

PANAGIOTIS (TAKIS) KARKANAS
CURRICULUM VITAE
2022

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EDUCATIONAL BACKGROUND

1994: Ph.D. in Geology (Specialty: mineralogy, petrology, geochemistry), Department of Geology, University of Athens.

1986: B.Sc. in Geology, Department of Geology, University of Athens.

OTHER TRAINING AND PROFESSIONAL/LABORATORY RESEARCH EXPERIENCE

1990: Postgraduate Seminar (300 hours) in *Geology of sedimentary basin and energy resources*. EU funded Research Seminar for Geologists, Department of Geology, University of Athens.

1995-2003 (approx. one month per year): Visiting research scientist, Kimmel Center for Archaeological Sciences, Weizmann Institute of Science, Israel.

1996-1998: Adjunct research scientist, Institute of Minerals and Mining Exploration (IGME), Athens, Greece.

1993-1997: Adjunct research scientist, Department of Geology, University of Athens, Greece.

AREAS OF INTEREST

Geoarchaeology: site formation processes (stratigraphy, micromorphology, post-depositional chemical alterations) palaeoenvironmental reconstructions, paleoclimate, methods and techniques (dating, petrography, mineralogy, sedimentary analysis, provenance analysis).

PROFESSIONAL APPOINTMENTS

2014-: Director, Malcolm H. Wiener Laboratory of Archaeological Science, American School of Classical Studies at Athens, Greece.

2004-2013: Adjunct Lecturer, Department of Geography, Harokopio University of Athens.

1994-2014: Senior Geologist, Ephoreia of Palaeoanthropology-Speleology (EPS), Ministry of Culture, Greece.

HONORS/AWARDS/ FELLOWSHIPS

2018: International Member of the U.S. National Academy of Sciences (elected).

2017: Foreign Honorary Member of the American Academy of Arts & Sciences (elected).

2017: Rip Rapp Archaeological Geology Award, Geological Society of America.

2016-: Research Affiliate, Institute of Human Origin, Arizona State University.

2010: Paper (Karkanas P. 2007) listed in the 25 most important and influential papers that have been published in the journal '*Geoarchaeology*'.

2004-2005: Geoarchaeology Fellow at Wiener Laboratory, American School of Classical Studies at Athens.

1998-1999: Geoarchaeology Fellow at Wiener Laboratory, American School of Classical Studies at Athens.
1996-1997: Research Associate at Wiener Laboratory, American School of Classical Studies at Athens.
1988-1991: Scholarship from the State Scholarship Foundation (PhD Thesis).

TEACHING EXPERIENCE

2004-2013: Department of Geography, Harokopio University of Athens; Course: *Geoarchaeology*.
2005: Department of History and Archaeology, University of Thessaloniki. Post-graduate seminar course (3 hours): *Archaeological sediments*.
1989-1991: Assistantship in the courses of *Crystallography* and *Mineral Microscopy*: Section of Mineralogy and Petrology, Dept. Geology, University of Athens, Greece.

SUPERVISION

Vaggelis Tzourloukis (PhD received from University of Leiden).
Myrsini Gouma (PhD received, Vrije Universiteit, Amsterdam).
Nafsika-Chrysoula Andriopoulou (PhD received, Technical University of Crete).
Dimitris Roussos (PhD current, University of Athens)
Lucia Leierer (MSc received from University of Tübingen).

SERVICE / ADMINISTRATION

2016-: Scientific Advisory Committee, Max Planck-Harvard Research Center for the Archaeoscience of the Ancient Mediterranean.
2014-2020: Pomerance Science Medal Committee.
2012-2014: Committee of Mousiographic Design of Petralona Cave Museum.
2012-2013: Committee of Mousiographical Study of Petralona Cave Museum.
2012-2013: Committee of Touristic Development of Franchthi Cave.
1996-1997: Committee of Touristic Development of Drakos Cave, Kastoria.
1996-1998: Committee of Touristic Development of Maara Cave, Drama.
1996: Committee of Touristic Development of Pramanta Cave, Ioannina.

EXTERNAL REVIEW COMMITTEE

2014: Geoarchaeology Section, Institute for Archaeological Science, University of Tübingen

EDITORIAL BOARDS

2007-: *Geoarchaeology* (Associate Editor)
2012-2014: *Journal of Human Evolution* (Associate Editor)
2016: *The Encyclopedia of Geoarchaeology*, Earth Science Encyclopedia series, Springer

EXTERNAL PhD REVIEWER

Mike Morley (PhD received from University of Manchester)
Justin Stratford (PhD received from University of the Witwatersrand)
Frank Carpienter (PhD received from KU Leuven).
Irene Esteban (PhD received from University of Barcelona)
Daniel Fallu (PhD received from University of Boston)
Rachel Kulick (PhD received from University of Toronto)
Domenico Giusti (PhD received from University of Tuebingen)
Petros Chatzimbaloglou (PhD received from University of Cambridge)

Justin Holcomb (PhD received from University of Boston)

JOURNAL REFEREE

Geoarchaeology; Journal of Archaeological Science; Journal of Archaeological Science, Reports; Journal of Human Evolution; Chemical Geology; Quaternary International; Journal of Quaternary Science; Journal of Archaeological Method and Theory; Science; Southern African Humanities; Archaeological and Anthropological Sciences; Radiocarbon; European Journal of Archaeology; Journal of Field Archaeology; Palaeogeography, Palaeoclimatology, Palaeoecology.

