

Fall 2015
ANG 6930 – Proseminar
Biological and Archaeological Anthropology
Department of Anthropology, University of Florida

Time: Mondays – 10:40 to 1:40 pm (Periods 4-6)

Place: Turlington Hall – Room 2346 (Week 1 only)
Turlington Hall – Room B304 (Weeks 2 – 16)

- **Course is coordinated through e-Learning in Canvas (<https://lss.at.ufl.edu/>)**

Instructors: Dr. John Krigbaum, Associate Professor
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Dr. James Davidson, Associate Professor
Office: B134 Turlington Hall Basement
Hours: Mondays 3:00 – 5:00 pm; Tuesdays: 1:00 – 3:00 pm
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Objectives, Expectations, & Grading

Anthropology is a holistic discipline. As such, anthropologists attempt to view humans, their activities, and their cultural and biological history in as broad a context as possible. This proseminar is designed to introduce Anthropology graduate students to the fields of Biological Anthropology and Archaeological Anthropology. Lectures will provide background information and thematic context for key issues in these fields. John Krigbaum will lead the first module in Biological Anthropology and James Davidson will lead the second module in Anthropological Archaeology. Readings from the primary literature, class discussion, and writing assignments will focus on the big questions and contemporary issues in these two subfields. Such topics tackled should resonate across subfields and student interests and are intended to provide students of varied experience in anthropology to critically assess the state of the field. “Hands on” review of the physical remains and material culture may also be presented in several classes over the course of the semester.

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

**** TURN OFF CELL PHONES IN CLASS ****

Required Textbooks:

Biological Section:

Gamble, Clive, John Gowlett, & Robin Dunbar (2014) *Thinking Big: How the Evolution of Social Life Shaped the Human Mind*. London: Thames & Hudson, 224 p.

Lieberman, Daniel E. (2013) *The Story of the Human Body*. New York: Vintage Books, 460 p.

Shubin, Neil (2009) *Your Inner Fish: A Journey into the 3.5-Billion-Year History of the Human Body*. New York: Pantheon, 237 p.

Social Media (Biological):

BioAnthropology News – Public Group coordinated by Susan Guise Sheridan (Univ. Notre Dame) and posted on Facebook.

The Mermaid's Tale: A conversation about biological complexity and evolution, and the societal aspects of science. (Ken Weiss & Co.) <http://ecodevoevo.blogspot.com/>

Textbook Primers in Biological Anthropology

How Humans Evolved (Webbook): <http://www.wwnorton.com/college/anthro/bioanth/>

Rothman, J. Gonder, K., and Dunsworth, H. (2014) Biological Anthropology: The Nature Education Knowledge Project. <http://www.nature.com/scitable/knowledge/biological-anthropology-98009799>

The above URL is a key resource. Here, 'Biological Anthropology' is divided into three principal sections: 1) Scientific Underpinnings, 2) The Living Primates, and 3) Human Fossil Record.

Archaeology Section:

O'Brien, Michael. J., R. Lee Lyman, and Michael Brian Schiffer
2005 *Archaeology as a Process*. The University of Utah Press, Salt Lake City.

Trigger, Bruce G.
2006 *A History of Archaeological Thought* (Second Edition). Cambridge University Press.

Grading & Student Evaluation (for Biological & Archaeological sections).

Take Home Exam (N=2)	(25%)
Critical Essays (N=8)	(40%; 5% each)
Attendance & Participation	(15%)
Team Discussion/In Class Participation (N=2)	(20%)

Percentile breakdown:

A	(93-100%)	C	(73-77%)
A-	(90-92%)	C-	(70-72%)
B+	(88-89%)	D+	(68-69%)
B	(83-87%)	D	(63-67%)
B-	(80-82%)	D-	(60-62%)
C+	(78-79%)	E	(59% or below)

Take Home Exams

For each module there will be one take home exam. These two exams combined will constitute 50% of your grade for this course. Format of each exam is at the discretion of the Instructor.

Written Assignments

Writing assignments or critical essays will be assigned and due at the beginning of class the following week. These written assignments are intended to both precede discussion of that week's readings as well as re-emphasize key points through lecture and assigned readings. This will ensure reading of required materials, and provide a baseline for each student to actively engage in discussion. Written work should be double-spaced, 12-point font, 2-3 pages in length (1200 words maximum) and will be focused on a particular point, idea, and/or theme presented. Late papers will be docked five points and only accepted no later than the next class meeting, that week.

Attendance & Participation

Attendance and class participation is mandatory.

Team Discussion

Each week, teams of two or three students will lead class discussion. Each group will be expected to meet outside of class to organize readings and to prepare a list of questions/points of discussion. As this constitutes a substantial portion of the grade, each team member will be expected to participate and have an active voice.

Academic Honesty:

The University reminds every student of the implied pledge of Academic Honesty: "on any work submitted for credit the student has neither received nor given unauthorized aid."

