

Curriculum Vitae

Keith L. Hunley

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Education

- Doctor of Philosophy - Anthropology - August 2002
University of Michigan, Ann Arbor, MI
- Master of Arts - Anthropology - December, 1997
University of Michigan, Ann Arbor, MI
- Bachelor of Science - Biology - May, 1980
Purdue University, West Lafayette, IN

Publications:

- Clark JL, Dobson SD, Anton SC, Hawks J, Hunley KL, Wolpoff MH. (2007) Identifying Artificially Deformed Crania. *International Journal of Osteoarchaeology*. DOI: 10.1002/oa.910.
<http://www3.interscience.wiley.com/cgi-bin/jhome/5488>
- Hunley KL, Cabana GS, Merriwether DA, Long JC. (2007) A formal test of linguistic and genetic coevolution in Native Central and South America. *American Journal of Physical Anthropology*. 132 (4): 622-631.
www3.interscience.wiley.com/cgi-bin/jhome/110481861
- Hunley K, Dunn M, Lindström E, Reesink G, Terrill A, Norton H, Scheinfeldt L, Friedlaender F, Merriwether DA, Koki G, and Friedlaender J (2007). Inferring prehistory from genetic, linguistic, and geographic variation. In *Genetics, Linguistics, and Culture History in the Southwest Pacific*. J Friedlaender (ed). Cambridge. Cambridge University Press.
- Cabana GS, Merriwether DA, Hunley KL, Demarchi DA. (2006) Unique patterns of regional mitochondrial DNA variation among the Gran Chaco peoples of Argentina. *American Journal of Physical Anthropology* 131(1): 108-119.
www3.interscience.wiley.com/cgi-bin/jhome/110481861
- Hunley KL, Long JC. (2005) Gene Flow across Linguistic Boundaries in Native North Americans. *Proc Natl Acad Sci U S A* 102(5): 1312-7. PNAS.org

- Mulligan CJ, Hunley KL, Cole SM, Long JC (2004). Population genetics, history, and health patterns in Native Americans. *Annual Review of Genomics and Human Genetics*. 5:295- 315. arjournals.annualreviews.org/loi/genom?cookieSet=1
- Hunley K. 2002. *The Anthropological Utility of Genetic Data in Small-Scale Populations: Migration Rates and Patterns among the Yanomamo*. PhD Thesis. Department of Anthropology. University of Michigan, Ann Arbor
- Wolpoff M, J Hawks, D Frayer, K Hunley 2001. Modern Human Ancestry at the Peripheries: A test of the Replacement Theory. *Science*. 291:293-297. www.sciencemag.org/
- Hawks J, K Hunley, S Lee, M Wolpoff. 2000. Population Bottlenecks and Pleistocene Human Evolution. *Molecular Biology and Evolution*. 17(1):2-22. www.molbiol.org/
- Hawks J, S Oh, K Hunley, S Dobson, G Cabana, P Dayalu, M Wolpoff. 2000. An Australasian test of the recent African origin theory using the WLH-50 calvarium. *Journal of Human Evolution*. 39: 1-22. www.academicpress.com/jhevol
- Mitani J, K Hunley, E Murdoch. 1999. Geographic variation in the calls of wild chimpanzees: A re-assessment. *American Journal of Primatology*. 47(2): 133-152. www.interscience.wiley.com/jpages/0275-2565/

Submitted manuscripts

- Hunley K, JE Spence, DA Merriwether. (In review). The impact of lineal fissions on genetic structure in Native South America and implications for human evolution. Submitted to *American Journal of Physical Anthropology*, October 2006
- Hunley K, M Healy, Dunn M, Lindström E, Reesink G, Terrill A, Norton H, Scheinfeldt L, Friedlaender F, Merriwether DA, Koki G, and Friedlaender J. Genetic and Linguistic Variation are Patterned Differently in Northern Island Melanesia

Manuscripts in preparation

- Hunley K, M Healy. The distribution of global mtDNA d-loop variation and anthropological implications.
- Hunley K, JC Long, RA Kittles. Analysis of DNA sequences under unequal evolutionary rates.
- Cabana GS, K Hunley, R Kaestle. Migration or microevolution: the Numic expansion revisited.
- Hunley K, M Rogahn, DA Merriwether. Microevolution in Amazonian: Inferring evolutionary history by comparing patterns of linguistic and genetic variation.
- Hunley, K, H Edgar. Race reconciled: How biological anthropologists view human variation.

