

## CURRICULUM VITAE

### Dr. Benjamin S. Arbuckle

#### a) Contact info:

Office Address: Department of Anthropology, CB#3115, 301 Alumni Building, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-3115, USA

Email: bsarbu@email.unc.edu

#### b) Education:

2006 PhD Anthropology, Harvard University

2003 MA Anthropology, Harvard University

1999 BA Anthropology, *Summa Cum Laude*, College of William and Mary

#### c) Employment:

2016-present Associate Professor, Department of Anthropology, University of North Carolina at Chapel Hill

2013-2016 Assistant Professor, Department of Anthropology, University of North Carolina at Chapel Hill

2007-2013 Assistant Professor, Department of Anthropology, Baylor University

2006-2007 Lecturer in the Department of Anthropology, Baylor University

2002-2006 Teaching Fellow Harvard College, Department of Anthropology, Harvard University

#### d) Honors and Fellowships:

2014 Best Paper Award (Kansa, Kansa and Arbuckle, “Publishing and pushing: Mixing models for communicating research data”). International Digital Curation Conference, February 24-27, San Francisco.

2006 Tom and Laurel Nebel Graduate Fellow, Harvard University

2002-2005 Distinction in Teaching, Bok Center of Teaching and Learning, Harvard University

1999 National Science Foundation Graduate Research Honorable Mention

1999 Phi Beta Kappa

#### e) Bibliography and products of scholarship:

##### Books (peer-reviewed):

Arbuckle, B.S. and S. McCarty (2015) (eds) *Animals and Inequality in the Ancient World*. University Press of Colorado: Boulder.

- Review #1. Reitz, E. 2015. *Antiquity* 80(4): 783-4.
- Review #2: 2015, *Anthropology News* <http://www.anthropology-news.org/?book-review=we-think-with-animals-and-thereby-we-are-human>
- Review #3. Marom, N. 2016. *Journal of Eastern Mediterranean Archaeology and Heritage Studies* 4(4): 367-368.  
[http://www.jstor.org/stable/10.5325/jeasmedarcherstu.4.4.0367?seq=1#page\\_scan\\_tab\\_contents](http://www.jstor.org/stable/10.5325/jeasmedarcherstu.4.4.0367?seq=1#page_scan_tab_contents)
- Review #4: Hill, Erica 2016. *Journal of Anthropological Research* 24:533-34

Arbuckle, B. S., C. Makarewicz and A.L. Atıcı (eds) (2009) *Zooarchaeological contributions to reconstructing cultural systems*. Publication Scientifiques du Muséum national d’Histoire naturelle, Anthropozoologica vol. 44: Paris.

##### Peer-reviewed Journal Articles:

Hammer, E. and B.S. Arbuckle (2017) 10,000 years of Anatolian pastoralism: a review of evidence for variability in pastoral lifeways. *Nomadic Peoples* 21(2):214-267. doi:10.3197/np.2017.210204

Bennett, E. A., S. Champlot, J. Peters, B.S. Arbuckle, S. Guimaraes, M. Pruvost, S. Bar-David, S.J.M. Davis, M. Gautier, P. Kaczensky, R. Kuehn, M. Mashkour, A. Morales-Muñiz, E. Pucher, J-F. Tournepeiche, H-P. Uerpmann, A. Bălăşescu, M. Germonpré, C.Y. Gündem, M.-R. Hemami, P-E. Moullé, A. Öztan, M. Uerpmann, C. Walzer, T. Grange, E-M. Geigl (2017) Taming the Late Quaternary phylogeography of the Eurasian wild ass through ancient and modern DNA. *PLOS ONE*. <https://doi.org/10.1371/journal.pone.0174216>

Makarewicz, C., B.S. Arbuckle and A. Öztan (2017) Evidence for vertical transhumance of sheep and goats visible in intra-tooth carbon ( $\delta^{13}\text{C}$ ) and oxygen ( $\delta^{18}\text{O}$ ) isotopic times series from Chalcolithic Köşk Höyük, central Turkey. *Journal of Archaeological Science* 86:68-80. <http://dx.doi.org/10.1016/j.jas.2017.01.003>

