

# Alan Ray Rogers

April 1, 2021

## Address

## Phone, Email

Dept. of Anthropology (801) 581-5529 office  
University of Utah (801) 581-6252 FAX  
Salt Lake City, UT 84112 rogers@anthro.utah.edu

## Education

1974 B.A. Dept. of Anthropology, University of Texas at Austin.  
1978 M.S. Dept. of Anthropology, University of New Mexico.  
1982 Ph.D. Dept. of Anthropology, University of New Mexico.

## Areas of Specialization

Population genetics; evolutionary ecology

## Positions and honors

1/21- Recommender, PCI Mathematical and Computational Biology  
2/20- Recommender, PCI Evolutionary Biology  
3/16-12/20 Scientific Advisory Board, Max Planck Institute for Evolutionary Anthropology.  
7/94- Professor, Dept. of Anthropology, University of Utah.  
4/98- Adjunct Professor, Dept. of Biology, University of Utah.  
3/08-4/10 Committee on the Earth System Context for Hominin Evolution, National Research Council of the National Academies.  
10/96-5/98 Associate Editor, *Molecular Biology and Evolution*  
8/96-7/97 Research Centre, King's College, Cambridge  
7/94-06 Adjunct Associate Professor, Dept. of Human Genetics, University of Utah.  
7/91-6/94 Associate Professor, Dept. of Anthropology, University of Utah.  
1991 Superior Research Award (Junior Category), College of Social and Behavioral Science, University of Utah.  
7/88-6/91 Assistant Professor, Dept. of Anthropology, University of Utah.  
8/85-6/88 Research Assistant Professor, Dept. of Anthropology, University of Pittsburgh.  
9/83-8/85 Assistant Professor, Dept. of Anthropology, SUNY-Albany

## Publications

- [1] Jeremy S. Morris, Nala Rogers, Alan R. Rogers, and David R. Carrier. Sexual dimorphism in skeletal shape in voles (*Arvicolinae*): Disparate selection on male bodies and female heads. *Journal of Mammalogy*, 2020.
- [2] Alan R. Rogers. The deep history of human populations. *Newsletter of the Center for High-Performance Computing, University of Utah*, Spring, 2020.
- [3] Alan R. Rogers, Nathan S. Harris, and Alan A. Achenbach. Neanderthal-Denisovan ancestors interbred with a distantly-related hominin. *Science Advances*, 6(8):eaay5483, 2020.
- [4] Alan R. Rogers. Legofit: Estimating population history from genetic data. *BMC Bioinformatics*, 20: 526, 2019.
- [5] Alan R. Rogers. Henry C. Harpending, 1944–2016. In *Biographical Memoirs*. National Academy of Sciences, USA, 2018. <http://www.nasonline.org/publications/biographical-memoirs/memoir-pdfs/harpending-henry.pdf>.
- [6] Alan R. Rogers, Ryan J. Bohlender, and Chad D. Huff. Reply to Mafessoni and Prüfer: Inferences with and without singleton site patterns. *Proceedings of the National Academy of Sciences, USA*, 114(48):E10258–E10260, 2017.
- [7] Alan R. Rogers, Ryan J. Bohlender, and Chad D. Huff. Early history of Neanderthals and Denisovans. *Proceedings of the National Academy of Sciences, USA*, 114(37):9859–9863, 2017.
- [8] Hao Hu, Nayia Petousi, Gustavo Glusman, Yao Yu, Ryan Bohlender, Tsewang Tashi, Jonathan M Downie, Jared C. Roach, Amy M. Cole, Felipe R. Lorenzo, Alan R. Rogers, Mary E. Brunkow, Gianpiero Cavalleri, Leroy Hood, Sama M. Alpaty, Josef T. Prchal, Lynn B. Jorde, Peter A. Robbins, Tatum S. Simonson, and Chad D Huff. Evolutionary history of Tibetans inferred from whole-genome sequencing. *PLoS Genetics*, 13(4):e1006675, 2017.
- [9] Wilfred Wu, David J. Witherspoon, Alison Fraser, Erin A. S. Clark, Alan Rogers, Gregory J. Stoddard, Tracy A. Manuck, Karin Chen, M. Sean Esplin, Ken R. Smith, Michael W. Varner, and Lynn B. Jorde. The heritability of gestational age in a two-million member cohort: Implications for spontaneous preterm birth. *Human Genetics*, 134(7):803–808, 2015. ISSN 0340-6717.
- [10] Alan R. Rogers and Ryan J. Bohlender. Bias in estimators of archaic admixture. *Theoretical Population Biology*, 100:63–78, March 2015. ISSN 0040-5809.
- [11] Alan R. Rogers. How population growth affects linkage disequilibrium. *Genetics*, 197(4):1329–1341, August 2014.
- [12] Alan R. Rogers. The molecular clock. In Heinrich D. Holland and Karl K. Turekian, editors, *Treatise on Geochemistry*, volume 14, pages 55–61. Elsevier, 2nd edition, 2014.
- [13] Jack M. Broughton, R. Kelly Beck, Joan B. Coltrain, Dennis H. O’Rourke, and Alan R. Rogers. A late Holocene population bottleneck in California Tule elk (*Cervus elaphus nannodes*): Provisional support from ancient DNA. *Journal of Archaeological Method and Theory*, 20(3):495–524, Sept 2013.