Published abstracts

- 2007 **American Association of Physical Anthropologists** annual meetings, Philadelphia, PA. M Healy, K Hunley. The impact of geography, ecology, and language on Native American genetic structure.

- 2007 **American Association of Physical Anthropologists** annual meetings, Philadelphia, PA. J Spence, K Hunley, DA Merriwether. Genetic structure and implications for human biological and cultural evolution: a case study of the Yanomamo.
- 2006 **American Society of Human Genetics annual meetings**. New Orleans. DNA Sequence and Natural Selection at Human ALDH. J Long, C Lewis, J Li1, R Malhi, K Hunley.
- 2006 **American Association of Physical Anthropologists** annual meetings, Anchorage, AK . KL Hunley, DA Merriwether, GS Cabana, JC Long Linguistic and Genetic Correspondence in Native Central and South America. 2006 AJPA Supplement
- 2005 **American Association of Physical Anthropologists** annual meetings, Milwaukee, WI. K Hunley, JC Long. Rejection of isolation by distance for human gene geography and suggested alternatives. 2005 AJPA Supplement.
- 2005 **American Association of Physical Anthropologists** annual meetings, Milwaukee, WI. Predictions of isolation by distance and alternatives for human gene geography. JC Long, K Hunley. 2005 AJPA Supplement.
- 2005 **34^a Congreso Argentino de Genética** (Trelew, 12 al 14 de Septiembre de 2005) y **VII Jornadas Nacionales de Antropología Biológica** (Córdoba, 26 al 30 de Septiembre de 2005). Demarchi DA, Cabana GS, Hunley KL, Merriwether DA. Linajes mitocondriales en poblaciones del Chaco argentino: Patrones únicos de variación regional. Presentación en simposio en los eventos.
- 2004 **American Association of Physical Anthropologists** annual meetings, Tampa, Fl. K Hunley, JC Long. Does Greenberg's linguistic classification predict patterns of New World genetic diversity? 2004 AJPA Supplement
- 2003 **American Association of Physical Anthropologists** annual meetings, Tempe, AZ. RS Malhi, K Hunley, JC Long. Tests for selection on ALDH2 in a Southeast Asian population. 2003 AJPA Supplement.
- 2003 **American Association of Physical Anthropologists** annual meetings, Tempe, AZ. JC Long, K Hunley*, RA Kittles. Analysis of DNA sequences under unequal evolutionary rates. *Prepared and presented by K Hunley. 2003 AJPA Supplement.
- 2003 **American Society of Human Genetics** annual meetings. Los Angeles. JC Long, KL Hunley. Analysis of DNA sequences and repeat lengths under unequal evolutionary rates. AJHG Supplement.
- 2002 **American Association of Physical Anthropologists** annual meetings, Buffalo, NY. K Hunley, DA Merriwether. The Anthropological Utility of Genetic Data in Small-Scale Populations: Migration Rates and Patterns among the Yanomamo. 2002 AJPA Supplement.
- 2002 **Southern Illinois University Visiting Scholar's Conference: Biomolecular Archaeology: Genetic Approaches to Reconstructing the Past**, Carbondale, Illinois. G Cabana, K Hunley, F Kaestle. Population movement or genetic drift and gene flow?
- 2001 **American Association of Physical Anthropologists** annual meetings. Kansas City, MO. K Hunley, G Cabana. The Genus *Homo*: One or multiple species? 2001 AJPA Supplement.
- 2000 **5th International Ancient DNA conference**. Manchester, UK. G Cabana, K Hunley, R Kaestle. Modeling the effects of random genetic drift and migration on the genetic diversity of ancient populations.