Arbuckle, B. S., M. Price, H. Hongo, B. Öksüz (2016) Documenting the initial appearance of domestic cattle in the Eastern Fertile Crescent (northern Iraq and western Iran). *Journal of Archaeological Science* 72:1-9. doi:10.1016/j.jas.2016.05.008

Sharon R. Steadman, Gregory McMahon, Jennifer C. Ross, Marica Cassis, T. Emre Şerifoğlu, Benjamin S. Arbuckle, Sarah E. Adcock, Songül Alpaslan Roodenberg, Madelynn von Baeyer, and Anthony J. Lauricella (2015) The 2013 and 2014 Seasons of Excavation at Çadır Höyük on the Anatolian North Central Plateau. *Anatolica* 41:87-124.

Price, M.D. and B.S. Arbuckle (2015) Early pig management in the Zagros Flanks: Reanalysis of the fauna from Neolithic Jarmo, northern Iraq. *International Journal of Osteoarchaeology*. 25(4): 441-453. doi:10.1002/oa.2312.

Arbuckle, B.S. (2014) The Rise of Cattle Cultures in Bronze Age Anatolia. *Journal of Eastern Mediterranean Archaeology and Heritage Studies* 2(4): 277-293. <http://www.jstor.org/stable/10.5325/jeasmedarcherstu.2.4.0277>

Arbuckle, B.S., S.W. Kansa, E. Kansa, D. Orton, C. Çakırlar, L. Gourichon, L. Atici, A. Galik, A. Marciniak, J. Mulville, H. Buitenhuis, D. Carruthers, B. De Cupere, A. Demirergi, S. Frame, D. Helmer, L. Martin, J. Peters, N. Pöllath, K. Pawłowska, N. Russell, K. Twiss, D. Würtenberger (2014) Data Sharing Reveals Complexity in the Westward Spread of Domestic Animals across Neolithic Turkey. *PLoS ONE* 9(6):e99845, pg1-11. doi:10.1371/journal.pone.0099845.

Kansa, E.C., S. W. Kansa and B.S. Arbuckle (2014) Publishing and pushing: Mixing models for communicating research data. *International Journal of Digital Curation* 9: 57-70. <http://dx.doi.org/10.2218/ijdc.v9i1.301>.

Arbuckle, B.S. (2014) Pace and process in the origins of animal husbandry in Neolithic Southwest Asia. *Bioarchaeology of the Near East* 8:53-81. <http://www.anthropology.uw.edu.pl/>

Bethan Upex, M. Balasse, A. Tresset, B.S. Arbuckle, K. Dobney (2014) Protocol for recording enamel hypoplasia in modern and archaeological caprine populations. *International Journal of Osteoarchaeology* 24(1): 79-89. DOI: 10.1002/oa.2227

Arbuckle, B.S., and L. Atici (2013). Initial diversity in sheep and goat management in Neolithic southwestern Asia. *Levant* 45(2):219-235. DOI 10.1179/0075891413Z.00000000026.

Steadman, Sharon R., Gregory McMahon, Jennifer Ross, Marica Cassis, Jeffrey D. Geyer, Benjamin S. Arbuckle, and Madelynn von Baeyer (2013) The 2009 and 2012 seasons of excavation at Çadır Höyük on the Anatolian North Central Plateau. *Anatolica* 39: 113-167.

Arbuckle, B.S. (2013) The late adoption of cattle and pig husbandry in Neolithic Central Turkey. *Journal of Archaeological Science* 40(4):1805-1815. DOI: 10.1016/j.jas.2012.12.008.

