Big Historical Data Conference November 22-25, 2023 Max Planck Institute for Geoanthropology Jena, Germany

8:45-9:00 9:00-10:30	Welcome address Session 1: Big Databases: How large-scale archives can boost archaeological research I Session organisers: Martina Farese, Giulia Formichella, and Noemi Mantile			
	1-1	Ricardo Fernandes	The Pandora Initiative: promoting fairer data collaboration	
	1-2	Martina Farese	From the Neolithic to the Middle Ages: a big data view of foodways in ancient Italy	
	1-3	Antonio Caruso	STARC OSTEOARCH: An open access resource for recording and sharing human osteoarchaeological data	
	1-4	Claire Ebert	Tracking human diet and migration using the Caribbean and Mesoamerica Biogeochemical Isotope Overview (CAMBIO)	
	1-5	Natalia Riabogina	Building archaeobotanical and archaeozoological database in the BIAD: structure, creation experience and comparative analysis perspectives	
	1-6	Victor Yan Kin Lee	Bridging human paleogenetics and archaeology: problems with existing practices and prospects for overcoming them	
10:30-11:00 11:00-12:30	Coffee break Session 1. Big Databases: How large-scale archives can boost archaeological research II Session organisers: Martina Farese, Giulia Formichella, and Noemi Mantile			
	1-7	Andrew Kandel	The ROAD Database as a Research Tool for Exploring Human Evolution	
	1-8	Felix Riede	Cultural evolutionary trends as revealed by a novel, expert-sourced dataset on lithic technology, toolkits, and artefact shapes for the Final Palaeolithic/earliest Mesolithic of Europe (15-11ka BP)	

	1-9	David Laguna-Palma	An open and interdisciplinary approach to modelling movement along the ancient Lybian Sea
	1-10	Efthymia Nikita	MetaMobility Databases: Promoting Greco-Roman bioarchaeology
	1-11	Antonio Campus	Big Archaeological (Legacy) Data. Collection, dissemination and reuse for large scale analysis
	1-12	Maite I. Garcia- Collado	Exploring large-scale historical processes using IsoIberMed: a new isotope database for bioarchaeological samples from Medieval Iberia
12:30-13:30 13:30-14:00	,	9	scale archives can boost archaeological research III ulia Formichella, and Noemi Mantile
	1-13	Sean Hixon	Presenting a compilation of isotopic data from Madagascar
	1-14	Carlo Cocozza	The IsoMemo Initiative: Enhancing archaeological and historical research through isotope databases
14:00-15:00		,	: Challenges and potentials for multi-scalar analysis across millenia I Jesse Wolfhagen, and Sarah Whitcher Kansa
	2-1	Sarah Whitcher Kansa	From small to big data in zooarchaeology
	2-2	Kitty Emery	Crosswalking, linking, and verbatim interpretations: adventures in legacy zooarchaeological biodiversity open data publishing
	2-3	Canan Kakirlar	Cross-disciplinary reuse potential of big zooarchaeology data: What do we need?
	2-4	David Orton	Assessing approaches to chronological uncertainty in large-scale zooarchaeological data synthesis
15:00-15:30 15:30-16:30		g Zooarchaeological Data	a: Challenges and potentials for multi-scalar analysis across millenia II Jesse Wolfhagen, and Sarah Whitcher Kansa
	2-5	Matthew Hill Jr.	Tracking long-term subsistence among the Native North American Great Plains hunters

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2-6	Max Price	Wool they won't they: Combing the zooarchaeological evidence for wool production in Northern Mesopotamia c. 4500-1500 cal. BC
2-7	Anthony King	The RomAniDat network: a zooarchaeological Big Data initiative for the ancient Roman world
2-8	Roberto Ragno	Understanding variation in zooarchaeological NISP data: Bayesian betabinomial models for Italian contexts in the 1st millennium CE