THIS REFERS TO CHEATING AND PLAGIARISM, WHICH WILL NOT BE TOLERATED IN THIS CLASS

Consult the Student Guide at www.dso.ufl.edu/stg/ for further information. To avoid plagiarism, you must give credit whenever you use another person's idea, opinion, or theory; any facts, statistics, graphs, drawings (any pieces of information) that are not common knowledge; quotations of another person's actual spoken or written words; or paraphrase of another person's spoken or written words.

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Week 1 (class: Aug. 24)

Introduction

Week 2 (class: Aug. 31)

Biological Anthropology in Historical Perspective

Discussion Theme: Science & Philosophy

Writing Assignment over readings for this week (Due in class, Sept. 14)

Week 3 (class: Sept. 7)

NO CLASS – LABOR DAY

Week 4 (class: Sept. 14)

Origins: The Known, the Unknown and the Unknowable

Discussion Theme: Origins & Missing Links

Critical Essay #1 Due (In Class).

Writing Assignment over readings for this week (Due in class, Sept. 21)

Week 5 (class: Sept. 21)

Early Hominins & Paleoanthropology

Discussion Theme: Pair Bonds & Bipedalism

Critical Essay #2 Due (In Class).

Week 6 (class: Sept. 28)

Later Hominins & Life History

Discussion Theme: Brains & Guts

Writing Assignment over readings for this week (Due in class, Oct. 5)

Week 7 (class: Oct. 5)

Modernity

Discussion Theme: Domestication & Cooperation

Critical Essay #3 Due (In Class).

Week 8 (class: Oct. 12)

Health & Disease in Evolutionary Context

Discussion Theme: Health & Stress

Writing Assignment over readings for this week (Due in class Oct. 19)

Week 9 (class: Oct. 19)

Bioarchaeology

Week 10 (class: Oct. 26)

Politics and Ethical Concerns in Biological and Archaeological Anthropology

Critical Essay #4 Due (In Class).

Week 11 (class: Nov. 2)

Paradigms and Schools of Archaeology

Week 12 (class: Nov. 9)

Material Culture

Writing Assignment over readings for this week

Week 13 (class: Nov. 16)

Time

Writing Assignment over readings for this week

Week 14 (class: Nov. 23)

Space and Place (natural and cultural landscapes, ecology, adaptation)

Writing Assignment over readings for this week

Week 15 (class: Nov. 30)

Subsistence (diet, economies)

Critical Essay #8 Due (In Class).

Writing Assignment over readings for this week

Week 16 (class: Dec. 7)

Cosmology, Spirituality and Religion

READINGS BY WEEK

Week 1 (class: Aug. 24)

Introduction

Week 2 (class: Aug. 31)

Biological Anthropology in Historical Perspective

Reading: Chs. 1 & 2 Gamble et al.; Intro & Ch. 1 Lieberman; Chs. 1 & 2 Shubin; & required articles

Discussion Theme: Science & Philosophy

Darwin, C. 1859. *On the Origin of Species by means of Natural Selection*. Murray, London. Ch. 3:60-69, Ch. 4:80-81, 87-90.

Darwin, C. 1871. *The Descent of Man, and Selection in Relation to Sex*. Murray, London, Ch. 3: 67-73, 81-85, 100-102.

Dobzhansky, T. 1973. Nothing in biology makes sense except in the light of evolution. *American Biology Teacher* 35:125-129.

Fuentes, A. 2010. The new biological anthropology: Bringing Washburn's new physical anthropology into 2010 and beyond—The 2008 AAPA Luncheon Lecture. *Yearbook of Physical Anthropology* 53:2-12.

MacKinnon, K.C. 2013. Contemporary biological anthropology in 2013: Integrative, connected, and relevant. *American Anthropologist* 116:352-365.

Washburn, S.L. (1951) The new physical anthropology. Transactions of the New York Academy of Sciences, Series II. 13:298-304.

Week 3 (class: Sept. 7)

NO CLASS – LABOR DAY

Week 4 (class: Sept. 14)

Critical Essay #1 Due (In Class).

Reading: Chs. 3 & 4 Shubin; & required articles

Discussion Theme: Origins & Missing Links

Anthropology & Antievolutionism

Marks, J. (2012) Why be against Darwin? Creationism, racism, and the roots of anthropology. *Yearbook of Physical Anthropology* 55:95-104.

Schultz, E. (2009) Resolving the anti-antievolutionism dilemma: A brief for relational evolutionary thinking in anthropology. *American Anthropologist* 111:224–237. DOI: [10.1111/j.1548-1433.2009.01115.x](https://doi.org/10.1111/j.1548-1433.2009.01115.x)

Bigfoot

Sykes, B.C., Mullis, R.A., Hagenuller, C., Melton, T.W., and Sartori, M. (2014) Genetic analysis of hair samples attributed to yeti, bigfoot and other anomalous primates. *Proceedings of the Royal Society, Biological Sciences* 281:20140161.