Claudio Ottoni, Linus Girdland Flink, Allowen Evin Christina Geörg, Bea De Cupere, Wim Van Neer, László Bartosiewicz, Anna Linderholm, Ross Barnett, Joris Peters, Ronny Decorte, Marc Waelkens, Nancy Vanderheyden, François-Xavier Ricaut, A. Rus Hoelzel, Marjan Mashkour, Azadeh Fatemeh Mohaseb Karimlu, Shiva Sheikhi Seno, Julie Daujatg, Fiona Brock, Ron Pinhasi, Hitomi Hongo, Miguel Perez-Enciso, Morten Rasmussen, Laurent Frantz, Hendrik-Jan Megens, Richard Crooijmans, Martien Groenen, Benjamin Arbuckle, Nobert Benecke, Una Strand Vidarsdottir, Joachim Burger, Thomas Cucchi, Keith Dobney, Greger Larson (2013) Pig domestication and human-mediated dispersal in western Eurasia revealed through ancient DNA and geometric morphometrics. *Journal of Molecular and Evolutionary Biology* 30(4):824-832. doi: 10.1093/molbev/mss261

Arbuckle, B.S. (2013) Zooarchaeology at Acemhöyük. *Anadolu/Anatolia* 39: 55-68.

Arbuckle, B. S. (2012) Pastoralism, provisioning, and power at Bronze Age Acemhöyük, Turkey. *American Anthropologist* 114(3):462-476.

Arbuckle, B.S. (2012) Animals and Inequality in Chalcolithic Anatolia. *Journal of Anthropological Archaeology* 31:302-313. DOI: 10.1016/j.jaa.2012.01.008

Arbuckle, B.S. and C.M. Erek (2012) Late Epipaleolithic hunters of the central Taurus: faunal remains from Direkli cave, Kahramanmaras, Turkey. *International Journal of Osteoarchaeology* 22(6): 694-707. DOI: 10.1002/oa.1230.

Arbuckle, B.S. and C. Makarewicz (2009) The emergence of cattle (*Bos taurus*) management in Neolithic central Anatolia. *Antiquity* 83: 669-686.

Arbuckle, B. S., A. Öztan, and S. Gülçur (2009) The evolution of sheep and goat husbandry in central Anatolia. *Anthropozoologica* 44(1):129-157.

Arbuckle, B. S., C. Makarewicz, AL Atici (2009) Zooarchaeological contributions to Near Eastern Prehistory. *Anthropozoologica* 44(1): 9-11.

Arbuckle, B. S. (2009) Chalcolithic caprines, Dark Age dairy, and Byzantine beef: A first look at animal exploitation at Middle and Late Holocene Çadır Höyük, north central Turkey. *Anatolica* 35:179-224.

Arbuckle, B. S. (2008) Revisiting Neolithic Caprine Exploitation at Suberde, Turkey. *Journal of Field Archaeology* 32(2): 219-236.

Arbuckle, B. S., and V. Özkaya (2007) Animal exploitation at Körtik tepe: An early Aceramic Neolithic site in Southeast Turkey. *Paléorient* 32(2): 113-136.

#### **Chapters in Peer-Reviewed Edited Books:**

Meiggs, D., B. S. Arbuckle, A. Öztan (2017) The Pixelated Shepherd: Identifying detailed local land use practices at Chalcolithic Köşk Höyük, central Turkey, using a strontium isotope ( $^{87}\text{Sr}/^{86}\text{Sr}$ ) isoscape. In A. Ventresca-Miller, C. Makarewicz (eds), *Isotopic Investigations of Pastoralism*. Pp. 77-96. Routledge: Oxford. Proofs received 7/28/2017.

Makarewicz, C., B. S. Arbuckle, A. Öztan (2017) Carbon and nitrogen isotopic evidence for sheep and goat pastoral management practices at Chalcolithic Köşk Höyük, Central Turkey. In A. Ventresca-Miller, C. Makarewicz (eds), *Isotopic Investigations of Pastoralism*. Pp. 113-122. Routledge: Oxford. Proofs received 7/28/2017.

Peters, J., N. Pöllath and B.S. Arbuckle (2017) The emergence of livestock husbandry in Anatolia. In Umberto Albarella, Hannah Russ, Kim Vickers and Sarah Viner-Daniels (eds) *The Oxford Handbook of Zooarchaeology*, pp. 247-265. Oxford: Oxford University Press. Submitted 5/12/2014. Proofs received 10/24/16.

