/manuscript reviews, including National Science Foundation, Science Magazine, Scientific Reports, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society of London B, American Journal of Physical Anthropology, PLoS One, Human Biology, Human Nature, Wenner-Gren Foundation
- Advisory Group member. UNM Department of Anthropology. 2015 - present
- Advisory council member. UNM Program in Interdisciplinary Biological and Biomedical Sciences. 2006-2008
- Local Arrangements committee. Human Biology Association Meetings. 2011. Albuquerque, NM
- Search committee. Evolutionary Anthropology faculty position. 2007. UNM
- Organizer. Evolutionary Anthropology Journal Club.