Zimmer, C. (2014) Why we can't rule out bigfoot. *Nautilus* 16.

<http://nautil.us/issue/16/nothingness/why-we-cant-rule-out-bigfoot>

Aquatic Apes

Foley, R. and Lahr, M.M. 2014. The role of "the aquatic" in human evolution:

Constraining the aquatic ape hypothesis. *Evolutionary Anthropology* 23:56-59.

Gee, H. 2013. Aquatic apes are the stuff of creationism, not evolution. *The Guardian* 7

May 2013. [http://www.theguardian.com/science/occams-](http://www.theguardian.com/science/occams-corner/2013/may/07/aquatic-apes-creationism-evolution)

[corner/2013/may/07/aquatic-apes-creationism-evolution](http://www.theguardian.com/science/occams-corner/2013/may/07/aquatic-apes-creationism-evolution)

Langdon, J.H. 1997. Umbrella hypotheses and parsimony in human evolution: a critique of the Aquatic Ape Hypothesis. *Journal of Human Evolution* 33:479-494.

McKie, R. 2013. Big brains, no fur, sinuses ... are these clues to our ancestors' lives as 'aquatic apes'? *The Guardian* 27 April 2013.

<http://www.theguardian.com/science/2013/apr/27/aquatic-ape-theory-primate-evolution>

Moore, Jim. Aquatic Ape Theory: Sink or Swim? <http://www.aquaticape.org/index.html>

Rae, T.C. and Koppe, T. (2014) Sinuses and flotation: Does the aquatic ape theory hold water? *Evolutionary Anthropology* 23:60-64.

Wong, Kate. 2013. Space Ape Parody Shows Why Aquatic Ape Theory Is All Wet.

Scientific American Blog entry:

<http://blogs.scientificamerican.com/observations/2013/04/30/space-ape-parody-shows-why-aquatic-ape-theory-is-all-wet/>

Higher Taxa

Cartmill, M. 2012. Primate origins, human origins, and the end of higher taxa.

Evolutionary Anthropology 21:208-220.

Cartmill, M. 2013. The end of higher taxa: A reply to Tattersall. *Evolutionary*

Anthropology 22:172-173.

Tattersall, I. 2012. Higher taxa: An alternative perspective. *Evolutionary Anthropology* 21:221-223.

Week 5 (class: Sept. 21)

Critical Essay #2 Due (In Class).

Reading: Chs. 3 & 4 Gamble et al.; Ch. 2-4 Lieberman; Chs. 5 & 6 Shubin; & required articles

Discussion Theme: Pair Bonds & Bipedalism

Monogamy

Chapais, Bernard. 2013. Monogamy, strongly bonded groups, and the evolution of human social structure. *Evolutionary Anthropology* 22:52-65.

Edgar, Blake. 2014. The Power of Two. *Scientific American*

Jolly, C.J. (1970) The seed-eaters: A new model of hominid differentiation based on a baboon analogy. *Man* 5:5-26.

Jolly, C.J. (2001) A proper study for mankind: Analogies from the papionin monkeys and their implications for human evolution. *Yearbook of Physical Anthropology* 44:177-204.

Lovejoy, C.O. (1981) The origin of man. *Science* 211:341-350.

- Lovejoy, C.O. (2009) Reexamining human origins in light of *Ardipithecus ramidus*. *Science* 326:74. DOI 10.1126/science.1175834.
- Lukas D. and Clutton-Brock T.H. 2013. The evolution of social monogamy in mammals. *Science* 341:526-530.
- Opie Christopher, Quentin D. Atkinson, Robin I.M. Dunbar and Susanne Shultz. 2013. Male infanticide leads to social monogamy in primates. *Proceedings of the National Academy of Sciences* 110:13328-13332.
- Whiten, A., McGrew, W.C., Aiello, L.C. et al. (2010) Studying extant species to model our past. *Science* 327:410. DOI: [10.1126/science.327.5964.410-a](https://doi.org/10.1126/science.327.5964.410-a)
- Sample, Ian. 2013. The mystery of monogamy: scientists claim to have the answer. The Guardian 29 July 2013. <http://www.theguardian.com/science/2013/jul/29/mystery-of-monogamy-scientists-report>
- Shreeve, Jamie. 2010. The Evolutionary Road. *National Geographic* July 2010 pp. 34-67.