Peters, J., B.S. Arbuckle, and N. Pöllath (2015) Subsistence and beyond: Animals in Neolithic Anatolia. In Özdoğan, M., N. Başgelen, and P. Kuniholm (eds), *Neolithic in Turkey 10.500-5200 BC. Volume 6: Environment, settlement, flora, fauna, dating, symbols and belief with views from North, South, East and West*. Pp. 135-203. Istanbul: Arkeoloji ve Sanat Yayınları.

Arbuckle, B.S. (2015) Large game depression and the process of animal domestication in the Near East. In M.S. Kerner, R. Dann, and P. Bangsgaard (eds.) *Climate Change in Ancient Societies*. Pgs 215-243. University of Chicago Press: Chicago.

Arbuckle, B. S. (2015) Inequality and the origin of intensive wool production in Central Anatolia. In B.S. Arbuckle and S. McCarty (eds.) *Animals and Inequality in the Ancient World*, pp 211-231. University Press of Colorado: Boulder.

Arbuckle, B. S. and S. McCarty (2015) Animals and Inequality: An Introduction. In B.S. Arbuckle and S. McCarty (eds.) *Animals and Inequality in the Ancient World*, pp1-10. University Press of Colorado: Boulder.

Arbuckle, B. S. (2012) Animals in the Ancient Near East. In D. Potts (ed.) *A Companion to the Archaeology of the Ancient Near East*, pg 201-219. Wiley-Blackwell: Oxford.

Arbuckle, B. S. (2008) Caprine exploitation at Er Baba Höyük: a Pottery Neolithic Village in central Anatolia. In L. Gourichon and E. Vila (eds.) *Archaeozoology of southwestern Asia VIII*. Pgs. 345-365. Travaux de la Maison du l'Orient: Paris.

Arbuckle, B. S. (2005) Experimental animal domestication and its application to the study of animal domestication in prehistory. In J. D. Vigne, J. Peters, and D. Helmer (eds), *The first steps of animal domestication: New archaeozoological techniques*. Pgs 18-33. Oxbow Books: Oxford.

Arbuckle, B. S., and J. Bowen (2004) Zooarchaeology of colonization: an Example from the Colonial Chesapeake. In M. Mondini, S. Munoz, and S. Wickler (eds), *Colonisation, migration and marginal areas: a Zooarchaeological approach*, pp. 20-27. Oxbow Books: Oxford.

### Research Reports

Arbuckle, B.S. (2013) Zooarchaeology at Acemhöyük. *Kazı Sonuçları Toplantısı* 34(1): 281-289.

Öztan, A. and B.S. Arbuckle (2013) 2011 Yılı Acemhöyük kazıları ve sonuçları. *Kazı Sonuçları Toplantısı* 34(1): 275-281.

Arbuckle, B.S. (2011) Zooarchaeology at Acemhöyük. *Kazı Sonuçları Toplantısı* 32(3): 223-229.

Öztan, A. and B.S. Arbuckle (2011) 2009 Yılı Acemhöyük kazıları. *Kazı Sonuçları Toplantısı* 32(3): 216-223.

Öztan, A., F. Açıkgöz, and B. S. Arbuckle (2010) 2008 Yılı Köşk Höyük kazıları. *Kazı Sonuçları Toplantısı* 31(2): 251-269.

Öztan, A., F. Açıkgöz, and B. S. Arbuckle (2009) 2007 Yılı Köşk Höyük kazıları. *Kazı Sonuçları Toplantısı* 30 (3): 311-328.

Öztan, A., S. Özkan, F. Açıkgöz, and B. S. Arbuckle (2007) 2006 Yılı Köşk Höyük kazıları raporu. *Kazı Sonuçları Toplantısı* 29(2): 117-123.

Arbuckle, B. S. (2007) Zooarchaeology at Köşk Höyük. *Kazı Sonuçları Toplantısı* 29(2): 124-136.

Öztan, A., F. Açıkgöz, S. Özkan, M. C. Erek, B. S. Arbuckle (2006) 2005 Yılı Köşk Höyük kazıları raporu. *Kazı Sonuçları Toplantısı* 28(2): 529-548.