- [14] Alan R. Rogers. Genetic relatedness to sisters' children has been underestimated. *Proceedings of the Royal Society of London, Series B*, 280, 2012.
- [15] Alan R. Rogers. *The Evidence for Evolution*. University of Chicago Press, 2011.
- [16] NRC Committee on the Earth Systems Context for Hominin Evolution. *Understanding Climate's Influence on Human Evolution*. The National Academies Press, Washington, D. C., 2010.
- [17] Chad D. Huff, Henry C. Harpending, and Alan R. Rogers. Detecting positive selection from genome scans of linkage disequilibrium. *BMC Genomics*, 11(1):8, 2010.
- [18] Chad D. Huff, Jinchuan Xing, Alan R. Rogers, David Witherspoon, and Lynn B. Jorde. Mobile elements reveal small population size in the ancient ancestors of *Homo sapiens*. *Proceedings of the National Academy of Sciences, USA*, 107(5):2147–2152, 2010.
- [19] Alan R. Rogers and Chad Huff. Linkage disequilibrium between loci of unknown phase. *Genetics*, 182(3):839–844, July 2009.
- [20] Elizabeth Eloyce Marchani, Jinchuan Xing, David J. Witherspoon, Lynn B. Jorde, and Alan R. Rogers. Estimating the age of retrotransposon subfamilies using maximum likelihood. *Genomics*, 94(1):78–82, 2009.
- [21] Alan R. Rogers, Stephen Wooding, Chad D. Huff, Mark A. Batzer, and Lynn B. Jorde. Ancestral alleles and population origins: Inferences depend on mutation rate. *Molecular Biology and Evolution*, 24:990–997, 2007.
- [22] EE Marchani, AR Rogers, and DH O'Rourke. The Thule migration: Rejecting population histories using computer simulation. *American Journal of Physical Anthropology*, 134(2):281–284, 2007.
- [23] David J. Witherspoon, Stephen Wooding, Alan R. Rogers, Elizabeth E. Marchani, W. Scott Watkins, Mark A. Batzer, and Lynn B. Jorde. Genetic similarities within and between populations. *Genetics*, 176:351–359, 2007.
- [24] David J. Witherspoon, E. E. Marchani, W. Scott Watkins, C. T. Ostler, Stephen P. Wooding, B. A. Anders, J. D. Fowlkes, S. Boissinot, A. V. Furano, D. A. Ray, Alan R. Rogers, Mark A. Batzer, and Lynn B. Jorde. Human population genetic structure and diversity inferred from polymorphic L1 (LINE-1) and *Alu* insertions. *Human Heredity*, 62(1):30–46, July 2006.
- [25] Vinayak Eswaran, Henry Harpending, and Alan R. Rogers. Genomics refutes an exclusively African origin of humans. *Journal of Human Evolution*, 49:1–18, 2005.
- [26] Dale J. Hedges, Richard Cordaux, Jinchuan Xing, David J. Witherspoon, Alan R. Rogers, Lynn B. Jorde, and Mark A. Batzer. Modeling the amplification dynamics of human *Alu* retrotransposons. *PLoS Biology*, 1(4):0333–0340, 2005.
- [27] Alan R. Rogers, David Iltis, and Stephen Wooding. Genetic variation at the MC1R locus and the time since loss of human body hair. *Current Anthropology*, 45(1):105–108, February 2004.
- [28] David L. Reed, Vincent S. Smith, Shaless L. Hammond, Alan R. Rogers, and Dale H. Clayton. Genetic analysis of lice supports direct contact between modern and archaic humans. *PLoS Biology*, 2(11):e340–e352, 2004.