GRANT REFEREE

National Science Foundation (USA); Israel Science Foundation; Leaky Foundation; Netherlands Organisation for Scientific Research (NWO), European Research Council (ERC); National Geographic; The British Academy; Council for British Research in the Levant;

MAJOR FUNDED PROJECTS

- 2018-2022: The Megalopolis Palaeoenvironmental Project (MegaPal). ASCSA project. Directors: P. Karkanas, K. Harvati, and E. Panagopoulou (funded by CROSSROADS, see below)
- 2017-2021: European Research Council: Human evolution at the crossroads (CROSSROADS). PI: K. Harvati, University of Tübingen, Germany (Co-Investigator).
- 2013-2016: The Swedish Research Council: Late Quaternary climate variability and vegetation dynamics in southern Greece. PI: K. Holmgren, Stockholms Universitet, Institutionen för Naturgeografi och Kvärtärgeologi (Co-Investigator).
- 2011-2016: European Research Council: Palaeoanthropology at the Gates of Europe (PAGE). PI: K. Harvati, University of Tübingen, Germany (Co-Investigator).
- 2011-2015: National Science Foundation, USA: IPG - Developing and Testing an Integrated Paleoscape Model for the early Middle and Late Pleistocene of the South Coast of South Africa. PI: C. Marean, Arizona State University, USA (Co-Investigator).
- 2011-2013: National Endowment for the Humanities, Collaborative Research: The Diros Project, 2011-2013: Greek-American Collaborative Multi-Disciplinary Research on the Mani Peninsula, Southern Greece. PI: W. Parkinson (Co-Investigator).
- 2012-2013: National Geographic Society: The Diros Project 2012. Greek-American Collaborative Research in Southern Greece. PI: W. Parkinson (Co-Investigator).
- 2012: INSTAP: The Diros Project 2012: Greek-American Collaborative Multidisciplinary Research on the Mani Peninsula, Southern Greece. PI: W. Parkinson, M. Galaty, A. Papathanasiou, and G. Papathanassopoulos (Co-Investigator).
- 2010-2012: National Science Foundation, USA IRES: U.S.-Hungarian-Greek Collaborative International Research Experience for Students on Origins and Development of Prehistoric European. PI: W. Parkinson; Co-PI: Richard Yerkes; Organization: Field Museum of Natural History, USA. (Co-Investigator).
- 2011- 2012: INSTAP: The Diros Project 2011: Greek-American Collaborative Multidisciplinary Research on the Mani Peninsula, Southern Greece. PI: W. Parkinson, M. Galaty, A. Papathanasiou and G. Papathanassopoulos (Co-Investigator).

- 2009-2014: National Science Foundation, USA: Wetland and transition to agriculture in Europe: The Southern Albania Neolithic Archaeological Project; PI: S. Allen, University of Cincinnati (Co-Investigator).
- 2009-2011: National Science Foundation, USA IRES: Early Village Social Dynamics: Prehistoric Settlement Nucleation on the Great Hungarian Plain; PI: W. Parkinson; Co-PI: R. Yerkes; Organization: Field Museum of Natural History, USA (Co-Investigator).
- 2006-2011: National Science Foundation, USA: Paleoclimatic and paleoenvironmental context of the origins of modern humans in South Africa: Constructing a detailed record from 400-30 ka and correlation to the ice core and deep-sea sequence. PI: C. Marean, Arizona State University, USA (Co-Investigator).
- 2005-2006: LSB Leakey Foundation: Late Pleistocene of the Mani Peninsula, Southern Greece: Palaeoanthropological investigations. PI: E. Panagopoulou, Ephoreia of Palaeoanthropology-Speleology, Greece (Co-Investigator).
- 2005: National Geographic Society: From Neanderthals to modern humans at the Sopena rock-shelter (Asturias, Northern Spain). PI: A. C. Pinto Llona, Arizona State University, USA. (Co-Investigator).
- 2005: National Geographic Society: The Paleoenvironment and Prehistoric Use of Panxian Dadong Cave, Guizhou, China. PI: L. Schepartz (Dept. Anthropology, Univ. Cincinnati (Co-Investigator).
- 2004-2005: Wenner-Gren Foundation: Late Pleistocene of the Mani Peninsula, Southern Greece: Palaeoanthropological investigations. PI: E. Panagopoulou, Ephoreia of Palaeoanthropology-Speleology, Greece (Co-Investigator).

MAJOR AREAS OF INTERNATIONAL FIELD WORK

South Africa (2003–); Hungary (2013-2014); Albania (2010-2012); Cyprus (2009–); Israel (2003, 2005-2007); China (2000, 2004); Spain (2005); France (1998, 2000).

FIELD/RESEARCH EXPERIENCE

- 2022–: Apidima Cave, Mani (Palaeolithic). Director K. Harvati and V. Tourloukis (University of Tübingen).
- 2021–: Aigeira Archaeological Survey Project (Bronze Age). Director W. Gauss (Austrian Archaeological Institute in Athens).
- 2019–: Amarnethos, Euboea (Geometric-Roman). Project Director K. Reber (Swiss Archaeological School in Greece).
- 2019–: Ierapetra Basin, Crete (Minoan) in collaboration with M. Gkouma. Project Directors: T. Brogan (INSTAP) and J. Papadatos (Univ. Athens).
- 2018–: Chryssi Island, Crete (Minoan). Project Director: T. Brogan (INSTAP).
- 2017–: Athenian Agora (Archaic- Roman). Project Director: J. Camp II (American School of Classical Studies).
- 2017–: Prosilio, Orchomenos (Bronze Age). Project Directors Yannis Galanakis (Cambridge Univ.) and A. Charami (Ephorate of Antiquities of Boeotia).
- 2017–: Palaipaphos, Cyprus (Classical) in collaboration with M. Gkouma. Project Director: M. Iacovou (Univ. Cyprus).
- 2015-2016: Molivoti, Thrace Archaeological Project (Classical-Hellenistic). Project Director: N. Arrington (Princeton University).
- 2015–: Palace of Nestor, Pylos (Bronze Age). Project Directors: S. Stocker and J. Davies (University of Cincinnati).

