Paleoanthropology Society

2024 Annual Meeting

Los Angeles

JW Marriott LA Live

**Posters**

**March 19**

**4:00 -6:00**

Stanley Ambrose, Petra Brukner Havelková, Isabelle Crevecoeur, Ladislav Varadzin, Elise Tartar, Adrien Thibeault, Mike Buckley, Sébastien Vilotte, Lenka Varadzinova Death on the Nile: Why did Nilotic Later Stone Age hunters wage war or keep peace?

Julia Aramendi, Lloyd Courtenay The Reverse Engineering approach: A pioneering technique in the reconstruction of missing anatomical data. Preliminary results using primate femora

Niguss Baraki, Jonathan Reeves, David Braun Deciphering information transfer through Oldowan tool refits

Cecilia Barroso-Medina, Sam C. Lin Exploring the impact of percussive force in flake formation

Anna Behrensmeyer, Jarod Hutson Investigating the mysteries of bone modification with the Smithsonian's National Taphonomic Reference Collection

Miriam Belmaker, Mastao Hirose, Toru Tamura, Risako Kida, Seiji Kadowaki Diachronic zooarchaeological and paleoecological analyses of Late Pleistocene sites in the Jabel Qalkha area, Southern Jordan: Evidence for human adaptability

Peyton Carroll, Christian Tryon, Iris Querenet Onfroy de Breville, Ilaria Patania Lithic technology and human adaptation in the Sicilian Upper Paleolithic

Jessica Castaño, Guangmao Xie, Qiang Lin Appearance of Nycticebus coucang in Late Pleistocene south China: Exploring primate biochronology and paleoecology in Yahuai cave

Marianne Cooper, Mark Conaway, Noreen von Cramon-Taubadel Form or shape? How data standardization affects results of quantitative genetic analyses of the primate appendicular skeleton

Hilary Duke, Michael Chazan Was symmetry an entrenched cognitive trait that organized early human technologies? A case study of Fauresmith prepared cores from Kathu Pan 6, South Africa

Alyssa Enny, Jessica Thompson Shelling out the details: Impacts of variable reporting of chelonian remains in Pleistocene zooarchaeological assemblages in Africa

Sarah Etheridge Using geography and irrigation practices to create a model to identify schistosomiasis cases in Egyptian mummies

Kathryn Fish, W. Andrew Barr, Jonathan Reeves Exploring environmental drivers of hominin scavenging behavior: A modeling approach

Madison Fortier A new non-destructive method for the identification of fossilized burned nones In the archaeological record

Jacqueline Garnett, Gianni Insacco, Ilaria Patania Maximizing the impact of public outreach: A case study in Sicilian Paleolithic archaeology

Logan Guthrie, Miriam Belmaker Vole (Microtus guentheri) stable isotopes as proxies for paleoenvironments: Implications for modern human and Neanderthal interactions in the Middle Pleistocene Levant

Nicolas Hansen, John Murray, J. Ivan Anderies, Chloe Hoelzel, Curtis Marean Identifying the lithic reduction strategy at Middle Stone Age Vleesbaai (south coast, South Africa) using a novel refitting approach

Taylor Hubbard, Lucas Delezene, Thierra Nalley, Jospeh Museba, Amy Rector, Amelia Villaseñor Examining the stable isotope variation of mammals in South Luangwa National Park in the context of anthropogenic influences

Tewabe Negash Kassaw, Michael Pante, Edward Herrmann, Connie Fellmann, Alex Pelissero A quantitative analysis of the micromorphology of marks on bone retouchers used to sharpen lithics

Anubhav Preet Kaur Palaeoecological implications for hominin dispersal(s) through the Pinjor Formation of the Upper Siwalik Hills near Chandigarh in northern India

García Martínez, Díaz Pérez; Gascó Lluna, - Aranbarri; Bermejo Albarrán, Buenestado Ruíz, Campaña Lozano, Cifuentes Alcobendas, - Del Val, Dotes Güendian, D’Angelo del Campo, - Estalrrich, Fernández Cascón, - Fidalgo; García Campos, Gómez Recio, López Cano, - López-Rey, Modesto Mata, - Moreno, Padilla Cano, Sanz Cardiel, Torres Medina, A. Palancar A partial parietal hominin bone from the 2023 campaign at the Middle Pleistocene site of "Ruidera-Los Villares" (Ruidera, Spain, Iberian Peninsula)

Tommaso Mori, Vitale Sparacello, Alessandro Riga, Francesca Seghi, Monica Zavattaro, Fabio Di Vincenzo, Jacopo Moggi-Cecchi, Irene Dori Earliest evidence of Artificial Cranial Modification in epigravettian Arene Candide 12 (12000 BP)

