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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

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 of *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] 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>.
- [2] 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.
- [3] 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.
- [4] 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.
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- [6] Alan R. Rogers and Ryan J. Bohlender. Bias in estimators of archaic admixture. *Theoretical Population Biology*, 100:63–78, March 2015. ISSN 0040-5809.
- [7] Alan R. Rogers. How population growth affects linkage disequilibrium. *Genetics*, 197(4):1329–1341, August 2014.
- [8] 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.
- [9] 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.
- [10] Alan R. Rogers. Genetic relatedness to sisters’ children has been underestimated. *Proceedings of the Royal Society of London, Series B*, 280, 2012.
- [11] Alan R. Rogers. *The Evidence for Evolution*. University of Chicago Press, 2011.
- [12] 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.
- [13] 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.

- [14] 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.
- [15] Alan R. Rogers and Chad Huff. Linkage disequilibrium between loci of unknown phase. *Genetics*, 182(3):839–844, July 2009.
- [16] 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.
- [17] 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.
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- [30] 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.
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Research Funding

- 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, 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.