- 2015–: Tombs of Aidonia Preservation, Heritage and exploration (Bronze Age). Project Director: Kim Shelton (Berkeley University).
- 2009, 2015–: The Archaic Sanctuary of Artemis Elaphibolos and Apollon of Yampolis, Kalapodi, Lamia. Project Director W.D. Niemeir and Katjia Spörn (German Archaeological Institute).
- 2013-2014: Körös Regional Archaeological Project, Hungary (Neolithic). Project Directors: W. Parkinson (The Field Museum, Chicago, USA), and A. Gyucha (Field Service of Cultural Heritage, Hungary).
- 2014-2016: Pelekita Cave, Crete (Neolithic-Bronze Age). Project Directors A. Kanta (CSCMC) and S. Ferrecne (INSTAP).
- 2013–: Stelida, Naxos Island (Palaeolithic). Project Director: T. Carter (McMaster University).
- 2013–: Delta Falirou cemetery (Archaic and Classical). Project Director: S. Chrisoulaki (ST EPKA, Greece).
- 2013-2017: PAGE (Palaeoanthropology at the Gates of Europe), ERC project. Project Director K. Harvati (University of Tübingen).
- 2013–: Agios Vasileios palace and cemetery, Sparta, Lakonia (Bronze Age): Project directors: A. Vassilogamrou (Director Emerita of Antiquities, Greece), Sofia Voutsaki (Groningen Institute of Archaeology).
- 2013: Katharo basin (Crete). Project Director E. Panagopoulou (EPS) in collaboration with K. Harvati (University of Tübingen).
- 2012-2013: Mavri Spilia, Kardamyli, Peloponnese (Palaeolithic). Project Director E. Panagopoulou (EPS) in collaboration with K. Harvati (University of Tübingen).
- 2012–: Marathousa site 1, Megalopolis basin, Peloponnese (Lower Palaeolithic). Project Director E. Panagopoulou (EPS) in collaboration with K. Harvati (University of Tübingen).
- 2011-2015: Kokkinopilos (Palaeolithic) in collaboration with V. Turloukis, Leiden University.
- 2010-2012: The Southern Albania Neolithic Archeological Project. Project Director: S. Allen (University of Cincinnati).
- 2010–: Koutroulou (Neolithic). Project Directors: N. Kyparissi-Apostolika (EPS) and Y. Hamilakis (Univ. Southampton, UK).
- 2010-2015: Alepotrypa Cave, Diros, Peloponnese (Neolithic). Collaboration between EPS and G. Papathanassopoulos.
- 2010-2017. Melitzia Cave, Peloponnese (Palaeolithic). Project Director A. Darlas (EPS).
- 2010-2016: Ouriakos, Lemnos Island (Epipalaeolithic). Project Director N. Efstratiou (University of Thessaloniki, Greece).
- 2009-2015: Early Neolithic Roudias site, Xeros Rema, Pafos, Cyprus. Project Director N. Efstratiou (University of Thessaloniki, Greece).
- 2009-2013: Plakias Survey, Crete (Mesolithic, Palaeolithic). Collaboration between EPS (E. Panagopoulou) and ASCSA (Th. Strasser).
- 2009: Geo-ethno-archaeology of tell formation processes: an interdisciplinary study of decayed mud brick structure. Project Director R. Shahack-Gross (Kimmer Center for Archaeological Science, Israel).
- 2008: Tombs of the cemetery of Kenchreai (Roman). Project Director J. Rife (Macalester College).
- 2007: Schisto Cave sediments (Mesolithic). Project Directors, L. Kormazopoulou and F. Mavridis (EPS).

- 2007-2012: Mycenae archaeological deposits (Bronze Age). Project Director: Chr. Maggidis (Dickinson College and Athens Archaeological Society).
- 2005-2007: Leontari Cave (Neolithic). Project Director, L. Kormazopoulou in collaboration with prof. L. Karali, Dept. Archaeology, Univ. Athens.
- 2005-2007: Qesem Cave (Lower Palaeolithic), Israel. Project director A. Gopher, (Tel-Aviv University, Israel).
- 2005: Sopena Cave (Palaeolithic), Asturias, Spain. Project Director: A.C. Pinto Llona (Arizona State University).
- 2004-2012: Mitrou islet (Bronze Age), Greece. Project Directors: A. Van de Moortel (University of Tennessee, USA) and E. Zahou (ID EPKA, Greece).
- 2004-2012: Palamari, Skyros Island, Greece. Project Director L. Parlama.
- 2004-2008: Aliakmon Survey, N. Macedonia (Lower Palaeolithic). Collaboration between EPS (E. Panagopoulou) and ASCSA (K. Harvati).
- 2004-2006: Bronze Age kiln at Kolona, Aigina, Greece. Project Director G. Walter (Austrian Archaeological School).
- 2004: Geraki Acropolis, Lakonia, Greece. Project Director J. Crouwel (Dutch Archaeological School).
- 2002-2011: Mycenaean Tombs, Nemea, Greece (Bronze Age). Project Director J. Wright (Bryn Mawr College) and R. A. K. Smith (Brock University, Canada).
- 2004-2008: Geoarchaeology of Palaeolithic sites at Grevena uplands. Project Director N. Efstratiou (University of Thessaloniki, Greece).
- 2003–: Mossel Bay Archaeological Project, South Africa. Project Director C. Marean (Arizona State University).
- 2000-2014: Kleisoura Cave, Peloponnese (Paleolithic, Mesolithic). Project Director M. Koumouzele (EPS).
- 2000-2007: Dadong Cave (Palaeolithic), Guizhou, China. Project directors L. Schepartz (Univ. Cincinnati, USA), S. Miller-Antonio (California State University, Stanislaus) and W. Huang (Institute of Vertebrate Paleontology and Paleoanthropology, Beijing, China).
- 2001-2003: Gerontomouri Cave (Minoan), Crete, Greece. Project Directors P.P. Betancourt (Temple University) and C. Davaras (University of Athens, Greece).
- 2001-2002: Palaeoenvironmental reconstruction of the Marathon Plain. In collaboration with K. Pavlopoulos (Harokopio University, Athens, Greece).
- 1999-2007: Neolithic site of Makri, Thrace, Greece. Project Director N. Efstratiou (University of Thessaloniki, Greece).
- 1999-2002: Chert provenance analysis for the identification of raw material sources in the Palaeolithic of Greece. In collaboration with Dr. J. Anousis (Nat. Center Scient. Res. «Demokritos»), Dr. E. Panagopoulou (EPS) and Dr. E. Adam (IB' EPKA).
- 1999-2001: Cave of Leivithrithon, Elikon Mountain, Greece (Neolithic, Classical). Project Director, Vivi Vasilopoulou (EPS).
- 1998-2000: Grotte XVI (Palaeolithic), Dordogne, France. In collaboration with S. Weiner (Weizmann Inst. Science, Israel). Project director J.-P. Rigaud (Inst. Quaternaire, Univ. Bordeaux I, France).
- 1998-2004: Neolithic lake-side settlement at Dispilio, Kastoria, Greece. Project Director G. Chourmouziadis (University of Thessaloniki, Greece).
- 1998-2001: Drakaina Cave (Neolithic, Chalkolithic, Classical), Kefallonia Island, Greece. Project Directors M. Chatioti and G. Stratouli (EPS).
- 1997-2015: Lakonis Cave complex, Peloponnese (Palaeolithic). Project Director, E. Panagopoulou (EPS).