Giuseppina Mutri Human adaptation to different altitudes through time and climatic changes

Thierra Nalley, Lucas Delezene, Joseph Museba, Marie Vergamini, Amelia Villaseñor, Amy Rector Taphonomy of a seasonal riverine habitat: the first year of the Zambia Rift Valley Research Project

Ahmed Nassr, Ahmed Balela, Mohammed Eltoom, Zainab Albshir, Zeljko Rezed

Late Pleistocene and Early Holocene cultural landscapes of northern Butana in the Sahel of Sudan

Kaedan O'Brien, Christian A. Tryon, Lilian Ashioya, J. Tyler Faith Different migratory and dietary responses to seasonality in Last Glacial Period versus present-day Kenyan large herbivores

Georgia Oppenheim, Joshua Robinson, John Kingston Isotopic niche space: A novel approach to assess hominin and faunal niche dynamics at the site of Laetoli, Tanzania

Christianne Ormsby, John Rowan, Ignacio Lazagabaster Paleoecology of the saber-toothed felid Lokotunjailurus emageritus from Lothagam (Turkana Basin, Kenya)

Antonia Otero The Relationship between Distal Femur Morphology and the Evolutionary History of Locomotion

Carlos A. Palancar, Daniel García-Martínez, Markus Bastir Laminae-facet angle differences on hominid cervical vertebrae

Biren Patel, Tea Jashashvili Hallucal proximal phalanx robusticity in chimpanzees, humans, and fossils hominins

Danielle Peltier, Jackson Njau, P. David Polly Modeling the influence of volcanic processes on speciation and its implications for hominin evolution

Lia Plankenhorn-Farrell Global review of early childhood graves 20,000 to 9,000 years ago and their cultural implications

Mary Polaneczky, Madison Fortier, Sarah Hlubik Hominin occupation site vs. landscape: A comparative analysis of hominin-use evidence on faunal remains in the Koobi Fora region

Kyle Pontieri Chewing intensity of a modern spotted hyena modified assemblage

Joshua Porter, Richard Potts, Alison Brooks, Amelia Villasenor

A bi-available strontium isoscape for the South Kenya Rift: Implications for tracking faunal landscape use

Nick Rosas, Andrew Barr Ecomorphic analysis of bovid astragali at the Fort Ternan, Kenya Miocene site

Christopher Schmidt, Ruggero D'Anastasio, Kelsie Adler, Ian Plunkett, Brandi McDonald, Jessica Dorsett, Trifon Theodosopoulos Dental microwear texture analysis of early Holocene people from the Fucino Basin, Abruzzo, Italy

Elena Skosey-LaLonde, Gideon Hartman, Ana Gomes, Nuno Bicho Applications of TEX86 paleotemperature reconstruction method at the Late Stone Age sites of Txina Txina and Zimuara in Mozambique

Carly Stark and Scott Williams

Sexual dimorphism of the sacral auricular surface: A preliminary 3D geometric morphometrics analysis

Lucy Suchomel, Matthew Douglass, David Braun, Jonathan Reeves A comparative study of different core reduction indices using 3D scanned experimental lithic assemblages

Joyce Waweru, David Braun, Mathew Douglass, Jonathan Reeves, Niguss Baraki, Movin Kiprotich A comparative study of reduction sequences methods: application to Oldowan technology

**Oral Presentations**

**March 19**

**Gold 1**

**9:00 – 12:15**

9:00 Introduction

9:15 Levi Raskin; Maja Šešelj; Bárbara Bitarello The effect of trait redundancy on parsimony-inferred tree topologies from a hominin character matrix

9:30 Ian Towle; Kristin Krueger; Anderson Hara; Mario Modesto Mata; Marina Martínez de Pinillos; Leslea Hlusko Utilizing clinical dentistry technology to assess primate dental wear progression

9:45 Weldeyared H. Reda; Philipp Gunz; José Braga; Callum F. Ross; Zeresenay Alemseged Craniofacial development, variation and sexual dimorphism in extant great apes

10:00 Jessica Wollmann-Reynolds; Nicole Peterson; Michelle Cameron; Bence Viola

Differences in the rotational profile of the lower limb among humans and non- human primates.

10:15 Discussion

10:30 Tanya Smith; Ávila Janaína; Jelmer Eerkens; Daniel Green; Hinde Katie; Edgar Huerta; Ian Williams
Primate teeth as proxies for understanding water inputs and past seasonality

10:45 Stefan Schlager; Caroline VanSickle; Mirella Woodert; Martin Haeusler; Nicole Torres-Tamayo

Analyzing obstetric adaptations in incomplete hominin pelves: A new method for predicting unpreserved pubic morphology

11:00 W. Andrew Barr; Bernard Wood

Thinking beyond the rift: how important is sampling bias in understanding human evolution?