Week 6 (class: Sept. 28)

Reading: Ch. 5 Gamble et al.; Ch. 5-6 Lieberman; Chs. 7 & 8 Shubin; & required articles
Discussion Theme: Brains & Guts

- Aiello L. and Wheeler P. 1995. The expensive-tissue hypothesis: The brain and the digestive system in human and primate evolution. *Current Anthropology* 36:199-221.
- Antón, S.C., Potts, R., and Aiello, L.C. 2014. Evolution of early *Homo*: An integrated biological perspective. *Science* 345:1236828.
- Isler, K. and Van Schaik, C.P. (2014) How humans evolved large brains: Comparative evidence. *Evolutionary Anthropology* 23:65-75.
- Potts, R. 2012. Evolution and Environmental Change in Early Human Prehistory. *Annual Review of Anthropology* 41:151-167.
- Wells, J.C.K. (2012) Ecological volatility and human evolution: A novel perspective on life history and reproductive strategy. *Evolutionary Anthropology* 21:277-288.
- Hawkes K. and Coxworth, J.E. 2013. Grandmothers and the evolution of human longevity: A review of findings and future directions. *Evolutionary Anthropology* 22:294-302.
- Wrangham, R. and Carmody, R. 2010. Human adaptation to the control of fire. *Evolutionary Anthropology* 19:187-199.

Week 7 (class: Oct. 5)

Critical Essay #3 Due (In Class).

Reading: Ch. 6 Gamble et al.; Ch. 7-9 Lieberman; Chs. 8 & 9 Shubin; & required articles
Discussion Theme: Domestication & Cooperation

- Cieri, R.L., Churchill, S.E., Franciscus, R.G., Tan, J., and Hare, B. (2014) Craniofacial feminization, social tolerance, and the origins of behavioral modernity. *Current Anthropology* 55:419-443.
- de Waal, F.B.M. 2012. The antiquity of empathy. *Science* 336:874-876.
- Henn, B.M., Cavalli-Sforza, L.L., and Feldman, M.W. 2012. The great human expansion. *Proceedings of the National Academy of Sciences* 109:17758-17764.

- Hill K., Barton, M., and Hurtado, A.M.. 2009. The emergence of human uniqueness: characters underlying behavioral modernity. *Evolutionary Anthropology* 18:187-200.
- Scott, Isabel M. et al. 2014. Human preferences for sexually dimorphic faces may be evolutionarily novel. *Proceedings of the National Academy of Sciences* 111:14388-14393.
- Tattersall, I. 2009. Human origins: Out of Africa. *Proceedings of the National Academy of Sciences* 106:16018-16021.

Week 8 (class: Oct. 12)

Reading: Ch. 7 Gamble et al.; Ch. 10-13 Lieberman; Chs. 10 & 11 Shubin; & required articles

Discussion Theme: Health & Stress

- Gibbons A. 2014. Shedding Light on Skin Color. *Nature* 346:934-936.
- Goodman, A.H. 2013. Bringing Culture into Human Biology and Biology Back into Anthropology—The 2007 AAA Presidential Address. *American Anthropologist* 115:359–373.
- Hawks, J. 2014. Still Evolving (After All These Years) *Scientific American*.
- Sapolsky, R.M. (2006) A natural history of peace. *Financial Affairs* 85:104-120.

Week 9 (class: Oct. 19)

Critical Essay #4 Due (In Class).

Bioarchaeology

To be posted.

Week 10 (class: Oct. 26)

Since you do not have to write a paper this week, spend the time you would be doing that reading more these case studies carefully, and reading ahead for next week.

Focus on issues relating to ethical codes of conduct as drafted by the SAA and the AAPA (you should know what those stand for). Issues of descendant community rights and repatriation (e.g., NAGPRA), amateurs, hoaxes, etc., will all be touched upon.

Ethics Codes:

Anonymous

1961 Four Statements for Archaeology. (Report of the Committee on Ethics and Standards). *American Antiquity* 27(2):137-138.

Anonymous

1996 Society for American Archaeology Principles of Archaeological Ethics. *American Antiquity* 61(3):451-452.

Anonymous

2003 American Association of Physical Anthropologists. www.physanth.org

Lynott, Mark J.

1997 Ethical Principles and Archaeological Practice: Development of an Ethics Policy. *American Antiquity* 62(4):589-599.

Descendant communities/NAGPRA

Kakaliouras, Ann M.

2012 An Anthropology of Repatriation: Contemporary Physical Anthropological and Native American Ontologies of Practice. *Current Anthropology* 53 (S5):S210-S221.

Rose, Jerome C., Thomas J. Green, and Victoria D. Green

1996 Nagpra is Forever: Osteology and the Repatriation of Skeletons. *Annual Review of Anthropology* 25:81-103.

Owsley, Douglas W. and Richard L. Jantz

2001 Archaeological politics and public interest in paleoamerican studies: lessons from gordon creek woman and kennewick man. *American Antiquity* 66(4):565-576.

Watkins, Joe

2004 Becoming American or Becoming Indian? NAGPRA, Kennewick, and cultural affiliation. *Journal of Social Archaeology* 4(1):60-80.

Bruning, Susan B.

2006 Complex Legal Legacies: The Native American Graves Protection and Repatriation Act, Scientific Study, and Kennewick Man. *American Antiquity* 71(3):501-521.

McDavid, Carol

1997 Descendants, Decisions, and Power: The Public Interpretation of the Archaeology of the Levi Jordan Plantation. *Historical Archaeology* 31(3):114-131.