- 1996-2005: Kouveleiki caves, Peloponnese (Neolithic). Project Director E. Stravopodi (EPS).
- 1995-1999: Theoperta Cave (Paleolithic, Mesolithic, Neolithic), Thessaly, Greece. Project Director N. Kyparissi-Apostolika (EPS).
- 1995-1997: Boila rockshelter (Palaeolithic), Epirus, Greece. Project Director E. Kotjabopoulou (EPS).
- 1994-1997: Regional georchaological project in Alonnisos Island (Paleolithic, Mesolithic), Greece. Project Director, E. Panagopoulou (EPS).

INVITED LECTURES- GUEST SPEAKER

2022. Geoarchaeological Seminars 2022. Universitij Katholik Louvain. March 16, 2022: Archaeological soil and sediment micromorphology as a tool for revealing activities, practices and behaviors.
2021. 9th Developing International Geoarchaeology Conference – DIG 2021; University of Algarve, Faro, Portugal, May 17-19: Sedimentary structure and fabrics: what we are overlooking.
- 2019: Univeristy of Cuprus, Department of History and Archaeology: Art and technique in the construction of the mumulus of Laona. A microstratigraphic approach. February 25.
- 2017: Leiden Univerisity, Faculty of Archaeology: “Geoarchaeological studies on a Bioarchaeological context”, After the Act – Microscopic apparoaches to activity patterns, adandonment and (post)depositional processes.
- 2017: The Cyprus Institute, Cyprus.
- 2016: Institute of Human Origin, Arizona University.
- 2014: Tübingen, Germany “*Contextualizing technological change and cultural evolution in the MSA of southern Africa*”, International workshop hosted by the Department of Early Prehistory and Quaternary Ecology of the University of Tübingen, September 8-10.
- 2014: Kalamata, Greece “4th Conference ARCH_RNT”, University of Peloponnese, 1-3 October.
- 2012: Tübingen, Germany “*Bridging Gaps: Integrating Geosciences within Archaeological Research*”, May 10-13.
- 2012: Kalamata, Greece “3rd Conference ARCH_RNT”, University of Peloponnese, 3-5 October.
- 2011: Knoxville, USA, Keynote lecture in “*Developing International Geoarchaeology*” conference, September 20-24, 2011.
- 2010: Barcelona, Spain “*Workshop on Site Formation and Postdepositional Processes*” 2-4 June.
- 2008: CNRS France, Aix-en Provence, International Meeting “*Geoarchaeology and Taphonomy*” 24-28 September.
- 2008: Porto Heli, Greece ‘*Workshop on Methodological Approaches to Geoarchaeology*’, 13th Belgium-France-Italy-Romania Geomorphological Meeting, 22-25 June.
2004. British School at Athens-Americal School of Classical studies at Athens: *Fitch-Wiener Labs seminar series ‘science-based archaeology’*.
- 1999: Departments of Anthropology and Classics, University of Cincinnati, USA: *Seminar in Technological Approaches to Archaeological Research*.

PUBLICATIONS

Summary

Author or editor of three books (one in Greek) and author or co-author of more than 150 scientific papers or chapters (20 of them in Greek) and about 80 oral presentations and posters in international conferences. About 100 of the publications are in top peer review journals such as *Nature*, *Science*, *PNAS*, *PLOS ONE*, *Science Advances*, *Journal of Human Evolution*, *Earth and Planetary Science Letters*, *Journal of Archeological Science*, *Journal of Archaeological Science, Reports*; *Geoarchaeology*, *Archaeological and Anthropological Sciences*, *Quaternary Science Reviews*, *Journal of Quaternary Science*, *Quaternary Geochronology*, *Quaternary International*, *Quaternary Research*; *Geomorphology*, *Radiocarbon*, *Antiquity*, *World Archeaeology*, and *Hesperia*.

BIBLIOMETRY (Google Scholar: 12/2022)

Number of citations: 8029

h-index: 46

h-index since 2018: 36

i10-index: 96

i10-index since 2018: 86

I. Books

1. Karkanias P., Goldberg P. 2019. *Reconstructing Archaeological Sites: Understanding the Geoarchaeological Matrix*. Wiley-Blackwell; ISBN: 978-1-119-01640-3.
2. Papathanassiou, A., Parkinson, W.A., Pullen, D.J., Galaty, M.L., Karkanias, P. (Eds.), 2018. *Neolithic Alepotrpa Cave in the Mani, Greece*. Oxbow Books. ISBN: 978-1-78570-648-6.
3. Karkanias, P. 2010. Introduction to Geoarchaeology. Nefeli. **(in Greek)**

II. Peer review journals

Published

1. Sourtanioti, E., ... Karkanias, P., et al. 2022. Ancient DNA reveals admixture history and endogamy in the prehistoric Aegean. **Nature Ecology and Evolution** (in press).
2. Lazaridis I., ... Karkanias, P., et al. 2022. The genetic history of the Southern Arc: A bridge between West Asia and Europe. **Science** 377, 939 (1-13).
3. Lazaridis I., ... Karkanias, P., et al. 2022. A genetic probe into the ancient and medieval history of Southern Europe and West Asia. **Science** 377, 940-951.
4. Lazaridis I., ... Karkanias, P., et al. 2022. Ancient DNA from Mesopotamia suggests distinct Pre-Pottery and Pottery Neolithic migrations into Anatolia. **Science** 377, 982-987
5. Stocker, S.R., McNamee, C., Vitale, S., Karkanias, P., Davis, J.L., 2022. The grave of the Griffin Warrior at Pylos. Construction, burial, and aftermath. **Hesperia** 91, 211-250.
6. Karkanias, P., 2021. All about wood ash: Long term fire experiments reveal unknown aspects of the formation and preservation of ash with critical implications on the emergence and use of fire in the past. **Journal of Archaeological Science** 135, 105476.

