

Seminar in Zooarchaeology  
Anthropology 6186  
Spring 2022

Dr. Susan D. deFrance  
1350-B Turlington  
Office hours: Tuesday 11:30 -12:30 pm  
Wednesday 1:30 -3:00 p.m and by appt.

### **Seminar in Zooarchaeology**

This course will explore a variety of topics in contemporary zooarchaeology. The topics will be recent theoretical and methodological approaches to zooarchaeology with examples from across the globe.

The course organization will be seminar format with weekly student presentations/discussion, short written synopses, and discussion.

Grading will be based on weekly discussion and written synopses, and two 10-page research papers.

Written Work and Class Presentations:

1) Weekly Assignments:

- 1 Page of comments and questions over weekly readings (for your use)
- 1 single-spaced page review (critique, evaluation) of weekly readings (to hand in)

- 2) Each session students will be assigned one reading to present in detail (max. 15 minutes). Oral presentations will rotate between students depending on the number of reading assignments per week. All students must be prepared to discuss **all** the weekly readings at class time.

***Grading:***

**Class participation, attendance and discussion** **20%**

**Class presentations and weekly written work** **30%**

**2 Research papers – 10 pages (double-spaced)**

**First paper is due Wednesday, March 3 on an analytical topic covered in the first half of the class** **25%**

**Second paper is due Wednesday, April 20 on a topic related to topics covered in the second half of the class** **25%**

Topics:

## **January 5 – Class overview, organization, expectations**

### **January 12**

#### **History of the Discipline, Origins, Obstacles**

Albarella, Umberto

2017 Zooarchaeology in the twenty- first century: where we come from, where we are now, and where we are going. In *The Oxford Handbook of Zooarchaeology*, edited by Umberto Albarella, Hannah Russ, Kim Vickers, and Sarah Viner-Daniel, pp. 1-24.

O'Connor, T.

1996 A critical overview of archaeological animal bone studies *World Archaeology* 28(1), 5–19.

Robinson, Neil D.

1987 Zooarchaeology: Its History and Development. In *The Zooarchaeology of Eastern North America: History, Method and Theory, and Bibliography*. Tennessee Anthropological Association Misc. Papers No. 12, pp. 1-26.

Steele, T. E.

2015 The contribution of animal bones from archaeological sites: the past and future of zooarchaeology, *Journal of Archaeological Science* 56, 168–76.

Thomas, Kenneth D.

1996 Zooarchaeology: past, present and future *World Archaeology* 28(1):1-4.

## **January 19 – Overviews of Faunal Approaches, questions, and methods**

Crabtree, Pam

1990 Zooarchaeology and complex societies: Some uses of faunal analysis for the study of trade, status, and ethnicity. In Schiffer, M. B. (ed.), *Archaeological Method and Theory*, University of Arizona Press, Tucson, pp. 155-205.

deFrance, S. D.

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

Landon, David

2009 An Update on Zooarchaeology and Historical Archaeology: Progress and Prospects. *International Handbook of Historical Archaeology*. Edited by David Gaimster and Teresita Majewski, pp. 77-104.

MacKinnon, Michael

2018 Zooarchaeology method and practice in classical archaeology: interdisciplinary pathways forward. In *Zooarchaeology in Practice: Case Studies in Methodology and Interpretation in Archaeofaunal Analysis*, edited by C.M. Giovas and M.J. LeFebvre, pp. 269-90. New York: Springer.

Overton, N., & Hamilakis, Y.

2013 A manifesto for a social zooarchaeology. Swans and other beings in the Mesolithic. *Archaeological Dialogues*, 20(2), 111-136.

## **January 26 - Ethnoarchaeology and Experimental Archaeology – Beyond Taphonomy**

Lyman, R.

2012 Lewis R. Binford's Impact on Zooarchaeology. *Ethnoarchaeology*. 4. 55-78.

Lubinski, Patrick & Shaffer, B.S.

2010 Experimental zooarchaeology: Research directions and methods. Designing Experimental Research in Archaeology: Examining Technology through Production and Use. 241-257. In *Designing Experimental Research in Archaeology: Examining Technology through Production and Use*, edited by Jeffrey R. Ferguson, pp. 241-257. University Press of Colorado, Boulder. 2010.

Marshall, F.

1993 Food sharing and the faunal record. In Hudson, J. (ed.), *From Bones to Behavior: Ethnoarchaeological and Experimental Contributions to the Interpretation of Faunal Remains*, Occasional Paper of the Center for Archaeological Investigations, Southern Illinois University at Carbondale, pp. 228-246.

