W. Andrew Barr - Curriculum Vitae

Center for the Advanced Study of Human Paleobiology
Department of Anthropology
The George Washington University

800 22nd St NW, Suite 6000
Washington, DC 20052
wabarr@gmail.com - (202) 994-3213

Education

PhD - 2014 - University of Texas at Austin. Anthropology.
MA - 2008 - University of Texas at Austin. Anthropology.
BS - 2005 - Tulane University. Anthropology, French.

Academic Appointments

Visiting Assistant Professor. Center for the Advanced Study of Human Paleobiology. Department of Anthropology. The George Washington University. Spring 2016 - Present.
Postdoctoral Scientist. Center for the Advanced Study of Human Paleobiology. Department of Anthropology. The George Washington University. Advisor: Bernard Wood. Fall 2014 - Fall 2015.
Research Associate. Department of Paleobiology. National Museum of Natural History. 2014 - Present.

Peer Reviewed Publications

In Prep

Barr WA. The morphology of the bovid calcaneus: function, phylogeny, and allometric scaling. To be submitted to *Journal of Morphology*.

In Review

Barr WA, Du A, Toth A, Jukar A, Bercovici A, Dommain A, Dumouchel L, Villasenor A, Negash E, Behrensmeyer AK, and Lyons SK. Evaluating climatic and mid-domain effects on mammalian species richness at global and continental scales. In review at to *Journal of Biogeography*.

Reed, DN, **Barr WA**, Kappelman J. PaleoCore: an open-source platform for geospatial data integration in paleoanthropology. To be published in Anemone R, Conroy G (eds.), *New Geospatial Approaches in Anthropology*. University of New Mexico Press. Albuquerque, NM.

Blondel C, Rowan J, Merceron G, Bibi F, Negash E, **Barr WA**, Boisserie JR. Feeding ecology of Tragelaphini (Bovidae) from the Shungura Formation, Omo Valley, Ethiopia: contribution of dental wear analyses. In review at *Palaeogeography, Palaeoclimatology, Palaeoecology*.

Kemp A and **Barr WA**. Rates of homoplasy vary among regions of the mammalian skeleton. In review at *Journal of Human Evolution.*

Accepted or In Press

Barr WA. Signal or noise? A null model method for testing hypotheses about pulsed faunal turnover. In press at *Paleobiology*.

Barr WA. Accepted. *Ecomorphology*. To be published in D.A. Croft, S.W. Simpson, and D.F. Su (eds.), *Methods in Paleoecology: Reconstructing Cenozoic Terrestrial Environments and Ecological Communities*. Springer (Vertebrate Paleobiology and Paleoanthropology Series), Dordrecht.

2017

Barr WA. Bovid locomotor functional trait distributions reflect land cover and annual precipitation in sub-Saharan Africa. *Evolutionary Ecology Research*. 18:253-269.

2015

Barr WA. Paleoenvironments of the Shungura Formation (Plio-Pleistocene: Ethiopia) based on ecomorphology of the bovid astragalus. *Journal of Human Evolution*. 88:97-107. doi:10.1016/j.jhevol.2015.05.002

Reed D, **Barr WA**, McPherron S, Bobe R, Geraads D, Wynn J, Alemseged Z. Digital Data Collection in Paleoanthropology. *Evolutionary Anthropology*. 24:238-249. doi:10.1002/evan.21466

Thompson JC, McPherron S, Bobe R, Reed DN, **Barr WA**, Wynn J, Marean CW, Geraads D, Alemseged Z. Taphonomy of fossils from the hominin-bearing deposits at Dikika, Ethiopia. *Journal of Human Evolution*. 86:112-135. doi:10.1016/j.jhevol.2015.06.013

2014

Barr WA. Functional Morphology of the Bovid Astragalus In Relation To Habitat: Controlling Phylogenetic Signal In Ecomorphology. *Journal of Morphology*. 275:1201-1216. doi:10.1002/jmor.20279

Barr WA and Scott RS. Phylogenetic comparative methods complement discriminant function analysis in ecomorphology. *American Journal of Physical Anthropology*. 153:663-674. doi:10.1002/ajpa.22462

Scott RS and **Barr WA**. Ecomorphology and phylogenetic risk: implications for habitat reconstruction using fossil bovids. *Journal of Human Evolution*. 73:47-57. doi:10.1016/j.jhevol.2014.02.023

2010

Reed DN, and **Barr WA**. A preliminary account of the rodents from Pleistocene levels at Grotte des Contrebandiers (Smuggler's Cave), Morocco. *Historical Biology*. 22:286-294. doi:10.1080/08912960903562192

Funding and Awards

2015

National Science Foundation (Archaeology) - Middle Pleistocene Hominin Behavior and Paleoecology at Farre, Chalbi Basin, Northern Kenya. PI: Ferraro. Role: Senior Scientist. Amount awarded: $60,000.

2014

Travel Grant - Paleoanthropology Society for meetings in Calgary. $500.

2013

Named Continuing Fellowship - University of Texas at Austin Graduate School. $29,000.

Pollitzer Student Travel Award - American Association of Physical Anthropologists. $500.

2012

Dissertation Fieldwork Grant - Wenner-Gren Foundation. $13,317.

2008

Professional Development Award - University of Texas at Austin. Also recieved in 2009-2011.

2007

Graduate Research Fellowship - National Science Foundation. $90,000.

David Bruton, Jr. Graduate Fellowship - University of Texas at Austin. Also received in 2008.

Courses Taught

Introduction to Biological Anthropology. ANTH 1001. Undergraduate survey course with enrollment of approximately 240 students. This course is designed as a survey of the field of biological anthropology, and fulfills a general science requirement. George Washington University, Anthropology. Taught Fall 2016.

Analytical Methods in Evolutionary Anthropology. ANTH 6413. I designed this graduate course course covering applied statistical methods (e.g, regression, ANOVA and related techniques, categorical data analysis, resampling approaches) and the R statistical programming language. This is a required course for the Hominid Paleobiology PhD program. George Washington University, Anthropology. Taught Spring 2015, Spring 2016.

Climate Change and Human Evolution. ANTH 3491. I designed this upper level undergraduate course covering changes in global climate through evolutionary time and the impacts on evolution, with an emphasis on humans. (Previous course title: Evolutionary Impacts of Cenozoic Climate Change). George Washington University, Anthropology. Taught Spring 2016.

Public Understanding of Science. HOMP 8302. Graduate course in which students complete semester-long public service internships. Student projects target underserved Washington, DC-area public schools and general audiences at public museums with a goal of increasing scientific literacy and creating interest in scientific careers. George Washington University, Anthropology. Taught Spring 2016.

GIS and Remote Sensing for Archaeology and Paleontology. ANT 391 / GRG 396. Teaching Assistant. University of Texas at Austin, Anthropology. 2010.

Human Variation. ANT 394C. Teaching Assistant. University of Texas at Austin, Anthropology. 2009.

Introduction to Physical Anthropology. ANT 301. Teaching Assistant. University of Texas at Austin, Anthropology. 2006, 2007, 2010, 2011, 2012.

Professional Preparation

External Member. Evolution of Terrestrial Ecosystems Working Group. National Museum of Natural History. 2015 - Present.

Research Associate and Software Developer. PaleoCore Project. I am a key member of this NSF Funded project, which aims to create a data-standard for physical anthropology. I contributed heavily to the development of PaleoCore informatics tools for data sharing. 2012 - Present.

Participant. AnthroTree Workshop in Phylogenetic Methods. Amherst, MA. 2011.

Research Assistant. eSkeletons.org and eFossils.org. PI: John Kappelman. 2010, 2011.