7. Gkouma, M., Karkanass, P., Iacovou, M. 2021. A geoarchaeological study of the construction of the Laona tumulus at Palaepaphos, Cyprus. **Geoarchaeology** 36, 601-616.
8. Karkanass, P., Marean, C., Bar-Matthews, M., Jacobs, Z., Fisher, E., Braun, K. 2021. Cave life histories of non-anthropogenic sediments help us understand associated archaeological contexts. **Quaternary Research** 99, 270-289.
9. Bludau, I.J.E, Papadopoulou, P., Iliopoulos, G., Weiss, M., Schnabel, E., Thompson, N., Tourloukis, V., Zachow, C., Kyrikou, S., Konidaris, G.E., Karkanass, P., Panagopoulou, E., Harvati, K., Junginger, A. 2021. Lake-Level Changes and Their Paleo-Climatic Implications at the MIS12 Lower Paleolithic (Middle Pleistocene) Site Marathousa 1, Greece. **Front. Earth Sci.** 9, 668445.
10. Starkovich, B.M., Elefanti, P., Karkanass, P., Panagopoulou, E. 2020. Site Use and Maintenance in the Middle Paleolithic at Lakonis I (Peloponnese, Greece). **Journal of Paleolithic Archaeology** 3, 157-186.
11. Harvati, K. Röding, C., Bosman, A.M., Karakostis, F.A., Grün, R., Stringer, Ch., Karkanass, P., Thompson, N.C., Koutoulidis, V., Mouloupoulos, L.A., Gorgoulis, V.G., Kouloukoussa, M. 2019. Apidima Cave fossils provide earliest evidence of Homo sapiens in Eurasia. **Nature** 571, 500-504.
12. Carter, T., Contreras, D., A., Holcomb, J., Mihailović, D., D., Karkanass, P., Guérin, G., Taffin, N., Athanasoulis, D., Lahaye, C., 2019. Earliest occupation of the Central Aegean (Naxos), Greece: Implications for hominin and Homo sapiens' behavior and dispersals. **Science Advances**, 5 (10): eaax0997
13. Karkanass, P., Berna, F., Fallu, D., Gauß, W. 2019. Microstratigraphic and mineralogical study of a Late Bronze Age updraft pottery kiln, Kolonna site, Aegina Island, Greece. *Anthropological and Archaeological Sciences* 11, 5763–5780.
14. Holcomb, J., Karkanass, P. 2019. Elemental mapping of micromorphological block samples using portable X-ray fluorescence spectrometry (pXRF): Integrating a geochemical line of evidence. **Geoarchaeology** 34, 613-624.
15. Karkanass, P., 2019. Microscopic deformation structures in archaeological contexts. **Geoarchaeology** 34, 15-29.
16. Karkanass, P., Tourloukis, V., Thompson, N., Giusti, D., Panagopoulou, E., Harvati, K., 2018. Sedimentology and micromorphology of the Lower Palaeolithic lakeshore site Marathousa 1, Megalopolis basin, Greece. **Quaternary International** 497, 123-136.
17. Jacobs, Z., Li, B., Karkanass, P., Tourloukis, V., Thompson, N., Panagopoulou, E., Harvati, K., 2018. Beyond maps: Optical dating of K-feldspar grains from Middle Pleistocene lacustrine sediment at Marathousa 1 (Greece). **Quaternary International** 497, 170-177.
18. Giusti, D., Tourloukis, V., Konidaris, E., Thompson, N., Karkanass, P., Panagopoulou, E., Harvati, K., 2018. Beyond maps: Patterns of formation processes at the Middle Pleistocene open-air site of Marathousa 1, Megalopolis basin, Greece. **Quaternary International** 497, 137-153.
19. Tourloukis, V., Muttoni, G., Karkanass, P., Mones, E., Scardia, G., Panagopoulou, E., Harvati, K., 2018. Magnetostratigraphic and chronostratigraphic constraints on the Marathousa 1 Lower Palaeolithic site and the Middle Pleistocene deposits of the Megalopolis basin, Greece. **Quaternary International** 497, 47-64.
20. Tourloukis, V., Thompson, N., Panagopoulou, E., Giusti, D., Konidaris, G., E., Karkanass, P., Harvati, K., 2018. Lithic artifacts and bone tools from the Lower Palaeolithic site Marathousa 1, Megalopolis, Greece: Preliminary results. **Quaternary International** 497, 47-64.

21. Panagopoulou, E., Tourloukis, V., Thompson, N., Konidaris, G., Athanassiou, A., Giusti, D., Tsartsidou, G., Karkanias, P., Harvati, K., 2018. The Lower Palaeolithic site of Marathousa 1, Megalopolis, Greece: Overview of the evidence. **Quaternary International** 497, 33-46.
22. Field, M., H., Ntinou, M., Tsartsidou, G., van Berge Henegouwen, D., Risberg, J., Tourloukis, V., Thompson, N., Karkanias, P., Panagopoulou, E., Harvati, K., 2018. A palaeoenvironmental reconstruction (based on palaeobotanical data and diatoms) of the Middle Pleistocene elephant (*Palaeoloxodon antiquus*) butchery site at Marathousa, Megalopolis, Greece. **Quaternary International** 497, 108-122.
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124. Strasser, T., E. Panagopoulou, P. Karkanias, C. DiGregorio, M. Clinton, N. Thompson, E. Kapranos, and S. Murray. 2015. "The Excavation at Mesolithic Damnoni in the Agios Vassilios Region: A New Chronological/Cultural Period on