## **February 2 – Seasonality**

Carré, Matthieu, Laurent Klaric, Danièle Lavallée, Michèle Julien, Ilhem Bentaleb, Michel Fontugne, Orest Kawka

2009 Insights into early Holocene hunter-gatherer mobility on the Peruvian Southern Coast from mollusk gathering seasonality. *Journal of Archaeological Science* 36(5): 1173-1178

Monks, G. G.

1981 Seasonality Studies. *Advances in Archaeological Method and Theory* 4, 177–240.

Pike-Tay, A., Richard Cosgrove, Jillian Garvey

2009 Systematic seasonal land use by late Pleistocene Tasmanian Aborigines. *Journal of Archaeological Science* 35(9):2532-2544.

Sanger, Matthew C., Irvy R. Quitmyer, Carol E. Colaninno, Nicole Cannarozzi & Donna L. Ruhl  
2020 Multiple-Proxy Seasonality Indicators: An Integrative Approach to Assess Shell Midden Formations from Late Archaic Shell Rings in the Coastal Southeast North America, *The Journal of Island and Coastal Archaeology* 15:3, 333-363.

## **February 9 – Paleoenvironmental Studies – Zooarchaeological Data as Proxies**

Holland-Lulewicz, Isabelle and Victor D. Thompson

2021 Calusa socioecological histories and zooarchaeological indicators of environmental change during the Little Ice Age in southwestern Florida, USA, *Journal of Island and Coastal Archaeology*

Louchart, Antoine, *et al.* 2009 Taphonomic, avian, and small-vertebrate indicators of *Ardipithecus ramidus* Habitat. *Science* 67:87-93

Surge, D. and K. J. Walker

2005 Oxygen isotope composition of modern and archaeological otoliths from the estuarine hardhead catfish (*Ariopsis felis*) and their potential to record low-latitude climate change *Palaeogeography, Palaeoclimatology, Palaeoecology* 228(1-2): 179-191.

White, Tim *et al.*

2009 Macrovertebrate Paleontology and the Pliocene Habitat of *Ardipithecus ramidus*. *Science* 67:87-93

## **February 16 – Historical Ecology, Biodiversity, Applied Zooarchaeology**

Guiry EJ, Kennedy JR, O'Connell MT, Gray DR, Grant C, Szpak P.

2021 Early evidence for historical overfishing in the Gulf of Mexico. *Sci Adv.* 2021 Aug 4;7(32):eabh2525.

Lyman, R. L.

1996 Applied zooarchaeology: the relevance of faunal analysis to wildlife management, *World Archaeology* 28(1):110–25

McKechnie, Iain and Madonna L. Moss,

2016 Meta-analysis in zooarchaeology expands perspectives on Indigenous fisheries of the Northwest Coast of North America, *J. of Archaeological Science: Reports* 8:470-485,

Stahl, P.

2008 The contributions of zooarchaeology to historical ecology in the neotropics. *Quaternary International* 180(1):5-16.

Steadman, David W.

1995 Prehistoric extinctions of Pacific island birds: biodiversity meets zooarchaeology *Science* 267(5201):1123-1131.

## **February 23- Sustainability, Intensification**

Barrett, J. H.

2019 An environmental (pre)history of European fishing: Past and future archaeological contributions to sustainable fisheries. *J. Fish Biol.* 94, 1033–1044.

Porcasi, Judith F., Terry L. Jones, L. Mark Raab  
2000 Trans-Holocene Marine Mammal Exploitation on San Clemente Island, California: A Tragedy of the Commons Revisited *Journal of Anthropological Archaeology* 19(2):200-220.

Reitz, E. J.  
2004 Fishing down the Food Web: A Case Study from St. Augustine, Florida, USA. *American Antiquity* 69(1):63-83.

Zangrando, Atilio F.  
2009 Is fishing intensification a direct route to hunter-gatherer complexity? A Case study from the Beagle Channel region (Tierra del Fuego, southern South America). *World Archaeology* 41(4): 589–608.

## **March 2 –Domestication**

Bogaard, Amy, Robin Allaby, Benjamin S. Arbuckle, Robin Bendrey, Sarah Crowley, Thomas Cucchi, Tim Denham, Laurent Frantz, Dorian Fuller, Tom Gilbert, Elinor Karlsson, Aurélie Manin, Fiona Marshall, Natalie Mueller, Joris Peters, Charles Stépanoff, Alexander Weide & Greger Larson (  
2021 Reconsidering domestication from a process archaeology perspective, *World Archaeology*, DOI: [10.1080/00438243.2021.1954990](https://doi.org/10.1080/00438243.2021.1954990)

Larson, Greger Dolores R. Piperno, Robin G. Allaby, Michael D. Purugganan, et al.  
2014 Current perspectives and the future of domestication studies. *Proceedings of the National Academy of Sciences* Apr 2014, 111 (17) 6139-6146.