#### **Book Reviews:**

Arbuckle, B. S. (2016) [Book review] “The Domestication of Equidae in Third-Millennium BCE Mesopotamia. By Juris Zarins, with the assistance of Rick Hauser. Cornell University Studies in Assyriology and Sumerology 24. Bethesda: CDL Press, 2014. *Journal of Near Eastern Studies* 75(1):174-177. DOI:10.1086/684980

Arbuckle, B. S. (2013) [Book review] “Social Zooarchaeology: Humans and Animals in Prehistory”, *Bulletin of the American Schools of Oriental Research* 370: 223-224.

Arbuckle, B. S. (2010) [Book review] “The Norman Conquest: A Zooarchaeological Perspective”. *International Journal of Osteoarchaeology* 20(6):3-4.

#### **Popular Publications:**

Arbuckle, B. S. (2015) Horses in Prehistoric Turkey. University Press of Colorado Blog. 12/29/2015. <http://upcolorado.com/about-us/blog/item/2886-horses-in-prehistoric-turkey>

Arbuckle, B.S. (2015) Symbolic Uses of Animals in Ancient Anatolia. *Actual Archaeology Magazine. Anatolia* 44: 37-45.

Arbuckle B.S. (2015) Hayvan Sembolizmi. *Aktuel Arkeoloji Dergisi Türkiye* 44: 47-55.

#### **Published Datasets:**

Arbuckle BS, Orton D, Buitenhuis H, Marciniak A, Atici AL et al. (2014) EOL Computational Data Challenge: Zooarchaeology Metrics Dataset Version 2. Open Context. Available: <http://opencontext.org/tables/def8fb9c9d7fdc1993db45b7350ca955>, <http://dx.doi.org/10.6078/M7BZ63Z6>

Arbuckle BS, Orton D, Buitenhuis H, Marciniak A, Atici AL, et al. (2014) EOL Computational Data Challenge: Primary Zooarchaeology Dataset Version 2. Open Context.  
Available: <http://opencontext.org/tables/314adedf882421055fc215a56ba7a79b>, <http://dx.doi.org/10.6078/M7GQ6VPJ>

Arbuckle BS (2013) Köşk Höyük Faunal Data. Open Context: Open Context.  
Available: <http://opencontext.org/tables/f8b79a9771ccf176508cd52845a590b2>,  
<http://dx.doi.org/10.6078/M7H12ZXT>

Arbuckle BS (2013) Erbaba Höyük and Suberde Zooarchaeology Data. Open Context: Open Context.  
Available: <http://opencontext.org/tables/6979344c2aaed2d1454ef0bba7763127>, <http://dx.doi.org/10.6078/M7C8276W>

#### **Dissertation Thesis:**

Arbuckle, B.S. (2006) “The evolution of sheep and goat pastoralism and social complexity in central Anatolia”. PhD Dissertation, Department of Anthropology, Harvard University. University Microfilms: Ann Arbor.

#### **Invited Lectures**

Arbuckle, B.S. (2016) Local and regional processes in the domestication of animals in SW Asia. Paper presented at the Conference: *The Long Revolution: Becoming Neolithic in Southwest Asia*. John Templeton Foundation Project *Our Place: Our Place Our World*. Free University, Berlin. September 30-October 2.

Arbuckle, B.S. (2015) “Pig domestication in SW Asia: The Zooarchaeological evidence”. Paper presented at *Pig out: Hogs and humans in global and historical context*, Program in Agrarian Studies, Yale University, October 17.

Arbuckle, B.S. (2015) “Exploring the origins, spread and diversity of Neolithic animal economies in SW Asia”. CIAMS, Cornell University, March 16.

Arbuckle, B.S. (2013) “New perspectives on the origins of civilization from Neolithic Turkey”. Central Texas Archaeological Society, Fort Worth, TX, April 10.

Arbuckle, B.S. (2013) “People, animals and landscapes: the Central Anatolian Pastoralism Project”. Invited lecture, Department of Anthropology, University of North Carolina at Chapel Hill. March 18.