- Crete,” in *Αρχαιολογικό Έργο Κρήτης 3. Πρακτικά της 3ης Συνάντησης, Πέθυμνο, 5–8 Δεκεμβρίου 2013*, P. Karanastasi, A. Tzigounaki, and C. Tsigonaki, eds., Rethymnon, pp. 271–280.
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V. Non-peer reviewed Greek Publications

Papers/chapters/proceedings

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133. Pavlopoulos, K., Triantaphyllou, M., Markou, D., Apostolopoulos G., Karkanas, P., Kouli, K., Kapsimalis. V. 2015. Paleogeographic reconstruction of the Palamari

- Prehistoric settlement area (NE Skyros Island, Aegean Sea), In: L. Parlama and M. Theochari (eds), *The Fortified Prehistoric Settlement at Palamari, Skyros*. Athens, Epistimoniki Epitropi Ergou Palamariou Skyrou, SAITIS AE, pp. 189-200.
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VI. Papers in preparation

152. Karkanas, P. Geoarcheological analysis of Mycenae. In: Ch. Maggidis (ed.), *The Lower Town of Mycenae: Geophysical Survey 2003-2012* (vol. 1).

VII. Presentations/Abstracts

1. Karkanas, P. 2022. Lessons from a long term wood fire experiment. In 28th EAA Annual Meeting, Budapest. August 31-September 3, 2022.
2. Goldberg, P. Karkanas, P. 2022. Seeing stratigraphy. In 87th Annual Meeting of the Society for American Archaeology, Chicago, March 30-April 3, 2022.
3. (Key-note) Karkanas, P. 2021. Sedimentary structure and fabrics: what we are overlooking. In 9th Developin International Geoarchaeology Conference – DIG 2021; University of Algarve, Faro, Portugal, May 17-19.
4. Holcomb, J.A., Shillito, L-M., Wegman, K., Karkanas, P., Jenkins, D. 2021. Microarchaeological approaches to the identification of the Younger Dryas in the northern Great Basin. In 86th Annual Meeting of the Society of American Archaeology, Virtual, 15-17 May, 2021.
5. Gkouma, M., Karkanas, P., Papadatos, Y., Brogan, T., Sofianou, Ch. 2021. In search of a lost city: a geoarchaeological study of Minoan habitation near Ierapetra. In Society and Environment in Bronze Age Crete – Recent Geoarchaeological Researches, workshop, Athens, 16 November, 2021.
6. Bludau, I.J.E, Weiss, M., Schnabel, E., Thompson, N., Turloukis, V., Karkanas, P., Panagopoulou, E., Harvati, K., Junginger, A. 2020. Lake level changes at the mid-Pleistocene Marathousa excavation site in southern Greece and their paleo-climatic implications. In European Geoscience Union – EGU General Assembly 2020 - Online 4–8 May 2020.
7. Kranis, H., Skourtsos, E., Davis, G., Karkanas, P., Turloukis, V., Panagopoulou, E., and Harvati, K. 2020. Switch-on, switch-off: Plio-Quaternary evolution of the Megalopolis Basin (Southern Greece), through structural overprinting, interaction and fault migration. In European Geoscience Union - EGU General Assembly 2020, Online, 4–8 May 2020.
8. Moutafi, I., Galanakis, Y., Karkanas, P. 2020. It all starts in the field: How to improve the excavation of human remains in Mycenaean mortuary contexts and why it matters. Archaeological Institute of America 121st Annual Meeting, Washington, D.C. 2020, 2-5 January.
9. Karkanas, P., Gkouma, M. 2020. Perspectives on the role of microstratigraphy in archaeological research. In *Archaeological Science Methods in the Field and in the*

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10. Moutafi, I., Keramidas, S., Karkanias, P. 2019. A unique Early Bronze Cycladic cremation from Dhaskalio, Keros, and the special challenges of its study, interpretation and exhibition. In “they are not silent after all... Human remains in archaeological museums - ethics and displays; International conference, Directory of Archaeological Museums, Ministry of Culture and Sports of Greece, Athens 31 October – 1 November.
11. Karkanias, P., Stocker, S., Davis, J., 2019. Microstratigraphic and geochemical contributions to the study of the burial practices and taphonomy of the Mycenaean shaft grave of the ‘Griffin Warrior’, Pylos, Greece. In 7th Symposium on Archaeometry of the Hellenic Society for Archaeometry (HSA), Athens, 9-12 October 2019
12. Carter, T., Contreras, D., Holcomb, J., Mihailović, D., Karkanias, P., Guérin, G., Taffin, N., Athanasoulis, D., Lahaye, C. 2019. A Mid-Holocene to Middle Pleistocene Stratigraphic Sequence from Stelida, Naxos. In AIA 120th Annual Meeting, January 4th-7th, San Diego, Gold Medal Colloquium in Honor of Curtis Runnels.
13. Karkanias, P., Stocker, S., Davis, J., 2018. Microstratigraphic and geochemical contributions to the study of the burial practices and taphonomy of the Mycenaean shaft grave of the ‘Griffin Warrior’, Pylos, Greece. In SAA 83rd Annual Meeting, April 11-15, Washington, DC.
14. Harvati, K., Panagopoulou, E., Turloukis, V., Thompson, N., Karkanias P., Konidaris, G., Athanassiou, A., Tsartsidou, G., Giusti, D., 2017. Marathousa 1: New Lower Paleolithic elephant butchering site from the Megalopolis basin, Greece. 7th Annual Meeting of The European Society for the Study of Human Evolution, 21-23 September, 2017, Leiden, Netherlands.
15. Carter, T., Athanasoulis, D., Contreras, G., Holcomb, J., D. Mihailović, D., Karkanias, P., Moutsiou, T., Campeau, K., Feathers, J., Pitt, Y. 2017. Early Humans in the Aegean: Survey and Excavation at Stélida, Naxos 2013-17. ‘Les travaux archéologiques dans les Cyclades, colloque international, Athens 22-26th, Nov. 2018.
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17. Vaiglova, P., Bogaard, A., Karkanias, P., Pappa, M., Cattle for the feast: using multiple isotopes to understand the origins and lives of cattle consumed at Late Neolithic Makriyalos. In 81st Annual Meeting of the Society for American Archaeology, 2016, Orlando, USA.
18. Cawthra, H.C., Compton, J.S., Fisher, E.C., Jacobs, Z., Karkanias, P., Marean, C.W. An onshore-offshore record of sedimentation and shoreline shift through two glacial-interglacial cycles. In 35th International Geological Congress. 27 August - 4 September 2016, Cape Town, South Africa.
19. Parkinson W., Papathanassiou, A., Pullen, D., Karkanias, P., Galaty, M.L., Papathanassopoulos, G. 2016. The Diros project: Multidisciplinary investigations at Alepotryap Cave and Ksagounaki promontory, 2010-2015. In AIA 2016 Annual Meeting, San Francisco, 6-9, January.