McKechnie, Iain, Madonna L. Moss, Susan J. Crockford,  
2020 Domestic dogs and wild canids on the Northwest Coast of North America: Animal husbandry in a region without agriculture? *J. of Anthropological Archaeology* 60:1-14.

Manin A, Corona-M E, Alexander M, Craig A, Thornton EK, Yang DY, Richards M, Speller CF.  
2018 Diversity of management strategies in Mesoamerican turkeys: archaeological, isotopic and genetic evidence. *R. Soc. open sci.* 5: 171613.

## **March 9 – spring break**

## **March 16 – Animals and Ritualism**

Flores-Blanco, Luis Alfredo J. Altamirano, Marco Villacorta, José M. Capriles, Flavio Estrada, Katia Herrera, Melchor Llosa, Eduardo Chávez, Carmela Alarcón,

2022 Reconstructing the sequence of an Inca Period (1470-1532 CE) camelid sacrifice at El Pacífico, Peru. *Journal of Archaeological Science: Reports* 41.

Oliver, J. R. and Y. Narganes Storde

2005 The zooarchaeological remains from Juan Miguel Cave and Finca de Dona Rosa, Barrio Caguana, Puerto Rico. In Tavares M. G. and M. Garcia Arevalo, M. (eds.), *Proceedings of the International Congress of Caribbean Archaeology series*. International Association for Caribbean Archaeology, Museo del Hombre Dominicano, Santo Domingo, pp. 228-242.

Rofes, J.

2004 Prehispanic guinea pig sacrifices in southern Peru, the case of el Yaral. In Jones O'Day, S., van Neer, S. W., and Ervynck, A. (eds.), *Behaviour Behind Bones: The Zooarchaeology of Ritual, Religion, Status, and Identity*, Oxbow Books, Oxford, pp. 95-100.

Yuan, J., and Flad, R.

2005 New zooarchaeological evidence for changes in Shang Dynasty animal sacrifice. *Journal of Anthropological Archaeology* 24: 252-270.

### **March 23 – Transformation – animal objects**

Capriles, José M., Calogero M. Santoro, Richard J. George, Eliana Flores Bedregal, Douglas J. Kennett, Logan Kistler, Francisco Rothhammer

2021 Pre-Columbian transregional captive rearing of Amazonian parrots in the Atacama Desert *Proceedings of the National Academy of Sciences* 118 (15)

Cooke, R.

2004 Observations on the religious content of animal imagery of the 'Gran Coelé' semiotic tradition of pre-Colombian Panama. In Jones O'Day, S., van Neer, S. W., and Ervynck, A. (eds.), *Behaviour Behind Bones: The Zooarchaeology of Ritual, Religion, Status, and Identity*. Oxbow Books, Oxford, pp. 114-127.

Fiore, D. and Zangrando, A. F.

2006 Painted fish, eaten fish: artistic and archaeofaunal representations in Tierra del Fuego, southern South America. *Journal of Anthropological Archaeology*, 25: 371–89.

McGrath, K., Rowsell, K., Gates St-Pierre, C. *et al.*

2019 Identifying Archaeological Bone via Non-Destructive ZooMS and the Materiality of Symbolic Expression: Examples from Iroquoian Bone Points. *Sci Rep* 9, 11027.

Russell, N., and McGowan, K. J.

2003 Dance of the cranes: Crane symbolism at Çatalhöyük and beyond. *Antiquity* 77: 445-455.

### **March 30 – Feasting**

Adams, R. L.

2004 An ethnoarchaeological study of feasting in Sulawesi, Indonesia. *Journal of Anthropological Archaeology* **23**: 56-78.

Crabtree, P. J.

2004 Ritual feasting in the Irish Iron Age: Re-examining the fauna from Dún Ailinne in light of contemporary archaeological theory. In Jones O'Day, S., van Neer, W., and Ervynck, A. (eds.), *Behaviour Behind Bones: The Zooarchaeology of Ritual, Religion, Status and Identity*, Oxbow Books, Oxford, pp. 62-65.

Dietler, M., and Hayden, B.

2001 Digesting the feast: Good to eat, good to drink, good to think. In Dietler, M., and Hayden, B. (eds.), *Feasts: Archaeological and Ethnographic Perspectives on Food, Politics, and Power*, Smithsonian Institution Press, Washington, DC, pp. 1-22.

Lev-Tov, J., and McGeough, K.

