

W. Andrew Barr - Curriculum Vitae

Current Positions

PostDoctoral Scientist
Instructor

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

Education

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

Peer Reviewed Publications

Accepted

Barr, WA. Paleoenvironments of the Shungura Formation based on ecomorphology of the bovid astragalus. *Journal of Human Evolution*.

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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/10.1080/08912960903562192)

Funding and Awards

2014

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

2013

Named Continuing Fellowship - UT 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 - Dept. of Anthropology, UT Austin. Also recieved in 2009-2011.

2007

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

Liberal Arts Graduate Research Fellowship - UT Austin.

Student Prize - Texas Association of Biological Anthropologists.

David Bruton, Jr. Graduate Fellowship - UT Austin. Also recieved in 2008.

Professional Preparation

2014 - Present - PostDoctoral Scientist. Center for the Advanced Study of Human Paleobiology. The George Washington University. Advisor: Bernard Wood.

2012 - Present - Research Associate & 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, and have been an organizer and participant in workshops organized by PaleoCore.

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

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

2010, 2012 - Head Teaching Assistant. Introduction to Physical Anthropology, UT Austin.

2010 - Teaching Assistant. GIS and Remote Sensing for Archaeology and Paleontology, UT Austin.

2009 - Teaching Assistant. Human Variation, UT Austin.

2006, 2007, 2011 - Teaching Assistant. Introduction to Physical Anthropology, UT Austin.

Fieldwork Experience

2014 - Mille-Logya Research Project, Afar Region, Ethiopia. PI: Zeresenay Alemseged. I am a member of the scientific team conducting research to recover new fossil evidence of human evolution from this Plio-Pleistocene site.

2013 - Great Divide Basin Project, Wyoming. PI: Robert Anemone. Collected primate and mammalian fossils from Eocene sediments, and prospected for new localities.

2010, 2012 - Dikika Research Project, Afar Region, Ethiopia. PI: Zeresenay Alemseged. Surface collection of Plio- Pleistocene hominin and mammalian fossils. Managed GIS data collection with hand-held computers and high-precision GPS base station.

2007, 2008, 2010 - Dalquest Research Site, Big Bend Region, Texas. PI: E. Chris Kirk. Surface collected primate and mammalian fossils in the Devil's Graveyard Formation. (Eocene: Late Uintan).

2009 - Contrebandiers Cave, Temara, Morocco. PI: Harrold Dibble & Utsav Schurmans. Excavated site preserving Middle Stone Age archaeology (Aterian) and hominin remains. Performed systematic analysis of rodent fauna.

Scholarly Presentations

Conference Presentations with Published Abstracts

2013

Barr, WA. Ecomorphology of the bovid astragalus: body size, function, phylogeny and paleoenvironmental reconstruction. *American Journal of Physical Anthropology*. 150:74.

2012

Barr, WA. Ecomorphology in a phylogenetic statistical context: a case study using the bovid femur. *American Journal of Physical Anthropology*. 147:90-91.

Scott, RS and Barr, WA. Ecomorphology and phylogeny among the Bovidae: implications for habitat reconstruction. *American Journal of Physical Anthropology*.

Kappelman, JK, Keane P, Reed D, Tenbarger J, Witzel A, Barr WA, Nachman BA, Russo GA. eFossils.org: a collaborative website and community database for the study of human evolution. *American Journal of Physical Anthropology*.

2011

Reed DN, McPherron S, Barr WA, Alemseged Z, Bobe R, Geraads D, and Wynn J. A new GPS data collection methodology and data schema for integrating multiple project databases: examples from the Dikika Research Project geodatabase. *American Journal of Physical Anthropology*. 144:249-250.

2009

Barr, WA & Reed, DN. Coping with taxonomic ambiguity and inter-observer variation in paleontological and paleoanthropological analyses. *American Journal of Physical Anthropology*. 144:249-250.

Toborowsky, CJ & Barr, WA & Lewis, RJ. Does environmental unpredictability drive lemur life histories?. *American Journal of Physical Anthropology*.

2008

Barr, WA. The effects of allometric scaling patterns on the template method for estimating dimorphism. *American Journal of Physical Anthropology*.

Invited Talks and Guest Lectures

2013

Data reshaping and advanced plotting with ggplot2. Guest Lecture for Dr. Denné Reed's graduate-level course in Statistical Methods at UT Austin

Guest Lecture for E. Christopher Kirk on Eocene Primate evolution for the Introduction to Physical Anthropology course

Professional Memberships

American Association of Physical Anthropologists

Paleoanthropology Society