

Curriculum Vitae

Keith Hunley

Department of Anthropology
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University of New Mexico
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Educational History

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

Employment History

- Associate Professor 2011 – University of New Mexico
- Assistant Professor 2005 – 2011 University of New Mexico
- Visiting Assistant Professor 2004 – 2005 University of New Mexico
- Faculty Research Fellow 2002 – 2004 University of Michigan

Professional Recognition and Honors

- 2015. Invited speaker. Morrison Institute. Stanford University. The structure of human genetic diversity: more evolution and less race
- 2015. Keynote speaker. American Association of Physical Anthropologists annual meeting. Symposium: Thinking anthropologically about genetics.
- 2009. Invited Speaker. 200th anniversary of Charles Darwin's birth. Biology Department. University of New Mexico.
- 2002. Roy A. Rappaport Teaching Award. Department of Anthropology. University of Michigan
- Michigan 2000 – 2001. Genome Sciences Training Fellowship. National Institutes of Health. University of Michigan
- 1999 – 2000. Genome Sciences Training Fellowship. National Institutes of Health. University of Michigan

Scholarly Achievements

Articles in Refereed Journals

- Hunley K. Reassessment of global gene–language coevolution. *Proceedings of the National Academy of Sciences*. 112(7): 1919–1920. 2015. doi: 10.1073/pnas.1425000112
- Young BN, Rendón A, Rosas-Taraco A, Baker J, Healy M, et al. 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*. published online 1 February 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. DOI:10.1371. 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*. 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

Articles Appearing in Chapters 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

Other Writings

Book Reviews

- Hunley K, Gross J. *A Computational Approach to Statistical Arguments in Ecology and Evolution*. George Estabrook. New York: Cambridge University Press, *Journal of Anthropological Research*. 2013
- Hunley K. *The 10,000 Year Explosion: How Civilization Accelerated Human Evolution* by Gregory Cochran and Henry Harpending. New York: Basic Books. *Journal of Anthropological Research*. 2010

Invited or Refereed Abstracts and/or Presentations at Professional Meetings (since 2010)

- 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
- Young B, Rendon A, Rosas---Taraco A, Handal A, Baker J, Long J, Burgos M, Hunley K. Do Disease Legacies Impact Variation In Resistance? Genetic Ancestry and Socio--- Cultural Effects On Active Tuberculosis In Northeastern Mexico. *American Association of Anthropologists*. Montreal. 2011
- Hunley K. Genes and language in the Americas. *American Association of Physical Anthropologists*. Albuquerque. *American Journal of Physical Anthropology*. 141: S50. 2010 5
- Long J, Hunley K. New evidence for natural selection acting at the ALDH locus. *American Association of Physical Anthropologists*. Albuquerque. *American Journal of Physical Anthropology*. 141: S50. 2010
- Joyce S, Hunley K, Long J. Analysis of global gene identity reveals a history of serial founder effects, admixture between long---diverged Oceanic groups, and interbreeding with archaic humans. *American Association of Physical Anthropologists*. Albuquerque. *American Journal of Physical Anthropology*. 141: S50. 2010

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. 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
- Dynamics of hunter-gatherer language change. National Science Foundation. Co-PI: Keith Hunley (PI: Claire Bowern, 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