- [29] Andrew Ugan, Jason Bright, and Alan Rogers. When is technology worth the trouble? *Journal of Archaeological Science*, 30(10):1315–1329, 2003.
- [30] W. S. Watkins, A. R. Rogers, C. T. Ostler, S. Wooding, M. J. Bamshad, A-M. E. Brassington, M. L. Carroll, S. V. Nguyen, J. A. Walker, B. V. Prasad, P. G. Reddy, P. K. Das, M. A. Batzer, and L. B. Jorde. Genetic variation in world populations: Inferences from 100 *Alu* insertion polymorphisms. *Genome Research*, 13(7):1607–1618, 2003.
- [31] Alan R. Rogers. Economics and the evolution of life histories. *Proceedings of the National Academy of Sciences, USA*, 100:9114–9115, 2003.
- [32] Stephen Wooding and Alan R. Rogers. The matrix coalescent and an application to human SNPs. *Genetics*, 161:1641–1650, 2002.
- [33] G Marth, G Schuler, R Yeh, R Davenport, R Agarwala, D Church, S Wheelan, J Baker, M Ward, M Kholodov, L Phan, E Czaparka, J Murvai, D Cutler, S Wooding, A Rogers, A Chakravarti, HC Harpending, PY Kwok, and ST Sherry. Sequence variations in the public human genome data reflect a bottlenecked population history. *Proceedings of the National Academy of Sciences, USA*, 100(1):376–381, Jan 2002.
- [34] Alan R. Rogers and Jack M. Broughton. Selective transport of animal parts by ancient hunters: A new statistical method and an application to the Emeryville Shellmound fauna. *Journal of Archaeological Science*, 28:763–773, April 2001.
- [35] Alan R. Rogers. Order emerging from chaos in human evolutionary genetics. *Proceedings of the National Academy of Sciences, USA*, 98:779–780, 2001.
- [36] W. S. Watkins, C. E. Ricker, M. J. Bamshad, M. L. Carroll, S. V. Nguyen, M. A. Batzer, H. C. Harpending, A. R. Rogers, and L. B. Jorde. Patterns of ancestral human diversity: An analysis of *Alu*-insertion and restriction-site polymorphisms. *American Journal of Human Genetics*, 68:738–752, 2001.
- [37] Alan R. Rogers. Game theory evolving: A problem-centered introduction to modeling and strategic behavior (book review). *Evolution and Human Behavior*, 22(4):291–293, 2001.
- [38] Alan R. Rogers. Analysis of bone counts by maximum likelihood. *Journal of Archaeological Science*, 27(2):111–125, 2000.
- [39] Alan R. Rogers. On the value of soft bones in faunal analysis. *Journal of Archaeological Science*, 27(7):635–639, 2000.
- [40] Alan R. Rogers. On equifinality in faunal analysis. *American Antiquity*, 65(4):709–723, 2000.
- [41] Stephen Wooding and Alan R. Rogers. A Pleistocene population X-plosion? *Human Biology*, 72: 693–695, 2000.
- [42] Henry C. Harpending and Alan R. Rogers. Genetic perspectives on human origins and differentiation. *Annual Review of Genomics and Human Genetics*, 1:361–385, 2000.
- [43] Alan R. Rogers. Comment on “group nepotism and human kinship”. *Current Anthropology*, 41(5): 802, 2000.