Supplementary Readings (not required, but useful; strongly recommended for discussion leaders):

Bentzen, Conrad B.

1942 An Inexpensive Method of Recovering Skeletal Material for Museum Displays. *American Antiquity* 8(2):176-178.

Preston, Douglas

1995 The Mystery of Sandia Cave. *The New Yorker* (June 12th).

Franklin, Maria

1997 "Power To the People": Sociopolitics and the Archaeology of Black Americans. *Historical Archaeology* 31(3):36-50.

Derry, Linda

1997 Pre-Emancipation Archaeology: Does It Play in Selma, Alabama. *Historical Archaeology* 31(3).

Mallouf, Robert J.

1996 An Unraveling Rope: The Looting of America's Past. *American Indian Quarterly* 20(2):197-208.

Week 11 (class: Nov. 2)

Paradigms and Schools of Archaeology

There is no essay/paper this week, so take some care reading these case studies carefully, and reading ahead for next week.

Text Excerpts:

Read Introduction, Chapters 1 and 2 (pp. 1-66) of O'Brien et al. 2005 (*Archaeology as a Process*)

Read Chapters 1 and 2 (pp. 1-79) of Trigger 2006 (*A History of Archaeological Thought*)

Processual (New Archaeology):

Binford, Lewis R.

1962 Archaeology as Anthropology. *American Antiquity* 28(2):217-225.

Binford, Lewis R.

1965 Archaeological Systematics and the Study of Cultural Process. *American Antiquity* 31(2:1):203-210.

Reid, J. Jefferson, William L. Rathje, and Michael B. Schiffer

1974 Expanding Archaeology. *American Antiquity* 39(1):125-126.

Raab, Mark L. and Albert C. Goodyear

1984 Middle-Range Theory in Archaeology: A Critical Review of Origins and Applications. *American Antiquity* 49(2):255-268.

Postprocesual/Postmodern/Marxist:

Leone, Mark P, Parker B. Potter, and Paul A. Shackel

1987 Toward a Critical Archaeology. *Current Anthropology* 28(3):283-302.

Hodder, Ian

1991 Interpretative Archaeology and Its Role. *American Antiquity* 56(1):7-18.

Hegmon, Michelle

2003 Setting Theoretical Egos Aside: Issues and Theory in North American Archaeology. *American Antiquity* 68:213-243.

Moss, Madonna L.

2005 Rifts in the Theoretical Landscape of Archaeology in the United States: A Comment on Hegmon and Watkins. *American Antiquity* 70 (3):581-587.

McGuire, Randall H., LouAnn Wurst, and Marie O'Donovan

2005 Probing Praxis in Archaeology: The Last 80 Years. *Rethinking Marxism* 17(3):355-372.

Critiques/Defenses/Comments:

Flannery, Kent V.

1982 The Golden Marshalltown. *American Anthropologist* 84 (2):265-278.

Supplementary Readings (not required, but useful; strongly recommended for discussion leaders):

Taylor, Walter W.

1972 Old Wine and New Skins: A Contemporary Parable. In *Contemporary Archaeology: A guide to Theory and Contributions*, edited by Mark P. Leone, pp. 28-33. Southern Illinois University Press, Carbondale.

Meskel, Lynn

2002 The Intersections of Identity and Politics in Archaeology. *Annual Review of Anthropology* 31:279-301.

Watson, Richard A.

1990 Ozymandias, King of Kings: Postprocessual Radical Archaeology as Critique. *American Antiquity* 55(4):673-689.

Krieger, Alex D.

1940 "The Basic Needs of Archaeology" – A Commentary. *American Antiquity* 42 (3:1):543-546.

Taylor, Walter W.

1948 *A Study of Archaeology*. Southern Illinois University.

Week 12 (class: Nov. 9)

Material Culture

Writing assignment this week

(2 pages, double-spaced. Proper citation of work required):

Question:

How we structure or make sense of material culture is terribly important, but is the Type/Variety system the best means of imposing order on artifacts?

Are types real? How do Kreiger, Ford, Gifford, and the views expressed in the O'Brien, Lyman, and Schiffer text agree or disagree in regards to their views on artifact typologies? Should symbols be considered in artifact typologies?

Text Excerpts:

Read Chapter 3 and 4 (pp. 80-165) of Trigger 2006 (*A History of Archaeological Thought*)

Read Chapters 3 and 4 (pp. 67-120) of O'Brien et al. 2005 (*Archaeology as a Process*)

Typology/Issues of Classification:

Krieger, Alex D.

1944 The Typological Concept. *American Antiquity* 9(3):271-288.

Ford, James A. and Julian H. Stewart

1954 The Type Concept Revisited. *American Anthropologist* 56(1):42-57.

Gifford, James C.

1960 The Type Variety Method of Ceramic Classification as an Indicator of Cultural Phenomena. *American Antiquity* 25(3):341-347.

