

Zooarchaeology BEYOND FOOD 2nd Faunal Interest Group Symposium

University of Toronto
Online
March 19th to 20th, 2021



Keynote: T. Max Friesen, University of Toronto

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Land Acknowledgement

We wish to acknowledge this land on which the University of Toronto operates. For thousands of years it has been the traditional land of the Huron-Wendat, the Seneca, and most recently, the Mississaugas of the Credit River. Today, this meeting place is still the home to many Indigenous people from across Turtle Island and we are grateful to have the opportunity to work on this land.

The Land Acknowledgement is a formal statement recognizing the unique and enduring relationship that exists between Indigenous Peoples and their traditional territories. This statement was developed in consultation with First Nations House and its Elders Circle, some scholars in the field, and senior University officials. The statement is applicable to all three campuses—UTM, UTSC, and St. George—as well as the Koffler Scientific Reserve at Jokers Hill, the Institute for Aerospace Studies (UTIAS), and is available to all members of the University community for use at University events as appropriate.

For more information about Land Acknowledgements, visit the Indigenous Initiatives U of T "Land Acknowledgement" page, https://indigenous.utoronto.ca/about/land-acknowledgement/, or the University of Guelph video resource "Land Acknowledgements and Why They Matter," https://vimeo.com/517181293.

Welcome, Overview, and Howard G. Savage

Welcome to the second Faunal Interest Group (FIG) zooarchaeology symposium, hosted online by the Archaeology Centre and the Department of Anthropology at the University of Toronto, March 19th and 20th, 2021. The theme this year is Zooarchaeology BEYOND FOOD, meaning all the interactions between humans and other animals which are not just about eating, such as relationships, rituals, raw material, and more. We are also celebrating 50 years of zooarchaeology at the Howard G. Savage Faunal Archaeo-Osteology



Laboratory at University of Toronto, and this symposium pays tribute to the founder of the program, Dr. Howard G. Savage, with a *Stories about Howard* social.

Dr. Howard Gordon Savage (December 28, 1913–March 16, 1998) received his MD from the University of Toronto in 1937 and worked as a pediatrician from 1938 to 1969. He served in the Second World War as a Medical Officer with the Royal Canadian Air Force, from 1942 to 1945. For most of the 1960s, Dr. Savage worked with Jim Baillie, of the Department of Ornithology at the Royal Ontario Museum, helping to expand the collection of ornithological specimens. The work at the ROM led to his interest in osteozooarchaeology, and in 1969, Dr. Savage was hired as a Research Associate by the Department of Anthropology at University of Toronto. Thus began the creation of one of the largest and most diverse zooarchaeology collections in Canada, with a wide range of North American and exotic specimens, including Panthera leo, Panthera tigris, and several *Ursus*. The following year, Dr. Savage started teaching zooarchaeology, and in 1973, he taught the first of many ANT415: Faunal Archaeo-Osteology classes. Through Howard's dedication and commitment, and many years of students preparing their own specimens, the collection grew quickly. In 1979, the University designated the comparative collection as the Howard G. Savage Faunal Archaeo-Osteology Laboratory.

Many students passed through the faunal lab in the old South Borden Building, and several ultimately pursued careers in zooarchaeology. Many of these scholars continue to shape zooarchaeology today, with dozens of their students contributing to the discipline all over the world. Dr. Savage brought a deep love of learning about animals to the class and inspired many with his knowledge and good humour. He was also a festive individual, who enjoyed throwing Thanksgiving and Halloween celebrations in

the lab, with a roasted turkey processioned in with bagpipes. He remained in the lab until his retirement, in 1997, and today, Dr. Max Friesen (a student of Howard's) continues ANT415 in a new space, but with the same collection and many of the same teachings.

From this strong tradition of zooarchaeological research, scholarship, and training, the Faunal Interest Group was created in 2007 as a graduate-student initiative to provide a productive forum for discussion around research in zooarchaeology. We discuss new and old issues of zooarchaeological method and theory, host guest lecturers, and provide a casual and supportive arena for our group members to present and receive input on their own research. In 2017, we hosted our first FIG symposium, entitled Landscape Interaction and Zooarchaeology, and we subsequently published many of the conference papers in a 2019–2020 *Journal of Archaeological Science: Reports* Special Issue with the same title, https://www.sciencedirect.com/journal/journal-of-archaeological-science-reports/special-issue/10TT1MRXSK7, guest-edited by Adam Allentuck, Suzanne Needs-Howarth, Aleksa K. Alaica, Danielle Desmarais, and Stephen Rhodes.