- [44] Alan R. Rogers. Deriving equations for relatedness. *Human Nature*, 9(3):256–257, 1998. An appendix in a paper by Eric Smith.
- [45] Henry C. Harpending, Mark A. Batzer, Michael Gurven, Lynn B. Jorde, Alan R. Rogers, and Stephen T. Sherry. Genetic traces of ancient demography. *Proceedings of the National Academy of Sciences, USA*, 95:1961–1967, 1998.
- [46] Lynn B Jorde, Michael Bamshad, and Alan R. Rogers. Using mitochondrial and nuclear DNA markers to reconstruct human evolution. *BioEssays*, 20(2):126–136, 1998.
- [47] M. J. Bamshad, W. S. Watkins, Rogers Alan R., Henry C. Harpending, Himla Soodyall, J. Kere, A. E. Fraley, P. Krakowiak, S. Sung, and Lynn B. Jorde. DNA variation and the evolution of modern humans. *American Journal of Human Biology*, 9(1):103, 1997.
- [48] Alan R. Rogers. Population structure and modern human origins. In Peter J. Donnelly and Simon Tavaré, editors, *Progress in Population Genetics and Human Evolution*, pages 55–79. Springer-Verlag, New York, 1997.
- [49] Alan R. Rogers and Elizabeth A. Cashadan. Phylogenies and cultural evolution. *Human Behavior and Evolution*, 18:349–351, 1997.
- [50] Alan R. Rogers. Evolution and human choice over time. In G. Bock and G. Cardew, editors, *Characterizing Human Psychological Adaptations*, number 208 in CIBA Foundation Symposia, pages 231–252. John Wiley & Sons, Chichester, UK, 1997.
- [51] Lynn B. Jorde, Alan R. Rogers, Michael Bamshad, W. Scott Watkins, Patrycia Krakowiak, Sandy Sung, Juha Kere, and Henry C. Harpending. Microsatellite diversity and the demographic history of modern humans. *Proceedings of the National Academy of Sciences, USA*, 94:3100–3103, April 1997.
- [52] Elizabeth A. Cashdan and Alan R. Rogers. Review of *Human Nature: A Critical Reader*. *Evolution and Human Behavior*, 18:279–283, 1997.
- [53] Alan R. Rogers and Elizabeth A. Cashdan. The phylogenetic approach to comparing human populations. *Evolution and Human Behavior*, 18:353–358, 1997.
- [54] Elisabeth J. Manderscheid and Alan R. Rogers. Genetic admixture in the late Pleistocene. *American Journal of Physical Anthropology*, 100(1):1–5, 1996.
- [55] Alan R. Rogers, Alexander E. Fraley, Michael J. Bamshad, W. Scott Watkins, and Lynn B. Jorde. Mitochondrial mismatch analysis is insensitive to the mutational process. *Molecular Biology and Evolution*, 13(7):895–902, 1996.
- [56] Alan R. Rogers and Lynn B. Jorde. Ascertainment bias in estimates of average heterozygosity. *American Journal of Human Genetics*, 58(5):1033–1041, 1996.
- [57] Steven C. Josephson, Kenneth E. Juell, and Alan R. Rogers. Estimating sexual dimorphism by method-of-moments. *American Journal of Physical Anthropology*, 100:191–206, 1996.
- [58] Alan R. Rogers. Genetic evidence for a Pleistocene population explosion. *Evolution*, 49(4):608–615, August 1995.