11:15 Amelia Villaseñor; Lucas Delezene; Rahab Kinyanjui; Enquye Negash; Porter Joshua; Anna Behresmeyer

The (semi) arid ape: How the rift valley defined our niche

11:30 Kaye Reed; Irene Smail; David Feary

Comparing dispersal patterns of African hominins in the Plio-Pleistocene

11:45 Kristian Carlson; Tea Jashashvili; Jason Heaton; Travis Pickering; Loring Burgess; Lauren Sarringhaus; Amélie Beaudet; Robin Crompton; Andi Heile; Dominic Stratford; Kathleen Kuman; Ronald Clarke; Christopher Ruff

StW 573 ("Little Foot") limb functional anatomy and behavioral reconstructions, and their implications for hominin evolution

12:00 Discussion

**March 19**

**Gold 1**

**2:00-4:00**

2:00 Alex Pelissero; Edward Herrmann; Jackson Njau; Tewabe Negash; Danielle Peltier; Michael Pante

Using Drone Survey to Map Stratigraphy and Hominin Activity Patterns at Olduvai Gorge

2:15 Tom Plummer; Emma Finestone; James Oliver; Ditchfield Peter; Kinyanjui Rahab; Lemorini Cristina; Caricola Isabella; Bishop Laura; Blumenthal Scott; Parkinson Jennifer; Braun David; Onyango Blasto; Grant Madison; Potts Rick

Oldowan occurrences on the Homa Peninsula, Kenya

2:30 François Marchal; Denné Reed; Sandrine Prat

The Omo-Turkana Basin hominin fossil record

2:45 Evan Wilson; Xavier Böes; Vincent Arrighi; Sonia Harmand

The Missing Oldowan: The Early Stone Age from 2.3 to 2.0 Ma at the Nasura site complex, West Turkana, Kenya

3:00 Frances Forrest; Eimy Gonzalez Alvarez; David Braun; Emmanuel Ndiema

Exploring Early Hominin Carnivory: Insights from the newly discovered Area 8A Fossil Assemblage in East Turkana, Kenya.

3:15 Alyssa McGrath; W. Andrew Barr; J. Tyler Faith

Examining niche partitioning of extinct hyaenid species in non-analog Pleistocene ecosystems

3:30 Ekaterina Stansfield; Clara Egner; Hans Kainz

Forward modeling of walking in humans with different hip widths

3:45 Discussion

4:00 Katerina Harvati

Paleoanthropology journal discussion

**Poster Session 4:15 – 6:00**

**Oral Presentations**

**March 20**

**Gold 1**

**8:30 – 12:15**

8:30 Irene Smail; Amy Rector; Joshua Robinson; Kaye Reed

Habitat, precipitation, and seasonality reconstructions using fossil fauna from 2.8-2.6 Ma localities in Ledi-Geraru, Afar Regional State, Ethiopia

8:45 Sileshi Semaw; Michael Rogers; Isabel Caceres

The OGS-6/-7 Sites from Gona, Ethiopia, Revisited

9:00 Amanda Leiss; Michael Rogers; Sileshi Semaw; Naomi Levin

The Aggregation Problem: Implications for Paleoanthropology

9:15 Mohamed Sahnouni; Alfredo Pérez-González; Mathieu Duval; Lee Arnold; Josep María Parés; Jan Van der Made; Razika Chelli; Salah Abdessadok; Zoheir Harichane; Isabel Cáceres; Antonio Rosas; Nadia Saidani; Jordi Agusti; Abdelkader Derradji; Farrah Chemerik; Nacim Mazouni; Saloua Chibane; Slimane Hachi

Revisiting the Homo erectus site of Tighennif (formerly Ternifine), Algeria. Results of new multidisciplinary investigations

9:30 Costantino Buzi; Antonio Profico

A comparative study of maxillary sinuses in modern and fossil humans by Virtual Anthropology

9:45 Michael Pante; Mica Glantz; Connie Fellmann; Davorka Radovčić
The taphononic history of the Neandertals from Krapina

10: Discussion

10:15 Tanner Kovach

Beyond Extinction: Modelling Diverse Neanderthal-Homo sapiens Interactions

10:30 Christian Tryon; Roure Johnson Cara

The academic life and legacy of Sally McBrearty (1949-2023)

10:45 Katerina Harvati; Chris Stringer; Caleb Folorunso

Comparative 3D shape analysis of the Iwo Eleru mandible, Nigeria

11:00 Jayde N. Hirniak; Eugene I. Smith; Racheal Johnsen; Minghua Ren; Jacob A. Harris; Nicholas J.G. Pearce; Christopher Campisano; Melanie Barboni; Eamonn Needham; Curtis W. Marean

The potential of crypto-tephrochronology studies at paleoanthropological sites throughout Africa

11:15 Hannah Keller; Curtis Marean

Taphonomic analysis of Middle Stone Age ostrich eggshell fragments from Pinnacle Point 5-6N (south coast, South Africa) reveals changes in occupational intensity

11:30 John Murray; Ivan Anderies; Swanny Jurczak; Chloe Hoelzel; Nicolas Hansen; Curtis Marean

How did Middle Stone Age humans heat-treat silcrete at Pinnacle Point 13B approximately 162,000 years ago?