We are fortunate to have even greater interest for this symposium; so much so that an extra day was added to accommodate the many submissions. If you're a zooarchaeologist, you know there is so much more to zooarchaeology than saying "What's for dinner?" and we wanted to provide a gathering where colleagues can share their research into the diverse range of human—non-human relationships that have been inferred from the past. The 26 papers have been loosely sorted into 7 sessions: Feasting and Aesthetics; Adaptations and Species Introductions; Shaping Bone and Forming Legacies; Animal Life Histories; Emerging Technologies; Beyond Food in the Wild; and Gender, Ritual, and Symbolism. On the first day we will have three sessions, followed by a talk from our keynote speaker, Dr. Max Friesen, who will also start off our socializing session, *Stories about Howard*. On the second day we will have the remaining four sessions, and Dr. Genevieve Dewar will moderate the final discussion and provide closing comments.

Additionally, FIG is putting together an *Academic Phylogeny of Howard G. Savage*, and we welcome colleagues to add names and information to our database during lunch break via Zoom, or by visiting

https://drive.google.com/file/d/1sQtdwXTqe1RJdzbHixjlAeGpnOrpFVuz/view?usp=sharing. This academic family tree will serve to better understand the impact of the Howard Savage legacy on wider zooarchaeological practice.

We welcome anyone interested in non-human animal research and understandings to attend any and all of the presentations and discussions over the two days, participate in the *Stories about Howard* social ... and **Have a Great Bone Day!**

Conference Procedures

This symposium will take place completely online using the platform of Zoom. Please click on the link you received after registering and follow the on-screen instructions. All presenters and attendees are free to join the meeting at any time. Presenters should arrive in advance of the start of their session and remain for its duration to ensure that any questions posed can be addressed in the discussion period. This symposium is **not recorded**, and it is **not permitted to record any session** as the appropriate permissions have not been obtained.

We ask that you identify yourself with a full name to ensure that you are properly admitted to the webinar and break-out room sessions. We also ask that you set your profile picture to something related to zooarchaeology, archaeology, or animals, thus making it easier for us to recognize the difference between those intending on joining the meeting and interlopers.

We ask that all audience members have their microphones on mute and deactivate their cameras during the presentations to save on bandwidth. However, participants are free to turn on their camera for questions after the presentation, and participants will be able to unmute to ask questions once they have been called upon after raising their "digital hand."

There are seven sessions, and each session is chaired by a moderator. All communication can be directed to this person by all presenters and attendees. In each session, presentations will be 12–15 minutes in length. If time is available, participants can pose questions posed at the end of the paper; if not, they can pose them in the discussion period for the session. We ask that all questions and discussions be approached in a constructive but supportive manner.

During the lunchbreaks we invite participants to share any names or information that can be added to the Howard G. Savage academic phylogeny tree. The Zoom platform will move to a general meeting to allow for break-out rooms and to easily collect information. The lunchbreak Zoom link will be sent to registrants on Thursday, March 18th. We ask you to log in with your cameras off and microphones muted unless you would like to engage in dialogue with others.

NOTE: All interactions are to be collegial. Any misconduct will result in any attendee being ejected from the meeting.

Important notice regarding times, time zones, and daylight savings time

Our schedule was developed by considering as many possible time zones as we could, to accommodate as many researchers as possible. Please note that daylight savings time will be in effect in Canada (except Saskatchewan, Yukon, and parts of Quebec, B.C., and Ontario) and the United States during the symposium, but it will not be in effect for any other country in the northern hemisphere; it varies in the Southern Hemisphere.

All times listed in this programmed reference Eastern Standard Time (EST). **Doors will open at 10:30 am EST** each day of the symposium. Please check your time zone in relation to EST to ensure you arrive on time (https://www.thetimezoneconverter.com/).