- [59] Alan R. Rogers and Lynn B. Jorde. Genetic evidence on modern human origins. *Human Biology*, 67 (1):1–36, February 1995.
- [60] Alan R. Rogers. How much can fossils tell us about regional continuity? *Current Anthropology*, 36 (4):674–676, Oct 1995.
- [61] Lynn B. Jorde, M. J. Bamshad, W. S. Watkins, R. Zenger, A. E. Fraley, P. A. Krakowiak, K. D. Carpenter, H. Soodyall, T. Jenkins, and Alan R. Rogers. Origins and affinities of modern humans: A comparison of mitochondrial and nuclear genetic data. *American Journal of Human Genetics*, 57: 523–538, Sept 1995.
- [62] Kristen Hawkes, Alan R. Rogers, and Eric L. Charnov. The male’s dilemma: Increased offspring production is more paternity to steal. *Evolutionary Ecology*, 9:662–677, 1995.
- [63] Alan R. Rogers. Evolution of time preference by natural selection. *The American Economic Review*, 84(3):460–481, June 1994.
- [64] E. O’Brien, R. A. Kerber, L. B. Jorde, and Alan R. Rogers. Founder effect: Assessment of variation in genetic contributions among founders. *Human Biology*, 66(2):185, 1994.
- [65] Elisabeth J. Manderscheid, James A. Brannan, and Alan R. Rogers. Is migration kin structured? *Human Biology*, 66(1):49–57, February 1994.
- [66] Elizabeth O’Brien, Alan Rogers, Judy Beesley, and Lynn B. Jorde. Genetic structure of the Utah Mormons: A comparison of results based on DNA, blood groups, migration matrices, isonymy, and pedigrees. *Human Biology*, 66(5):743–759, 1994.
- [67] E. O’Brien, R. A. Kerber, A. R. Rogers, and L. B. Jorde. Founder effect: An assessment of variation in genetic contributions among founders. *Human Biology*, 66(2):185–204, 1994.
- [68] Stephen Sherry, Alan R. Rogers, Henry C. Harpending, Himla Soodyall, Trefor Jenkins, and Mark Stoneking. Mismatch distributions of mtDNA reveal recent human population expansions. *Human Biology*, 66(5):761–775, Oct 1994.
- [69] Alan R. Rogers. Review of “The Evolution of Life Histories,” by Stephen C. Stearns, and “The Evolution of Life Histories,” by Derek A. Roff. *Human Biology*, 66(1):355–356, 1994.
- [70] Alan R. Rogers. For love or money: The evolution of reproductive and material motivations. In R. I. M. Dunbar, editor, *Human Reproductive Decisions: Biological and Biosocial Perspectives*, pages 76–95. Macmillan, Basingstoke, 1994.
- [71] L. B. Jorde, W. S. Watkins, M. J. Bamshad, R. Zenger, A. Fraley, A. R. Rogers, and T. Jenkins. Worldwide genetic variation in tetranucleotide repeat polymorphisms, restriction site polymorphisms, and mitochondrial DNA sequence. *American Journal of Human Genetics*, (suppl.) 55:A154, 1994.
- [72] Alan R. Rogers. Why menopause? *Evolutionary Ecology*, 7(4):406–420, July 1993.
- [73] Lynn B. Jorde, Elizabeth O’Brien, and Alan R. Rogers. Genetic evolution in the Utah Mormons: A comparison of blood group and DNA results. *American Journal of Human Biology*, x:x–x, 1993. Abstract.

- [74] Henry C. Harpending, Stephen T. Sherry, Alan R. Rogers, and Mark Stoneking. The genetic structure of ancient human populations. *Current Anthropology*, 34:483–496, 1993.
- [75] Alan R. Rogers and Henry C. Harpending. Population growth makes waves in the distribution of pairwise genetic differences. *Molecular Biology and Evolution*, 9:552–569, 1992.
- [76] Alan R. Rogers. Resources and population dynamics. In Eric Smith and Bruce Winterhalder, editors, *Evolutionary Ecology and Human Behavior*, chapter 12, pages 375–402. Aldine de Gruyter, Hawthorne, NY, 1992.
- [77] Alan R. Rogers and Arindam Mukherjee. Quantitative genetics of sexual dimorphism in human body size. *Evolution*, 46:226–234, 1992.
- [78] Alan R. Rogers. Error introduced by the infinite sites model. *Molecular Biology and Evolution*, 9: 1181–1184, 1992.
- [79] Alan R. Rogers. Conserving resources for children. *Human Nature*, 2:73–82, 1991.
- [80] Alan R. Rogers. Doubts about isonymy. *Human Biology*, 63:663–668, 1991.
- [81] E. O’Brien, R. A. Kerber, A. R. Rogers, and L. B. Jorde. Founder effect: An assessment of variation in genetic contributions among founders. *American Journal of Physical Anthropology*, 84 (suppl): 138, 1991. Abstract.
- [82] Alan R. Rogers. Group selection by selective emigration: The effects of migration and kin structure. *American Naturalist*, 135:398–413, 1990.
- [83] Alan R. Rogers. The evolutionary economics of human reproduction. *Ethology and Sociobiology*, 11:479–495, 1990.
- [84] Henry C. Harpending and Alan R. Rogers. Fitness in stratified societies. *Ethology and Sociobiology*, 11:497–509, 1990.
- [85] Alan R. Rogers. Resource partitioning and the stability of population dynamics: A reply to Łomnicki and Sedziwy. *Journal of Theoretical Biology*, 138:545–549, 1989.
- [86] Alan R. Rogers. Review of “Evolution Through Group Selection,” by V.C. Wynne-Edwards. *Journal of Social and Biological Structures*, 1988.
- [87] Alan R. Rogers. Review of “Sexual Selection: Testing the Alternatives”, edited by J.W. Bradbury and M.B. Andersson. *American Journal of Primatology*, 19(2):131–132, 1988.
- [88] Alan R. Rogers. Review of “Beyond the Gene: Cytoplasmic Inheritance and the Struggle for Authority in Genetics”, by Jan Sapp. *Human Biology*, 60:957–958, 1988.
- [89] Alan R. Rogers. Review of “Human Mating Patterns,” edited by C. G. N. Mascie-Taylor and A. J. Boyce. *American Journal of Physical Anthropology*, 81(4):580–580, 1990.
- [90] Alan R. Rogers. Three components of genetic drift in subdivided populations. *American Journal of Physical Anthropology*, 77:435–449, 1988.