20. Tourloukis V. Karkanias P. 2016. The geoarchaeology of Palaeolithic sites with terra rossa: research questions and prospects. In 1st INTERNATIONAL CONFERENCE ON THE ARCHAEOLOGY & HISTORY OF THESPROTIA, December 8-11, Igoumenitsa, Greece.
21. (Discussand) Karkanias P., 2015. The preservation of organic remains in the Aegean. AIA colloquium Session (organizers: F. Dibble, D. Fallu and O. Jones). In *AIA 2015 Annual Meeting*, New Orleans, 8-11, January.
22. Ciravolo, A., Ren, M., Johnsen, R., Karkanias, P., Marean, C., W., Fisher, E., C. Lane, C., 2015. Youngest Toba Tuff (~74 ka) cryptotephra identified in an archaeological site at Pinnacle Point, South Africa, In 2015 Geological Society of America Annual Meeting Annual Meeting, Baltimore, Maryland, USA, 1-4 November.
23. Marean C. W., Karkanias, P. 2015. Cave life histories of non-anthropogenic sediments help us “raise the bar” in our understanding of anthropogenic sediments. In *SAA 80th Annual meeting*, San Francisco, 15-19 April.
24. Karkanias, P., Brown, K.S., Fisher, E.C., Jacobs, Z., Marean, C.W. 2015. Micromorphology Reveals Changing Levels of Site Occupation Intensity at Pinnacle Point 5-6. In *SAA 80th Annual meeting*, San Francisco, 15-19 April.
25. Smith, E., Ciravolo, A., Ren, M., Karkanias, P., Marean, C.W. 2015. Cryptotephra Discovered at Pinnacle Point Site 5-6 May Correlate with the 74 ka Eruption of Toba in Indonesia: Implications for Resolving the Dating Controversy for Middle Stone Age Sites in Southern Africa. In *SAA 80th Annual meeting*, San Francisco, 15-19 April.
26. Jacobs, J., Marean, C.W., Fisher, E., Karkanias, P., Cawthra, H. A high-resolution single grain optically stimulated luminescence chronology for Pinnacle Point site 5-6. *Paleoanthropology Society 2015 Meeting*, San Francisco, 14-15 April.
27. Parkinson, W., Papathanasiou, A., Galaty, M., Pullen, D., Karkanias, P., Papathanassopoulos, G. 2014. Diros in context: communities, landscapes, and interaction in the Late Neolithic of the southern Greece. In *Communities, Landscapes and Interaction in Neolithic Greece, International Conference*, Rethymno 29-30 May
28. (invited) Karkanias, P. 2014. Site Formation Processes of the Neolithic Alepotrypa Cave, Mani, Greece. In Kalamata, Greece “4th Conference ARCH_RNT”, University of Peloponnese, 1-3 October.
29. Pullen, D., Papathanasiou, A., Parkinson, W., Karkanias, P., Galaty, M., 2014. Alepotrypa Cave and its Regional Context in the Late and Final Neolithic Aegean. In *SAA 79th Annual Meeting*, Austin, Texas. April 23 - April 27.
30. (invited) Karkanias, P. 2014. Interpreting human behavior from the study of sediments at site Pinnacle Point 5-6, South Africa. In “*Contextualizing technological change and cultural evolution in the MSA of southern Africa*, International workshop hosted by the Department of Early Prehistory and Quaternary Ecology of the University of Tübingen, September 8-10.
31. Smith, E., Ciravolo, A., Karkanias, P., Marean, C., Fisher, E., Cleghorn, N., Lane, C., Ren, M. 2014. Cryptotephra Possibly from the 74 ka Eruption of Toba Discovered at Pinnacle Point, South Africa: Implications for Resolving the Dating Controversy for Middle Stone Age Sites in Southern Africa. In *23rd Annual Meetings of the Paleoanthropology Society*, Calgary, Alberta, Canada, April 8-9.
32. Strasser, T., Panagopoulou, E., Karkanias, P., Klinton, M., Kapranos, E., Thompson, N., Murray, S. 2013. The Excavation at Mesolithic Damnoni in the Ayios Vassilios Region: A New Culture on Crete. In: *3rd Meeting for the Archaeological Work in Crete*. 5 – 8.12.2013, Rethymno, Crete, Greece.