9:00-10:30	Session 3: Environments of big cultural heritage data integration I Session organisers: Michael Fisher and Dovydas Jurkenas				
	3-1	Michael Fisher	Heritage-environment interaction: Theorising Big (Palaeo)Data nntegration across the nature-culture divide		
	3-2	Julian Richards	ARIADNE: aggregating archaeological datasets at an international scale		
	3-3	Pablo Barruezo- Vaquero	Transdisciplinary data integration into a computational ontology: some reflections from the DataARC Project on modelling human–non-human entanglements		
	3-4	Thomas Huet	"Shared heritage": management and integration of cultural heritage data across Arches-based platforms in the Global South		
	3-5	Jonas Gregorio de Souza	Mapping the archaeological Pre-Columbian heritage in South America		
	3-6	MAHSA and MAEASaM Teams	Modelling heritage information in two diverse regions: reflections on the integration of heterogeneous big data from the MAHSA and MAEASaM projects		
10:30-11:00 11:00-11:30	Coffee break Session 3. Environments of big cultural heritage data integration II Session organisers: Michael Fisher and Dovydas Jurkenas				
	3-7	Dovydas Jurkenas	Hordes of Data: Multilayered documentation and collection of archaeological heritage and environmental data across the Mongolian landscape		
	3-8	Ankhsanaa Ganbold	Creating the Mongolia cultural heritage database (immovable historical and cultural heritage)		
11:30-12:30		. Archaeological time-series ganisers: John Meadows and	: The quest for robust ¹⁴ C-dated proxies for the intensity of prehistoric activity d Peer Kröger		
	4-1	Jan Kolar	Large radiocarbon datasets in relation to archaeological context and metadata		
	4-2	Fiona Laviano	Building a database of dated Neanderthal fossil remains to estimate the spatiotemporal pattern of Neanderthal extirpation		

	4-3	Jiyoung Park	Investigating long-term population dynamics in the Han River Basin using radiocarbon dating
	4-4	Thomas Huet	NeoNet, an app for radiocarbon modelling of the Late Mesolithic / Early Neolithic transition in South-Central and South-Western Europe
12:30-13:30	Lunch		
13:30-14:30		ata and people in interac nisers: Vera Klontza and B	tion: Network analysis for everyone Parbora Ruffini
	5-1	Tamás Czuppon	Hidden information or misuse? Data and network analysis on burial customs (6-9 c. AD)
	5-2	Freg J. Stokes	Mapping networks of capital and resistance in tropical South America
	5-3	Britt Davis	Neutron activation analysis and networks: Possibilities and constraints
	5-4	Christopher Carleton	'Symbolic scaling' in ancient and contemporary cities
14:30-15:00		everaging Big Data, GIS, nisers: Manuel Peters and	and machine learning in remote sensing I Amina Jambajantsan
	6-1	Stefania Merlo	An experiment with automated detection of diverse archaeological features in an African context using deep-learning and free satellite multispectral imagery
	6-2	Ahmed Mahmoud	Automated change detection monitoring of archaeological sites using machine learning and Google Earth Engine
15:00-15:30 15:30-16:00			and machine learning in remote sensing II Amina Jambajantsan
	6-3	Manuel J. Peters	Multi-scale automated feature detection in the Argentinean Andes: A comparative analysis of satellite and UAV
	6-4	David Stott	Positive false positives: Searching for annular landforms in Northern Europe

16:00-17:45 Session 7. AI for historical and archaeological Big Data analysis II

	Session organiser: Jochen Büttner		
	7-1	Jakob Hauser	Enhancing the Seshat databank: A computationally readable mapping of historical facts to scholarly references
	7-2	Hassan El-Hajj	Prompt me a dataset: Large-scale ML dataset creation in the humanities
	7-3	Mathieu Aubry	Discovering and analyzing patterns in large historical image databases
	7-4	Jambajantsan Amina	Leveraging satellite imagery and Deep Learning in Mongolian archaeology
	7-5	Jianyin Roachell	Deep Learning and Bayesian analysis of historical time series data
	7-6	Adam Izdebski	Applying Bayesian machine learning to causality modelling in historical social- ecological systems: case studies from early modern Greece and Poland
	7-7	Raphael Schlattmann	Trajectories of change: Using text embeddings to track knowledge evolution
18:00-19:00 19:00-19:30	Dinner & Gr Plenary	oup photo	