- [91] Alan R. Rogers and Aldur W. Eriksson. Statistical analysis of the migration component of genetic drift. *American Journal of Physical Anthropology*, 77:451–457, 1988.
- [92] Alan R. Rogers. Does biology constrain culture? *American Anthropologist*, 90(4):819–831, December 1988.
- [93] Alan R. Rogers. A model of kin-structured migration. *Evolution*, 41:417–426, 1987.
- [94] Henry C. Harpending and Alan R. Rogers. On Wright’s mechanism for intergroup selection. *Journal of Theoretical Biology*, 127:51–61, 1987.
- [95] Henry C. Harpending, Alan R. Rogers, and Patricia Draper. Human sociobiology. *Yearbook of Physical Anthropology*, 30:137–150, 1987.
- [96] Alan R. Rogers and Lynn B. Jorde. The effect of non-random migration on genetic differences between populations. *Annals of Human Genetics*, 51:169–176, 1987.
- [97] Alan R. Rogers. Correlations between relatives in small populations. *American Journal of Physical Anthropology*, 71:377–389, 1986.
- [98] Alan R. Rogers. Population dynamics under exploitation competition. *Journal of Theoretical Biology*, 119:363–368, 1986.
- [99] Alan R. Rogers and Henry C. Harpending. Migration and genetic drift in human populations. *Evolution*, 40(6):1312–1327, 1986.
- [100] Alan R. Rogers. Population differences in gene frequencies as opposed to quantitative characters. *American Naturalist*, 127(5):729–730, 1986.
- [101] Alan R. Rogers. Comment on “sociobiology of sex and sexes,” by Marion Blute. *Current Anthropology*, 25:204–205, 1984.
- [102] A.R. Rogers and R. Chakraborty. Metric variation in subdivided populations. *American Journal of Physical Anthropology*, 60(2):246–246, 1983.
- [103] Alan R. Rogers. Assortative mating and the segregation variance. *Theoretical Population Biology*, 23:110–113, 1983.
- [104] Alan R. Rogers and Henry C. Harpending. Population structure and quantitative characters. *Genetics*, 105(4):985–1002, 1983.
- [105] Alan R. Rogers. *Variation of Neutral Characters in Subdivided Populations*. PhD thesis, University of New Mexico, Albuquerque, December 1982.
- [106] Alan R. Rogers. Data collection and information loss in the study of spatial pattern. *World Archaeology*, 14:249–258, 1982.
- [107] Alan R. Rogers. Evaluating distinctions in Mogollon Brownwares. In George Kegley, editor, *Archaeological Investigations at Hueco Tanks State Park, El Paso County, Texas*. Texas Parks and Wildlife Department, Austin, TX, 1980.



- [108] Alan R. Rogers and William J. Chasko. The spatial distribution of archeological sites: A clue to subsistence behavior. In J. V. Biella and R. C. Chapman, editors, *Adaptive Change in the Northern Rio Grande Valley*, volume 4 of *Archeological Investigations in Cochiti Reservoir, New Mexico*, pages 283–294. Office of Contract Archeology, University of New Mexico, Albuquerque, NM, 1979.
- [109] Mark Wimberly and Alan R. Rogers. *Archeological Survey of the Three Rivers Drainage*. Human Systems Research, Tularosa, NM, 1977.