Contributors

Organizing Committee

Aleksa K. Alaica
Danii Desmarais
Dr. Radovan Kabatiar
Louis-Vincent Laperrière-Désorcy
Dr. Suzanne Needs-Howarth
Dr. Trevor Orchard
Dr. Katherine Patton
Stephen Rhodes
John Vandergugten
Fan Zhang

Moderators

Aleksa K. Alaica
Danii Desmarais
Dr. Genevieve Dewar
Courtneay Hopper
Dr. Trevor Orchard
Stephen Rhodes
John Vandergugten

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Archaeology Centre, University of Toronto
Department of Anthropology, University of Toronto

Symposium Schedule

Friday, March 19				
Time EST	Authors	Paper Title		
11:10 AM	Organizing Committee	Introduction and Land Acknowledgement (Danii Desmarais)		
	Session 1: Feasting Moderator: Dani			
11:30 AM	Abu B. Siddiq	Fear, Feast, Cult, and Taboo: Aurochs in Neolithic Anatolia		
11:45 AM	Freydis Ehrlich, Giedrė Piličiauskienė, Miglė Urbonaitė-Ubė, Eve Rannamäe	Multiple Ways to Use Eagles: A Case Study from the Castle of the Teutonic Order in Klaipėda, Lithuania (thirteenth–fourteenth century CE)		
12:00 PM	Selena Vitezović	Animal Beauty: Use of Skeletal Elements for Decorative Purposes in the Neolithic in Southeastern Europe		
12:15 PM	Discussion/Break			
	Session 2: Adaptations and Moderator: Court			
12:30 PM	Nayeli Jimenez Cano	Coastal Exploitation in the Northern Maya Lowlands: Zooarchaeology and Current Marine Concerns		
12:45 PM	Safoora Kamjan, Donna de Groene, Youri van den Hurk, Petar Zidarov, Nedko Elenski, William P. Patterson, Canan Çakırlar	The Emergence and Evolution of Neolithic Cattle Farming in Southeastern Europe: New Zooarchaeological and Stable Isotope Data from Džuljunica-Smărdeš, Northeastern Bulgaria (ca. 6200–5500 cal BCE)		
1:00 PM	Sophie Rabinow	An Investigation of Agouti (<i>Dasyprocta</i>) Introduction to the Precontact Lesser Antilles		
1:15 PM	Radovan Kabatiar	Toothless Sheep and Scrawny Cows: An Examination of Potential Links between Skeletal Pathologies and Environment Deterioration in South-eastern Turkey		
1:30 PM	Discussion/Break			
Lunch/Break/Family Tree				
	Session 3: Shaping Bone a Moderator: Trev			
3:00 PM	Erika Ebel and Genevieve LeMoine	Using ZooMS to Identify Sources of Osseous Raw Material at lita, Northwestern Greenland		
3:15 PM	Stephen Rhodes	Exploring Variability in Neolithic Bone Awls from Georgia, Southern Caucasus		
3:30 PM	Trevor J. Orchard, Suzanne Needs- Howarth, Alicia Hawkins	Mining Howard Savage's Legacy: Assessing Zooarchaeological Data Quality in Undergraduate Student Faunal Reports		
3:45 PM	Discussion/Break			
	Keynote: Max Moderator: Dani			
4:00 PM	T. Max Friesen	Glimpses of the Non-Economic in Arctic Zooarchaeology		
5:00ish	Multiple	Stories about Howard		