Arbuckle, B. S. (2010) “Animals and Inequality: Evidence for emerging complexity in Chalcolithic Anatolia”. Stine Rossel Memorial lecture, Harvard University, April 29.

Arbuckle, B. S. (2007) “Hunting and herding in the Central Anatolian Neolithic: An uncertain beginning to pastoralism on the Anatolian Plateau” Columbia University Ancient Near East Seminar, April 11, New York.

Arbuckle, B. S. (2007) “Current Issues in the Central Anatolian Neolithic” Central Texas Archaeological Society, February 11, Waco, TX.

#### **Conferences and Symposia (Organizer)**

(2017) Co-organizer of conference “Ancient Foodways: Integrative approaches to understanding subsistence and society in the past”. UNC-Chapel Hill, March 3-4.

(2014) Co-organizer for session “Food Provisioning in Complex Societies” at the International Council for Archaeozoology meeting, San Rafael, Argentina, September 23-24.

(2013) Organizer and chair of session “Into new landscapes: Subsistence adaptation and social change during the Neolithic expansion in central and western Anatolia”. *Human Development in Landscapes Workshop* Christian-Albrechts University, Kiel. April 18-21, Germany.

(2011) Organizer and Chair of Workshop “Neolithic Animal Economies in Central and western Anatolia”. Held at the Royal Museum of Natural History, Brussels, July 1, Belgium.

(2010) Co-Organized session entitled “Animals and Inequality in the Ancient World” at the Society for American Archaeology Annual Meeting, St. Louis.

(2006) Chair and co-organizer for session “Zooarchaeological contributions to reconstructing cultural systems” at the Society for American Archaeology Annual Meeting. April 28, San Juan, Puerto Rico.

### **Fieldwork & Programs**

Assistant Director of Çadır Höyük Archaeological Research Project, Turkey, 2009-present.

Zooarchaeologist at Köşk Hoyuk; Acemhöyük; Direkli Cave; Boğazköy (all in Turkey).

PI: “Central Anatolian Pastoralism Project”, 2004-present.

PI: “Traditions of Equid exploitation and domestication in ancient Anatolia”, 2013-2018.

Co-PI: “Subsistence change in pre-Colonial and early Colonial North Carolina”, 2015-present

### **Other Activities/Media:**

Cornell Institute of Archaeology and Material Studies Podcast. 3/17/2015:

<http://ciams.cornell.edu/2015/03/17/radiociams-ben-arbuckle-on-big-data-archaeology-and-neolithic-animal-economics/>

Interview with Carolina Week, UNC Student News on Animal Domestication, 3/3/2015:

<http://carolinaweek.org/individual-stories/exotic-meat-month/>

National Geographic Award for Research on Horse Domestication:

<https://www.baylor.edu/mediacommunications/news.php?action=story&story=94649>

Baylor Lariat Article 8/31/2011: <http://baylorlariat.com/2011/08/31/archaeology-professor-awarded-research-grant/>

### **f) Grants**

#### **Fellowships/Awards:**

*External:*

2015-2017 National Science Foundation (BCS-1450633) D. Hutchinson, M. Scarry, B.S. Arbuckle “Cultural accommodation and change in the North Carolina Piedmont”

2014-2016 National Science Foundation (BCS-1311551) “Strategies of Equid exploitation and Horse domestication in ancient Turkey”

2012 Kansa, E., S. Whitcher Kansa, B. S. Arbuckle. Encyclopedia of Life Computable Data Challenge “Exploring Biogeography of early domestic animals using Linked Open Data”

- 2011 National Geographic Society, "Testing the Anatolian Origins Hypothesis: Horses in Anatolian Prehistory,"
- 2011 American Research Institute in Turkey
- 2005 National Science Foundation Doctoral Dissertation Improvement Grant (BCS-0530699)
- 2005 Cora Dubois Charitable Trust Fellowship (declined)
- 2004 American Research Institute in Turkey/US Department of State Dissertation Research Fellowship
- 2003 American School for Prehistoric Research Award
- 2002 American School for Prehistoric Research award for field research