- 2000 **American Association of Physical Anthropologists** annual meetings. San Antonio, TX. K Hunley and DA Merriwether. Reconstructing the Past: Population Structure among the Yanomamo. 2000 AJPA Supplement.
- 1999 **American Association of Physical Anthropologists** annual meetings. Columbus, OH. MH Wolpoff, J Hawks, K Hunley, S Dobson, G Cabana, P Dayalu. An Australian test of the Recent African Origin Theory using the WLH-50 Calvarium. 1999 AJPA Supplement.
- 1998 **Paleoanthropology Society** annual meetings. K Hunley. Seattle, WA. Vertebral canal size and function: a comparison of extant and fossil hominoids. www.paleoanthro.org/pdfs/1998abst.pdf.
- 1998 **American Association of Physical Anthropologists** annual meetings. Salt Lake City, UT. C Ahlstrom, J Hawks, K Hunley, S Oh. The application of nested cladistics to investigate population structure in chimpanzees. 1998 AJPA Supplement.
- 1998 **Human Biology Association** annual meetings. Salt Lake City, UT. K Hunley, DA Merriwether. The effect of fossil age on the estimation of time to a common ancestor. 1998 Human Biology Supplement.

Grants and awards

- UNM RAC Discipline-Specific Large Grant - Linguistic and genetic coevolution and implications for human evolution. Amount awarded: \$7185
- Cross Campus Collaboration in the Life Sciences. Population stratification in New Mexican Hispanics and implications for medical and anthropological genetic research. Amount awarded: \$24,214
- 2002 - 1st Annual Roy A. Rappaport GSI Teaching Award, Department of Anthropology, University of Michigan
- 2002 Dissertation Writing Grant, Rackham Graduate School, University of Michigan
- 2002 Thesis Research Block Grant, Department of Anthropology, University of Michigan
- 2000 - 2001 National Institute of Health (NIH) Genome Sciences Training Program Fellowship
- 1999 - 2000 NIH Genome Sciences Training Program Fellowship
- 1999 - Spring/Summer Research Grant, Rackham Graduate School, University of Michigan

Teaching experience

2004 - present: Visiting Assistant Professor - Courses taught include:

- Measuring and Interpreting Human Variation – Anthropology 450/550
- Modern Human Origins – Anthropology 450/550
- Human Molecular and Evolutionary Genetics – Anthropology 455/555
- Evolution and Human Emergence – Anthropology 150
- Introductory Population Genetics – Anthropology 450/550
- Computer Aided Inferences in Natural Science – Anthropology 450/550

Spring 2000 & Spring 2001: Instructor, University of Michigan

- Biological Anthropology 297 - The Evolution of Modern Humans

1994 - 2002: Graduate Student Instructor - Courses taught include:

- Biological Anthropology 452 - Population Genetics - D. A. Merriwether
- Biological Anthropology 365 - Human Evolution - M. H. Wolpoff
- Biological Anthropology 161 - Introduction to Biological Anthropology

Work history

2005 - present: Department of Anthropology, University of New Mexico, Albuquerque, NM, USA

- Assistant Professor, Biological Anthropology

2004 – 2005: Department of Anthropology, University of New Mexico, Albuquerque, NM, USA

- Visiting Assistant Professor, Biological Anthropology

2002 - 2004: Department of Human Genetics, University of Michigan, Ann Arbor, MI, USA

Faculty Research Fellow for Jeffrey C. Long, Professor of Human Genetics. Research Projects include:

- Testing the fit of models of population structure to DNA sequences under unequal evolutionary rates.
- Development of tests of natural selection under complex population histories.

1995 – 2001: Graduate Student Instructor, University of Michigan, Ann Arbor, MI