11:45 Naomi Cleghorn; Ximena Villagran; Rosaria Saktura; Sara Watson; John Murray; Benjamin Schoville; Bongekile Zwane; Irene Esteban; Erich Fisher; Hannah Keller; Dominic Stratford

From the Middle to Later Stone Age on the African south coast and Palaeo- Agulhas Plain: A detailed sequence of transitions from Knysna Eastern Heads Cave 1

12:00 Amanuel Beyin; David K. Wright; Kokeli P. Ryano; Jan-Pieter Buylaert

Late Pleistocene human occupation of the Kilwa coast (Tanzania): New OSL dates and paleoenvironmental insights from stable isotope data

12:15 Discussion

**March 20**

**Gold 1**

**2:00 – 5:45**

2:00 Michael Rogers; Sileshi Semaw; Gary Stinchcomb

Archaeology of the Odele Member at Gona, Afar, Ethiopia

2:15 Zeljko Rezek; Fethi Amani; Eslem Ben Arous; Carlo Mologni; Pauline Raymond; Margit Hildegard Simon; Ismael Ziani; Abdelouahed Ben-Ncer; Abdeljalil Bouzouggar; Jean-Jacques Hublin

Depositional and cultural contexts of Late Pleistocene Homo sapiens fossils from Rabat-Temara caves in Morocco

2:30 Jayson Gill; Keith Wilkinson; Boris Gasparyan; Daniel Adler

Measuring Early Levallois Blank Utility and Standardization: A Novel Approach

2:45 Johan Jarl; Boris Gasparyan; Andrew Kandel; Angela Bruch

Phytoliths as an environmental proxy for the Upper Paleolithic in the Armenian Highlands - Aghitu-3 Cave, Armenia

3:00 Kathryn Sokolowski; Kaedan O'Brien; Vincent Hare; Drake Yarian; Lloyd Roussouw; J. Tyler Faith

Paleoecological implications of the Lateglacial hyena den from Besaansklip (southwestern Cape, South Africa

3:15 Discussion

3:30 Elizabeth M. Niespolo, Warren D. Sharp, François L.H. Tissot, Gifford H. Miller

230Th/U burial dating of Australian megafaunal eggshells

3:45 Ilaria Patania; Isaac Ramirez Ogloblin; Jaqueline Garnett; Peyton Carroll; Iris Querenet Onfroy De Breville; Sebastiano Di Mauro; Agatino Reitano; Gianni Insacco; Gianmarco Minniti; Christian Tryon

Incorporating Citizen Science in Archaeological Research, the case study of Early Occupation of Sicily (EOS) Project.

4:00 Isabelle Crevecoeur, Francois Bachellerie, Brad Gravina, Solange Rigaud, Laure Dayet, Marc Thomas, Christelle Lahaye, Loic Lebreton, Eugene Morin, Jean-Jacques Bahain, Mickael Baillet, Edouard Bard, Cedrick Beauval, Jean-Guillaume Bordes, Thibaut Deviese, Christophe Falgueres, Damien Flas, Lisa Garbe, Guillaume Guerin, Francois Lacrampe-Cuyaubere, Camille Lesage, Carolina Mallol, Josserand Marot, Bruno Maureille, Alexandre Michel, Xavier Muth, Elise Tartar, Nicholas Teyssandier, Adrien Thibeault, Dominique Todisco, Olivier Tombret, Helene Rougier

Shell beads and pigments associated with Chatelerronian artefaccts at La Roche-a-Pierrot, Saint-Cesaire, France

4:15 Mark Collard; Brea McCauley

Religious sacrifice in the Ice Age? On ritual finger amputation as a potential explanation for the Gravettian hand images with incomplete fingers

4:30 Madison J. McCartin; Britt M. Starkovich; Nicholas J. Conard

New insights into Magdalenian subsistence at Petersfels (Hegau Jura, southwestern Germany)

4:45 Reuven Yeshurun; Luc Doyon; José-Miguel Tejero; Rudolf Walter; Hannah Huber; Robin Andrews; Keiko Kitagawa

Identification and quantification of projectile impact marks on bone: New experimental insights using osseous points

5:00 Discussion

5:15 Business meeting