Koerper, Henry C. and E. Gary Stickel

1980 Cultural Drift: A Primary Process of Culture Change. *Journal of Anthropological Research* 36(4):463-469.

Whittaker, John C., Douglas Caulkins, and Kathryn A. Kamp

1998 Evaluating Consistency in Typology and Classification. *Journal of Archaeological Method and Theory* 5(2):129-164.

Nature of Artifacts:

Robb, John E.

1998 The Archaeology of Symbols. *Annual Review of Anthropology* 27:329-346.

Gosden, Chris and Yvonne Marshall

1999 The Cultural Biography of Objects. *World Archaeology* 31(2):169-178.

Just what the Hell is that Thing? Case Study of a single artifact type --

Mushroom Stones

Borhegyi, Stephen F.

1961 Miniature Mushroom Stones from Guatemala. *American Antiquity* 26(4):498-504.

Borhegyi, Stephen F.

1964 Pre-Columbian Pottery Mushrooms from Mesoamerica. *American Antiquity* 28(3):328-338.

Kohler, Ulrich

1976 Mushrooms, Drugs, and Potters: A New Approach to the Function of Precolumbian Mesoamerican Mushroom Stones. *American Antiquity* 41(2):145-153.

Cogged Stones

Eberhart, Hal

1961 The Cogged Stones of Southern California. *American Antiquity* 26(3):361-370.

Apodaca, Paul

2001 Cactus Stones: Symbolism and Representation in Southern California and Seri Indigenous Folk Art and Artifacts. *Journal of California and Great Basin Anthropology* 23(2):215-228.

Supplementary Readings (not required, but useful; recommended for discussion leaders):

Kidder, M. A. and A. V. Kidder

1917 Notes on the Pottery of Pecos. *American Anthropologist* (new series) 19(3):325-360. (*DON'T GET BOGGED DOWN IN DETAILS HERE; JUST BROAD IDEAS*)

McGuire, Joseph D.

1896 Classification and Development of Primitive Implements. *American Anthropologist* 9(7):227-236.

Rathje, W. L., W. W. Hughes, D. C. Wilson, M. K. Tani, G. H. Archer, R. G. Hunt, and T. W. Jones

1992 The Archaeology of Contemporary Landfills. *American Antiquity* 57(3):437-447.

Ford Spaulding Debate:

Spaulding, Albert C.

1953 Statistical Techniques for the Discovery of Artifact Types. *American Antiquity* 18:305-13.

Ford, James A.

1954b Spaulding's Review of Ford. *American Anthropologist* 56:109-112.

Spaulding, Albert C.

1954 Reply (to Ford). *American Anthropologist* 56:112-14.

Ford, James A.

1961 In Favor of Simple Typology. *American Antiquity* 27:113-14.

Steward, Julian H.

1954 Types of Types. *American Anthropologist* 56:54-57.

Rouse, Irving R.

1960 The Classification of Artifacts in Archaeology. *American Antiquity* 25:313-23.

WEEK 13 (class: Nov. 16)

Time

Writing assignment this week

(2 pages, double-spaced. Proper citation of work required):

Clearly Archaeology is all about time, but whose time? Were/Are the concepts of time (and implied chronologies) different among the culture historians, processualists, and post processualists? What distinctions can be drawn from diachronic versus synchronic views of time?

How can we reconcile chronometric dating techniques with Richard Bradley's view of ritual time, and is there a false sense of security in chronometric dating that may suggest a precision that actually could be illusory?

Text Excerpts:

Read Chapters 5 and 6 (pp. 166-313) of Trigger 2006 (*A History of Archaeological Thought*)

Read Chapters 5 and 6 (pp. 121-177) of O'Brien et al. 2005 (*Archaeology as a Process*)

Relative and Chronometric Dating:

Ford, James A.

1938 A Chronological Method Applicable to the Southeast. *American Antiquity* 3(3):260-264.

Rowe, John Howland

1961 Stratigraphy and Seriation. *American Antiquity* 26(3):324-330.

Haury, Emil W.

1935 Tree Rings: The Archaeologist's Time Piece. *American Antiquity* 1(2):98-108.

Merrill, Robert S.

1948 A Progress Report on the Dating of Archaeological Sites by Means of Radioactive Elements. *American Antiquity* 13(4):281-286.

Application of Chronology/ Historic Case Studies:

Nelson, N. C.

1916 Chronology of the Tanos Ruins, New Mexico. *American Anthropologist* (new series) 18(2):159-180. (READ FOR HISTORICAL BACKGROUND ONLY)

Krieger, Alex D.

1947 The Eastward Extension of Puebloan Datings toward Cultures of the Mississippi Valley. *American Antiquity* 12(3):141-148.

Olsen, Alan P.

1962 A History of the Phase Concept in the Southwest. *American Antiquity* 27(4):457-472.

Concepts of Time:

Meltzer, David J.