Friday	November	r 21
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9:00-10:30	Session 8: Insights from reusing large prehistoric and interdisciplinary databases Session organisers: Christian Sommer, Angela Bruch, Nicholas Conrad, Christine Hertler, Miriam N. Haidle, Volker Hochschild, Zara Kanaeva, Andrew Kandel, and the ROCEEH Team			
	8-1	Samantha Scott Reiter	Columns and rows: publishing, preparing, harmonizing and preserving protocols, guidelines and resources from the Big Interdisciplinary Archaeological Database	
	8-2	Anaïs Vignoles	Shortcomings related to archaeological bibliographic databases used for macro-scale modeling: the SIGMENT database for estimating Middle and Recent Gravettian lithic technical tradition distributions in Western Europe	
	8-3	Giulia Marciani	Beyond labels. Exploring patterns of formal description of lithic variability in Late Pleistocene technologies	
	8-4	Rimtautas Dapschauskas	Using big data to gain new insights about large-scale developments of human behavioral evolution: ROAD and Middle Stone Age ochre use	
	8-5	Christian Sommer	Mapping archaeological cultures and periods with network cartography	
	8-6	Jesús Rodríguez	Modelling the adaptations of hominins to climate in Europe from MIS14 to MIS11	
10:30-11:00 11:00-12:30	systems		environmental databases: Exploring the dynamics of human-environmental	
	9-1	Pedro Andrade	Long-term arsenic exposure evidence in northern Chile revealed through analysis of compiled osteological and elemental data	
	9-2	Michele Abballe	Modelling the evolution of the hinterland of Ravenna: human-environment relationships in an extremely dynamic alluvial landscape	
	9-3	Michela Leonardi	Palaeoecology made easy: pastclim and tidysdm, two new R packages to make the best use of palaeo big data	
	9-4	Margherita Colucci	A case study: modelling human-malaria coevolution through time using paleoclimatic and palaeoenvironmental databases	

	9-5	Ümit Cevher Elmas	Paleoenvironmental databases: A case study from Lake Burdur
	9-6	Thomas Giesecke	The Neotoma Palaeoecology Database as a research tool to assess human landscape interactions during the Quaternary
12:30-13:30 13:30-15:00			
	10-1	Luke Anderson- Trocmé	Unraveling French Canadian ancestry: An interplay of genetics, genealogies, and geography
	10-2	David Max Findley	Harmonizing big datasets: PANTROPOCENE, Land use modelling, and the historical tropics
	10-3	Daniel Baránek	From historical sources to Wikibase
	10-4	Etienne Wasmer	A cross-verified database of locations visited by notable individuals
	10-5	Clément Gorin	A convolutional network approach to mining historical map data
	10-6	Sonia Medina Gordo	[POSTER] Script-based automation practices: some experiences for managing early medieval society through written evidence
15:00-15:30 15:30-16:45		lodelling expansions in S	outh America: Integrating archaeology and linguistics parardi and Bruno de Souza Barreto
	11-1	Paul Heggarty	Combining archaeology, language and genetics into a single human (pre)history through time, space, and ecology
	11-2	Rafael de Almeida Lopes	Using spatial and chronological modelling to understand the Polychrome Tradition Expansion in Central Amazon
	11-3	Bruno de Souza Barreto	Demic diffusion, cultural transmission and change: assessing the spread of the Koriabo pottery style as an archaeological correlate of the Cariban-languages expansions in northern Amazonia

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	11-4	Fabrício Ferraz Gerardi	A phylogenetic study of the Cariban language family
	11-5	Kathrin Nägele	Beyond broad strokes - the future of ancient DNA in the Americas
16:45-17:00	Closing rema	arks	

Saturday, November 25

10:00-12:00 Guid	ded tour of Jena
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