

# W. Andrew Barr - Curriculum Vitae

## Current Position

### PostDoctoral Scientist

Center for the Advance 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)

**2014** - 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)

**2014** - 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

**2013 - Pollitzer Student Travel Award** - American Association of Physical Anthropologists. \$500

**2012 - Dissertation Fieldwork Grant** - Wenner-Gren Foundation. \$13,317

**2007-2011 - Graduate Research Fellowship** - National Science Foundation. \$90,000

**2008 - 2011 - Professional Development Awards** - Dept. of Anthropology, UT Austin.

**2007 - Liberal Arts Graduate Research Fellowship** - UT Austin.

**2007 - Student Prize** - Texas Association of Biological Anthropologists.

**2007, 2008 - David Bruton, Jr. Graduate Fellowship** - UT Austin.

## 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.

**2012** - Scott, RS and Barr, WA. Ecomorphology and phylogeny among the Bovidae: implications for habitat reconstruction. *American Journal of Physical Anthropology*.

**2012** - 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.

**2009** - 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

**2013** - 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