2005 The Seventy-Year Itch: Controversies over Human Antiquity and Their Resolution. *Journal of Anthropological Research* 61(4):433-468.

Bailey, G. N.

1983 Concepts of Time in Quaternary Prehistory. *Annual Review of Anthropology* 12:165-192.

Bradley, Richard

1991 Ritual, Time and History. *World Archaeology* 23(2):209-219.

Foxhall, Lin

2000 The Running Sands of Time: Archaeology and the Short-Term. *World Archaeology* 31(3):484-498.

Supplementary Readings (not required, but useful; strongly recommended for discussion leaders):

Michaels, Joseph W.

1972 Dating Methods. *Annual Review of Anthropology* 1:113-126.

(USE THIS ARTICLE FOR REFERENCE ONLY -- do not get lost in details)

Nash, Stephen E.

2002 Archaeological Tree Ring Dating at the Millennium. *Journal of Archaeological Research* 10(3):243-275.

Harris, Edward C.

1979 The Laws of Archaeological Stratigraphy. *World Archaeology* 11(1):111-117.

WEEK 14 (class: Nov. 23)

Space and Place

Writing assignment this week

(2 pages, double-spaced. Proper citation of work required):

This week we move from issues of artifacts and resulting typologies, which directly determine site and regional chronologies, to analyses that apply these chronologies -- of how and where people lived in the past.

How do the authors this week grapple with such issues as: determining how long sites were occupied (given the still course grained chronologies we employ); deal with issues of assessing site contemporaneity in regional settlement patterns; and employing ethnographic data and modeling to infer past behavior in regard to site features, population totals in rooms, sites, and regions? Are environmental factors of overarching importance in detecting and understanding settlement patterns, or is this too mechanical and deterministic a view?

Text Excerpts:

Read Chapter 7 (pp. 314-385) of Trigger 2006 (*A History of Archaeological Thought*)

Read Chapter 7 (pp. 178-218) of O'Brien et al. 2005 (*Archaeology as a Process*)

Intrasite Studies:

Binford, Lewis R.

1967 Smudge Pits and Hide Smoking: The Use of Analogy in Archaeological Reasoning. *American Antiquity* 32(1):1-12.

Munson, Patrick J.

1969 Comments on Binford's "Smudge Pits and Hide Smoking: The Use of Analogy in Archaeological Reasoning." *American Antiquity* 34(1):83-85.

Hill, James N. and Richard H. Hevley

1968 Pollen at Broken K Pueblo: Some New Interpretations. *American Antiquity* 33(2):200-210.

Pauketat, Timothy R.

1989 Monitoring Mississippian Homestead Occupation Span and Economy Using Ceramic Refuse. *American Antiquity* 54(2):288-310.

Mobley-Tanaka, Jeannette L.

1997 Gender and Ritual Space during the Pithouse to Pueblo Transition: Subterranean Mealing Rooms in the North American Southwest. *American Antiquity* 62(3):437-448.

Hodder, Ian and Craig Cessford

2004 Daily Practice and Social Memory at Catalhoyuk. *American Antiquity* 69(1):17-40.

Settlement Pattern Studies/ Landscape Studies::

Fletcher, Roland

1986 Settlement Archaeology: World-Wide Comparisons. *World Archaeology* 18(1):59-83.

Fleming, Andrew

2006 Post-Processual Landscape Archaeology: A Critique. *Cambridge Archaeological Journal* 16(3):267-280.

Population studies:

Naroll, Raoul

1962 Floor Area and Settlement Population. *American Antiquity* 27(4):587-589.

Glassow, Michael A.

1967 Considerations in Estimating Prehistoric California Coastal Populations. *American Antiquity* 32(3):354-359.

Weissner, Polly

1974 A Functional Estimator of Population from Floor Area. *American Antiquity* 39(2):343-350.

Supplementary Readings (not required, but useful; strongly recommended for discussion leaders):

Anschuetz, Kurt F., Richard H. Wilshusen, and Cherie L. Scheick

2001 An Archaeology of Landscapes: Perspectives and Directions. *Journal of Archaeological Research* 9(2):157-211.

Trigger, Bruce G.
1967 Settlement Archaeology: Its Goals and Promise. *American Antiquity* 32(2):149-160.

Week 15 (class: Nov. 30)

Subsistence (diet, economies)

Writing assignment this week
(2 pages, double-spaced. Proper citation of work required).

Subsistence is a key concept in archaeology, and directly influences settlement patterns and other issues of land use. What are the kinds of inferences that can be made regarding past subsistence strategies and diet, and can/should different methodologies (e.g., pollen analysis, faunal remains) be combined? Is food always just food, or is it something more? How can subsistence data be used to extract information beyond simple nutrition (e.g., chronology, status, culture, ethnicity)?