## Research Funding

- 2020–2022 NSF BCS 1945782. “Genetic evidence on the deep history of human populations.” (AR Rogers, PI; T Webster, Co-PI) Amount: \$267,670.
- 2016–2019 NSF BCS 1638840. “Effect of archaic admixture on modern human adaptations.” (AR Rogers, PI) Amount: \$175,000.
- 2013 NSF BCS 1321412. “Did hunting or climate change cause a Late Holocene bottleneck in California Tule Elk? An integrated test using ancient DNA and stable isotopes.” (J Broughton, PI; AR Rogers & JB Coltrain, Co-PIs) Amount: \$203,716.
- 2005 NSF 0343198. Demography of the Tchimba of Northwest Namibia (AR Rogers, PI). Funded Steven Josephson’s field work. Amount: \$30,314.
- 2002 NSF SBR–0218338. Collaborative research: mobile elements and primate evolution (LB Jorde, PI). Provides summer salary for 5 years, and paid for a computer programmer.
- 1999 NIH GM59290 Population genetics of mobile elements. (LB Jorde, PI) provides 50% release from teaching for 4 years.
- 1995 NSF 9512178. “Acquisition of Equipment for Automated DNA Sequencing.” (LB Jorde, PI) Amount: \$112,932.
- 1993 Supplement to NSF grant DBS–9310105 for purchase of PCR machine. Amount: \$5,400. [The University of Utah contributed an additional \$5,400.]
- 1993 NSF DBS–9310105. 2-year continuation of “Molecular Genetic Studies of Human Evolutionary History.” Amount: \$192,522.
- 1992 NSF DBS–9211255 1-year project “Molecular Genetic Studies of Human Evolutionary History.” Amount: \$90,709.
- 1991 Grant from the College of Social and Behavioral Sciences, University of Utah, for a study of age-differences in rates of time preference. Amount: \$1,200.
- 1988–1993 NIH grant MGN 1 R29 GM39593: Structured emigration and genetic population differences. Funding for first year: \$57,805.

## Presentations

- Oct 2014 How population growth affects linkage disequilibrium. American Society of Human Genetics. San Diego, CA. (poster)
- Nov 2014 Bias in estimates of archaic admixture. Utah Molecular Evolution Retreat. Deer Valley, UT.
- Oct 2015 The recent history of human population size. American Society of Human Genetics. Baltimore, MD. (poster)
- Apr 2016 Allele sharing between archaic and modern humans. American Association of Physical Anthropologists. Atlanta, GA.
- May 2016 Bias in estimates of archaic admixture. Society of Molecular Biology and Evolution Satellite Meeting on the Genetics of Admixed Populations. San Antonio, TX. (poster)
- Nov 2016 Legofit: a new estimator of the history of population size and admixture. Southwest Association of Biological Anthropologists. Arizona State University. (poster)
- April 2017 Genetic evidence for an archaic human diaspora. American Association of Physical Anthropologists. New Orleans, LA.
- July 2017 The origin of Neanderthals and Denisovans. Society for Molecular Biology and Evolution. Austin, TX.
- Feb 2018 Hyperarchaic admixture into Denisovans. Invited lecture, University of Utah.
- Feb 2018 Hyperarchaic admixture into Denisovans. Invited lecture, Rutgers University.
- Feb 2018 Hyperarchaic admixture into Denisovans. Invited lecture, University of Utah.
- April 2018 Genetic evidence for early separation of Neanderthals and Denisovans and an early archaic bottleneck. American Association of Physical Anthropologists. Austin, TX.
- Sept 2018 The early history of Neanderthals and Denisovans. International Symposium on Biomolecular Archaeology. Jena, Germany.
- Mar 2019 Superarchaic admixture confirms a deep separation of Neanderthals and Denisovans. American Association of Physical Anthropologists. Cleveland, OH.
- Nov 2019 Neanderthal-Denisovan ancestors interbred with a distantly-related hominin. Southwest Association of Biological Anthropologists, Arizona State University.
- Apr 2019 Neanderthal-Denisovan ancestors interbred with a distantly-related hominin. American Association of Physical Anthropologists. Los Angeles; moved online at <https://meeting.physanth.org/registration/286033>.
- Mar 2021 Neanderthal-Denisovan ancestors interbred with a distantly-related hominin. Dept. of Bioinformatics and genomics, UNC-Charlotte. Invited lecture.