

# Alan Ray Rogers

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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

7/94– Professor, Dept. of Anthropology, University of Utah.  
4/98– Adjunct Professor, Dept. of Biology, University of Utah.  
1/21– Recommender, PCI Mathematical and Computational Biology  
2/20– Recommender, PCI Evolutionary Biology  
2021 Superior Research Award (Senior Category), College of Social and Behavioral Science, University of Utah.  
3/16–12/22 Scientific Advisory Board, Max Planck Institute for Evolutionary Anthropology.  
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  
7/91–6/94 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] David Puts, David Carrier, and Alan R. Rogers. Contest competition for mates and the evolution of human males. In David M. Buss, editor, *The Oxford Handbook of Human Mating*, pages 317–377. Oxford University Press, Oxford, 2023.
- [2] Colin M. Brand, Frances J. White, Alan R. Rogers, and Timothy H. Webster. Estimating bonobo (*Pan paniscus*) and chimpanzee (*Pan troglodytes*) evolutionary history from nucleotide site patterns. *Proceedings of the National Academy of Sciences, USA*, 119(17):e2200858119, 2022.
- [3] Alan R. Rogers. Beating your neighbor to the berry patch. *Peer Community Journal*, 2:e34, 2022.
- [4] Alan R. Rogers. An efficient algorithm for estimating population history from genetic data. *Peer Community Journal*, 2:e32, 2022.
- [5] 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*, 101(4):951–957, 2020.
- [6] Alan R. Rogers. The deep history of human populations. *Newsletter of the Center for High-Performance Computing, University of Utah*, Spring, 2020.
- [7] 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.
- [8] Alan R. Rogers. Legofit: Estimating population history from genetic data. *BMC Bioinformatics*, 20:526, 2019.
- [9] 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>.
- [10] 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.
- [11] 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.
- [12] 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.
- [13] 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.

- [14] Alan R. Rogers and Ryan J. Bohlender. Bias in estimators of archaic admixture. *Theoretical Population Biology*, 100:63–78, March 2015. ISSN 0040-5809.
- [15] Alan R. Rogers. How population growth affects linkage disequilibrium. *Genetics*, 197(4):1329–1341, 8 2014.
- [16] 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.
- [17] 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, September 2013.
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- [19] Alan R. Rogers. *The Evidence for Evolution*. University of Chicago Press, 2011. ISBN 0226723828.
- [20] 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.
- [21] 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.
- [22] 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.
- [23] Alan R. Rogers and Chad Huff. Linkage disequilibrium between loci of unknown phase. *Genetics*, 182(3):839–844, July 2009.
- [24] 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.
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- [26] 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.
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- [29] Vinayak Eswaran, Henry Harpending, and Alan R. Rogers. Genomics refutes an exclusively African origin of humans. *Journal of Human Evolution*, 49:1–18, 2005.
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- [33] Andrew Ugan, Jason Bright, and Alan Rogers. When is technology worth the trouble? *Journal of Archaeological Science*, 30(10):1315–1329, 2003.
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- [52] 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.
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- [55] 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.
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- [59] 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.
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- [109] Alan R. Rogers. Data collection and information loss in the study of spatial pattern. *World Archaeology*, 14(2):249–258, 1982.
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- [112] *Archeological Survey of the Three Rivers Drainage*, volume 15 of *The Artifact*, El Paso, TX, 1977. El Paso Archeological Society.

## Research Funding

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|-----------|---|
| 2020–2023 | 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.  |
| 2013–2018 | 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.
- 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.