Text Excerpts:

Read Chapter 8 (pp. 386-483) of Trigger 2006 (*A History of Archaeological Thought*)

Read Chapter 8 (pp. 219-252) of O'Brien et al. 2005 (*Archaeology as a Process*)

Overviews and Methodologies:

Daly, Patricia

1969 Approaches to Faunal Analysis in Archaeology. *American Antiquity* 34(2):146-153.

DeFrance, Susan

2009 Zooarchaeology in Complex Societies: Political Economy, Status, and Ideology. *Journal of Archaeological Research* 17(2):105-168.

Riley, Thomas J., Richard Edging, and Jack Rossen

1990 Cultigens in Prehistoric Eastern North America: Changing Paradigms. *Current Anthropology* 31(5):525-541.

Smith, Bruce D.

2011 The Cultural Context of Plant Domestication in Eastern North America. *Current Anthropology* 52(S4):S471-S484.

Problems, Critiques, Case Studies

Begler, Elsie B. and Richard W. Keatinge

1979 Theoretical Goals and Methodological Realities: Problems in the Reconstruction of Prehistoric Subsistence Economies. *World Archaeology* 11(2):208-226.

Munson, Patrick J., Paul W. Parmalee, and Richard A. Yarnell
1971 Subsistence Ecology of Scovill, a Terminal Middle Woodland Village. *American Antiquity* 36(4):410-431.

Hart, John P., Hetty Jo Brumbach and Robert Lusteck
2007 Extending the Phytolith Evidence for Early Maize (*Zea mays* ssp. *mays*) and Squash (*Cucurbitasp.*) in Central New York. *American Antiquity* 72(3):563-583.

Wesson, Cameron B.
1999 Chiefly Power and Food Storage in Southeastern North America. *World Archaeology* 31(1):145-164.

Roth, Barbara J.
2006 The Role of Gender in the Adoption of Agriculture in the Southern Southwest. *Journal of Anthropological Research* 62(4):513-538.

Atalay, Sonya and Christine A. Hastorf
2006 Food, Meals, and Daily Activities: Food Habitus at Neolithic Çatalhöyük. *American Antiquity* 71(2):283-319.

Supplementary Readings (not required, but useful; recommended for discussion leaders):

Lyman, R. Lee
1979 Available Meat from Faunal Remains: A Consideration of Techniques. *American Antiquity* 44(3):536-546.

Hastorf, Christine
1999 Recent Research in Paleoethnobotany. *Journal of Archaeological Research* 7(1):55-103. (READ THIS ARTICLE FOR REFERENCE ONLY -- *do not get lost in details*)

Bryant, Vaughn M. Jr. and Stephen A. Hall
1993 Archaeological Palynology in the United States: A Critique. *American Antiquity* 58(2):277-286.

Franklin, Maria
2001 The Archaeological Dimensions of Soul Food: Interpreting Race, Culture and Afro-Virginian Identity. In *Race and the Archaeology of Identity*, edited by Charles Orser, Jr., University of Utah Press.

Berlin, G. Lennis, J. Richard Ambler, Richard H. Hevley, and Gerald G. Schaber
1977 Identification of a Sinagua Agricultural Field by Aerial Thermography, Soil Chemistry, Pollen/Plant Analysis, and Archaeology. *American Antiquity* 42(4):588-600

Week 16 (class: Dec. 7)

Cosmology, Spirituality and Religion

Text Excerpts:

Read Chapters 9 and 10 (pp. 484-548) of Trigger 2006 (*A History of Archaeological Thought*)

Read Chapter 9 (pp. 253-268) of O'Brien et al. 2005 (*Archaeology as a Process*)

Culotta, Elizabeth

2009 On the Origin of Religion. *Science* 326 (No. 5954):784-787.

Curry, Andrew

2008 Seeking the Roots of Ritual. *Science* 319 (No. 5861):278-280.

Barrett, John C.

1990 The Monumentality of Death: The Character of Early Bronze Age Mortuary Mounds in Southern Britain. *World Archaeology* 22(2):179-189.

Brown, James A.

1997 The Archaeology of Ancient Religion in the Eastern Woodlands. *Annual Review of Anthropology* 26:465-485.

Fennell, Christopher C.

2003 Group Identity, Individual Creativity, and Symbolic Generation in a BaKongo Diaspora. *International Journal of Historical Archaeology* 7(1):1-31.

Davidson, James M.

2004 Rituals Captured in Context and Time: Charm Use in North Dallas Freedman's Town (1869-1907), Dallas, Texas. *Historical Archaeology* 38(2):22-54.

Gazin-Schwartz, Amy

2001 Archaeology and Folklore of Material Culture, Ritual, and Everyday Life. *International Journal of Historical Archaeology* 5(4):263-280.

Howey, Meghan C. L. and John M. O'Shea

2006 Bear's Journey and the Study of Ritual in Archaeology. *American Antiquity* 71(2):261-282.

Mason, Ronald J.

2009 Bear's journey and the study of ritual in archaeology: some comments on Howey and O'Shea's Midewiwin paper. *American Antiquity* 74(1):189-192.