Saturday, March 20				
Time EST	Authors	Paper Title		
10:45 AM	Organizing Committee	Land Acknowledgement (Aleksa Alaica)		
		mal Life Histories Aleksa Alaica		
11:00 AM	Ningning Dong	Animal Classification in Ancient China from the Late Neolithic to the Early Bronze Age		
11:15 AM	Nemanja Marković, Jelena Bulatović, Velibor Katić, Miroslav Marić	Zooarchaeology Beyond Food: Osteobiographies of Early Medieval Dog and Pig Skeletons at the Divičmeđ site (Serbia)		
11:30 AM	Helene Benkert, Carly Ameen, Alan Outram, Oliver Creighton	The Zooarchaeology of the Medieval Warhorse		
11:45 AM	Katherine S. Kanne	Sizing Up Selection: Exploring the Evidence for Horse Types in the Hungarian Bronze Age		
12:00 PM	Discussion/Break			
		rging Technologies Stephen Rhodes		
12:15 PM	Johanna Sigl and Peter Kopp	When Leftovers Become a Tool		
12:30 PM	Greenfield et al.	Narrowing the Gap: The Origins of Bronze Metallurgy for Daily Life Activities in the Southern Levant, with Zooarchaeological Data from Tall Zira'a		
12:45 PM	Patrick Keenan	Come One, Come Awl: An Analysis of Tempering Methods of Bone Awls in Neolithic Europe and Western Asia		
1:00 PM	Shelby Patrick	The Making of an Antler Harpoon Head: Iron vs. Slate and Implications for Production		
1:15 PM	Discussion/Break			
Lunch/Break/Family Tree				
		nd Food in the Wild hn Vandergugten		
2:30 PM	Edward Shepherd	Exploring Human–Fox Relationships During the Early Neolithic in Yorkshire, England		
2:45 PM	Stephanie Dolenz, Karis Baker, Naomi Sykes, Holly Miller	Dama Mia: Investigating the Origins and Game Activity of European Fallow Deer in Sicily and Sardinia		
3:00 PM	Simon-Pierre Gilson and Andrea Lessa	Sharks and Precolonial Brazilian Coastal Groups: Let's Start to Think about Sociocultural Implications		
3:15 PM	Aubrey Farrell	You're Gonna Need a Bigger Boat: An Analysis of Shark Tooth Artifacts from Precontact Florida		
3:30 PM	Discussion/Break			
		Ritual, and Symbolism enevieve Dewar		
3:45 PM	Aleksa K. Alaica	Hunting, Herding, and Ritual: Dogs in Moche Daily and Ceremonial Practices of Northern Peru (200–950 CE)		
4:00 PM	Norbert Stanchly and Kitty Emery	Testing the Theory of Animal Left–Right Symbolism in Ancient Maya Ritual Practice		
4:15 PM	Zoe Helleiner	What Forces Shape Dorset Bone Needle Production in the Arctic?		
4:30 PM	Discussion/Closing Comments			

Zooarchaeology Beyond Food: Osteobiographies of Early Medieval Dog and Pig Skeletons at the Divičmeđ site (Serbia)

Nemanja Marković, Institute of Archaeology, Serbia, nemamarkovic@gmail.com **Jelena Bulatović**, Laboratory for Bioarchaeology, Faculty of Philosophy, University of Belgrade, Serbia

Velibor Katić, Belgrade City Museum, Serbia Miroslav Marić, Institute of Balkan Studies, Serbian Academy of Sciences and Arts, Serbia

Zooarchaeological studies of the early medieval contexts are very scarce in present-day Serbia. Only a few studies dealing with the role of animals in funerary rites or the animal economy of settlements are currently available. For the first time, a detailed analysis of two complete animal skeletons from one early medieval settlement in the country will be presented in this paper. Excavations at the multilayered archaeological site of Divičmed in central Serbia have revealed the remains of a fortified early medieval settlement dated to the tenth-eleventh centuries. The excavations inside the settlement ramparts. among other features, revealed an oven most likely used for pottery production. A completely preserved dog skeleton was discovered at the bottom, while a pig skeleton was found in the oven's upper layers. These skeletons indicate secondary use of the oven and prompt further questions about possible cultural impact and depositional scenarios, and they also shed light on the everyday life management within the settlement. In this paper, an interdisciplinary approach will be applied to dog and pig skeletons, which will further give us a rare opportunity to reconstruct their osteobiographies. Radiocarbon dating of the skeletons will provide us with the absolute chronology necessary for a better understanding and reconstruction of deposition processes. This study will also help us to address research questions about broader contexts of human-animal interactions in the country during the early medieval period.

Bio: Dr. Nemanja Marković is a research associate and zooarchaeologist at the Institute of Archaeology, Belgrade. The focus of his research is the reconstruction of past human—animal relationships, mainly on the topics of animal economy, strategies in animal husbandry, and palaeopathology. While studying several topics over the past decade, he analyzed animal remains from the Early Neolithic to the Early Modern period, and those projects provided him broad expertise in zooarchaeology. Together with veterinary scientists, he started pioneering research in the field of animal palaeopathology in the central Balkan area.