33. Karkanas, P., Berna, F., Walter, G. and Fallu, D.J. 2013. Microstratigraphic Study of a Middle Bronze Age Updraft Pottery Kiln, Kolonna, Aegina, Greece. *114th Annual Meeting, Archaeological Institute of America, Sheattle*, January 3-6.
34. Papathanassopoulos, G., Parkinson, W., Papathanasiou, A., Galaty, M., Pullen, D.J., and Karkanas, P. 2013. The Diros Project, 2012: Survey and Excavation in the Western Mani Peninsula, Southern Greece. *114th Annual Meeting, Archaeological Institute of America, Sheattle*, January 3-6.
35. Van De Moortel, A., and Karkanas, P. 2013. Micromorphological Analysis of Sediments at the Bronze Age and Early Iron Age Site of Mitrou, East Lokris: Patterns of Floor Construction and Maintenance. *114th Annual Meeting, Archaeological Institute of America, Sheattle*, January 3-6.
36. Stratouli, G. Sarpaki, A., Ntinou, M., Kotzabopoulou, E., Theodoropoulou, T., Melfos, V., Andreassen, N. and Karkanas, P. 2012. Culture encapsulated in environmental data: approaches to understanding the Neolithic use of Drakaina Cave at Kefalonia Island, western Greece. *14e Rencontre Égéenne Internationale, PHYSIS, Institut National d'Histoire de l'Art (INHA)*, Paris, 11-14 December.
37. Zacharias, N., Karkanas, P., Koumouzelis, M., Stiner, M., Polymeris, G., Absolute dating and stratigraphic data of the sedimentary sequence of the Palaeolithic Klissoura Cave 1, Argolis. International Conference The Archaeological Work in Peloponnese (1st AEPEL), Tripolis, November 7-11, 2-12.
38. (invited) Panagopoulou, E., Karkanas, P. 2012: The Palaeolithic of insular Greece. *International Symposium Human Evolution in the Southern Balkans* Tübingen, 06 – 08 December 2012.
39. (invited) Karkanas, P. 2012. Reconsiderations for Burial Contexts Based on Micromorphological Research: Approaches for Mycenaean Chamber Tombs. *3rd Conference ARCH_RNT*, University of Peloponnese, Kalamata, 3-5 Οκτωβρίου 2012.
40. Facorellis Y., Karkanas, P., Higham, T., Brock, F., Ntinou, M. and Kyprissi-Apostolika, N. 2012. Interpreting radiocarbon dates from the Palaeolithic layers of the Theopetra Cave in Thessaly, Greece. *21st International Radiocarbon Conference*, Paris, France, 9 - 13 July 2012.
41. (invited) Karkanas, P. 2012. Interdisciplinary problems in managing different scales of observation. Workshop: *Bridging Gaps: Integrating Geosciences within Archaeological Research*, Tübingen, Germany, May 10-13, 2012.
42. Herries, A.I.R., Pickering, R., Karkanas, P., Kappan, P., Jacobs, Z., Bar Matthews, M., Fisher, E., Marean, C.W. 2012. The direct U-Pb dating of geomagnetic reversals and excursions in speleothem from Pinnacle Point, South Africa. Magnetic Relaxations conference 2012. Jan. 4th-5th 2012. University of Liverpool, UK. Abstracts pp. 17.
43. Strasser, T.F., Panagopoulou, E., Karkanas, P., Kapranos, E., Marshall, G., DiGregorio, Ch., Clinton, M.G., George, G., and Mersereau, R. The Damnoni Excavation: Mesolithic Remains from Southwest Crete, In *2012 Archaeological Institute of America and American Philosophical Association Joint Annual Meeting*, Philadelphia, January 6-8, 2012.
44. Brown, K. S., Marean, C. W., Jacobs, Z., Bernatchez, J., Karkanas, P., Oestmo, S. and Schoville, B. J. 2012. A Pre-Howiesons Poort small backed blade MSA occurrence at Pinnacle Point. Palaeoanthropology Society 2011 Annual meeting, Minneapolis, Minnesota.
45. (invited) Karkanas P. 2011. Micromorphological analysis of sediments at the Bronze Age site of Mitrou, central Greece: patterns of floor construction and maintenance.

- Developing International Geoarchaeology* conference, Knoxville, USA, September 20-24, 2011.
46. Smith, A., Dabney, M.K., Pappi, E., Karkanas, P., Triantaphyllou, S., Wright, J. 2011. The Excavation of Mycenaean Chamber Tombs at Barnavos and Ayia Sotira in the Nemea Valley. *Death, Decay, and Discovery, An interdisciplinary workshop on taphonomic approaches to understanding burial practice*, Joukowsky Institute for Archaeology and the Ancient World, Brown University, April 8 - 10, 2011.
 47. Douka, K., Perlès, C., Karkanas, P., and Panagopoulou, E. 2011. Greece. *Time for the Palaeolithic: Radiocarbon dating and the Middle to Upper Palaeolithic of Europe*, St Antony's College Oxford April 14-16, 2011.
 48. (invited) Karkanas, P. 2010. *Evaluation of the preservation state of archaeological materials: methods and techniques* Barcelona, Spain "Workshop on Site Formation and Postdepositional Processes" 2-4 June, 2010.
 49. Bar-Matthews, M., Marean, C.W., Jacobs, Z., Karkanas, P., Fisher, E.C., Herries, A.I.R., Brown, K., Williams, H.M., Bernatchez, J., Ayalon, A., and Nilssen, P.J. 2009. A high resolution speleothem record of variable climate and environment 90-53,000 years ago from Pinnacle Point (south coast South Africa) and bearing on modern human origins and floral diversity. *Southern African Society for Quaternary Research, SASQUA XVIII Biennial Congress 2009*. Knysna, Western Cape, South Africa, 6 to 10 September 2009.
 50. (invited) Karkanas, P. 2008: *Preservation of anthropogenic materials under different geochemical processes*. CNRS France, Aix-en Provence, International Meeting "Geoarchaeology and Taphonomy" 24-28 September, 2008.
 51. (invited) Karkanas, P. 2008. Geoarchaeological research at the scale of the archaeological site. *13th Belgium-France-Italy-Romania Geomorphological Meeting: Landscape Evolution and Geoarchaeology*. June 18-21, Porto Heli, Greece.
 52. Mavridis, F., Kormazopoulou, L., Apostolikas, O., Papadea, A., Yamaguchi, D., Tankosic, Z., Kotzamani, G., Trantalidou, K., Karkanas, P. and Maniatis Y. 2008. The Cave at Schisto, Keratsini: A Case of Diachronic Cave Occupation in Attica. *New Research in Greek Caves*. Irish Institute of Hellenic Studies in Athens. 24 May 2008, Athens.
 53. Bar-Matthews, M., Marean, C. W., Karkanas, P., Jacobs, Z., Fisher, E., Herries, A. I. R., Ayalon, A. and Schilman, B. (2008). A high-resolution and continuous isotopic speleothem record of paleoclimate and paleoenvironment from 92-55 ka from Pinnacle Point, South Africa. *73rd Annual Meeting of the Paleoanthropology Society*. Vancouver, British Columbia, March 25 - March 26, 2008.
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