2007 Examining feasting in Late Bronze Age Syro-Palestine through ancient texts and bones. In Twiss, K. C. (ed.), *The Archaeology of Food and Identity*, Occasional Papers 34, Southern Illinois University Press, pp. 85-111.

Rowley-Conwy, Peter

2018 Zooarchaeology and the elusive feast: from performance to aftermath. *World Archaeology* 50:2, 221-241.

#### **April 6 – Status**

Cooke, R.

2004 Rich, poor, shaman, child: Animals, rank, and status in the 'Gran Coclé' culture area of pre-Columbian Panama. In Jones O'Day, S., van Neer, S. W., and Ervynck, A. (eds.), *Behaviour Behind Bones: The Zooarchaeology of Ritual, Religion, Status, and Identity*, Oxbow Books, Oxford, pp. 271-284.

Driver, J. C.

2004 Food, status and formation processes: A case study from Medieval England. In Jones O'Day, S., van Neer, S. W., and Ervynck, A. (eds.), *Behaviour Behind Bones: The Zooarch of Ritual, Religion, Status, and Identity*, Oxbow Books, Oxford, pp. 244-251.

Ervynck, A.

2004 *Orant, pugnans, laborans*. The diet of the three orders in the feudal society of medieval north-western Europe. In Jones O'Day, S., van Neer, S. W., and Ervynck, A. (eds.), *Behaviour Behind Bones: The Zooarchaeology of Ritual, Religion, Status, and Identity*. Oxbow Books, Oxford, pp. 215-223.

Ervynck, A., van Neer, W., Hüster-Plogmann, H., and Schibler, J.

2003 Beyond affluence: The zooarchaeology of luxury. *World Archaeology* **34**: 428-441.

#### **April 13 - Identity, Labor, Power**

deFrance, Susan D., and Craig A. Hanson

2008 Labor, Population Movement, and Food in Sixteenth-Century Ek Balam, Yucatán. *Latin American Antiquity* 19(3): 299–316.

Dooley, Tom, Manne, Tiina and Paterson, Alistair

2021 Power in Food on the Maritime Frontier: A Zooarchaeology of Enslaved Pearl Divers on Barrow Island, Western Australia. *International Journal of Historical Archaeology* 25:1-33.

Hesse, B.

1995 Husbandry, dietary taboos and the bones of the ancient Near East: zooarchaeology in the post-processual world. In Small, D. B. (ed.), *Methods in the Mediterranean: Historical and Archaeological Views on Texts and Archaeology*, E. J. Brill, Leiden, pp. 197-232.

Kennedy, J. R.

2017 The fresh and the salted: Chinese migrant fisheries engagement and trade in nineteenth-century North America. *J. Ethnobiol.* 37, 421–439.

Spielmann, Katherine A., Tiffany Clark, Diane Hawkey, Katharine Rainey, Suzanne K. Fish

2009 “...being weary, they had rebelled”: Pueblo subsistence and labor under Spanish colonialism. *Journal of Anthropological Archaeology* 28(1): 102-125.

Sugiyama, N., Fash, W., & France, C.

2019 Creating the Cosmos, Reifying Power: A Zooarchaeological Investigation of Corporal Animal Forms in the Copan Valley. *Cambridge Archaeological Journal*, 29(3), 407-426.

#### **April 20 – Integration, Novel Approaches**

Chepstow-Lusty, A. C., Frogley, M. R., Bauer, B. S., Leng, M. J., Cundy, A. B., Boessenkool, K. P., and Gioda, A.

2007 Evaluating socio-economic change in the Andes using oribatid mite abundances as indicators of domestic animal densities. *Journal of Archaeological Science* 34: 1178-1186.

Grillo, Katherine M., Julie Dunne, Fiona Marshall, Mary E. Prendergast, Emmanuelle Casanova, Agness O. Gidna, Anneke Janzen, Karega-Munene, Jennifer Keute, Audax Z. P. Mabulla, Peter Robertshaw, Toby Gillard, Caitlin Walton-Doyle, Helen L. Whelton, Kathleen Ryan, Richard P. Evershed

2020 Molecular and isotopic evidence for milk, meat, and plants in prehistoric eastern African herder food systems. *Proceedings of the National Academy of Sciences* 117 (18) 9793-9799.

Kennedy, J. Ryan, Leland Rogers, and Frederika A. Kaestle

2018 Ancient DNA Evidence for the Regional Trade of Bear Paws by Chinese Diaspora Communities in 19th-C Western N. America. *J. of Archaeological Science* 99:135–42.

Seetah, K.

2006 Multidisciplinary approach to Romano-British cattle butchery. In Maltby, M. (ed.), *Integrating Zooarchaeology*, Oxbow Books, Oxford, pp. 109-116.