

Name: Andrea Zupancich

Date of Birth: 1987 ORCID: 0000-0002-9503-1234

CURRENT POSITION

Marie Skłodowska Curie Individual Fellow -MSCA-IF (G.A. 10130754)

at the Institución Milá y Fontanals, Consejo Superior de Investigaciones Científicas (IMF-CSIC).

PAST POSITIONS

Postdoctoral Researcher (2017 -2021) at the Laboratory of Diet and Ancient Technology (DANTE) part of the ERC Funded Project “Hidden Foods” (G.A. no. 639286) under the direction of Dr Emanuela Cristiani.

EDUCATION

Tel Aviv University, Department of Archaeology and Near Eastern Studies (Tel Aviv, Israel)

21/07/2020. PhD with a research project on the use wear analysis of Quina scrapers from Middle Pleistocene site of Qesem Cave (Israel).

Supervised by Prof. Avi Gopher, Prof. Ran Barkai and Prof. Cristina Lemorini

Institute of Archaeology – University College London (London, United Kingdom)

01/11/2011 - MSc in Palaeoanthropology and Palaeolithic Archaeology. Graduated with merit with a dissertation based on use-wear analysis on percussion materials in the African Early Stone Age.

Supervised by Prof. Ignacio de la Torre

Università "Sapienza" di Roma (Roma, Italy)

30/06/2010 - B.A. in Archaeological Sciences. Graduated *cum laude* with a dissertation in Experimental Archaeology based on a six months’ study of Oldowan artifacts from the Lower Palaeolithic site of Kanjera South, Kenya, Africa.

Supervised by Prof. Cristina Lemorini

PUBLICATIONS

Peer Reviewed Journals

1. Zupancich, A., Cristiani, E., Gopher, A., Ibáñez, J.J., 2023. Human-plant interaction at the onset of agriculture: the PATH project. *Antiquity* 97, e26.
2. Delpiano, D., Zupancich, A., Bertola, S., Martellotta, E.F., Livraghi, A., Cristiani, E., Peresani, M., 2022. Flexibility within Quina lithic production systems and tool-use in Northern Italy: implications on Neanderthal behavior and ecology during early MIS 4. *Archaeol. Anthropol. Sci.* 14, 219.

3. González-Rabanal, B., Marín-Arroyo, A.B., Cristiani, E., Zupancich, A., González-Morales, M.R., 2022. The arrival of millets to the Atlantic coast of northern Iberia. *Sci. Rep.* 12, 1–12.
4. Gravel-Miguel, C., Cristiani, E., Hodgkins, J., Orr, C.M., Strait, D.S., Peresani, M., Benazzi, S., Pothier-Bouchard, G., Keller, H.M., Meyer, D., Drohobytsky, D., Talamo, S., Panetta, D., **Zupancich, A.**, Miller, C.E., Negrino, F., Riel-Salvatore, J., 2022. The Ornaments of the Arma Veirana Early Mesolithic Infant Burial. *Journal of Archaeological Method and Theory*. <https://doi.org/10.1007/s10816-022-09573-7>
5. Carra, M., **Zupancich, A.**, Fiorin, E., Sarti, L., Lo Vetro, D., Martini, F., Cristiani, E., 2022. Plant foods in the Late Palaeolithic of Southern Italy and Sicily: Integrating carpological and dental calculus evidence. *Quaternary International*. <https://doi.org/10.1016/j.quaint.2022.06.007>
6. Cristiani, E., Radini, A., **Zupancich, A.**, Gismondi, A., D'Agostino, A., Ottoni, C., Carra, M., Vukojičić, S., Constantinescu, M., Antonović, D., Price, T.D., Borić, D., 2021. Wild cereal grain consumption among Early Holocene foragers of the Balkans predates the arrival of agriculture. *Elife* 10, 2021.10.14.464411. <https://doi.org/10.7554/eLife.72976>
7. Peresani, M., Bertola, S., Caricola, I., Nunziante Cesaro, S., Duches, R., Ferretti, P., Margaritora, D., Marrocchino, E., Eftekhari, N., Vaccaro, C., **Zupancich, A.**, Cristiani, E., 2021. A taste for the unusual. Green, flat pebbles used by late Neanderthals. *Journal of Anthropological Archaeology* 64, 101368. <https://doi.org/10.1016/j.jaa.2021.101368>
8. Cristiani, E., **Zupancich, A.**, Duches, R., Carra, M., Caricola, I., Fontana, A., Flor, E., Fontana, F., 2021. Non-flaked stones used in the Mesolithic Eastern Alpine Region: A functional assessment from Romagnano Loc III and Pradestel sites. *J. Archaeol. Sci. Rep.* 37, 102928. <https://doi.org/10.1016/j.jasrep.2021.102928>
9. **Zupancich, A.**, Shemer, M., Barkai, R., 2021. Biface use in the Lower Paleolithic Levant: First insights from late Acheulean Revadim and Jaljulia (Israel). *J. Archaeol. Sci. Rep.* 36, 102877. <https://doi.org/10.1016/j.jasrep.2021.102877>
10. Nava, A., Fiorin, E., **Zupancich, A.**, Carra, M., Ottoni, C., Di Carlo, G., Vozza, I., Brugnoletti, O., Alhaique, F., Cremonesi, R.G., Coppa, A., Bondioli, L., Borić, D., Cristiani, E., 2021. Multipronged dental analyses reveal dietary differences in last foragers and first farmers at Grotta Continenza, central Italy (15,500–7000 BP). *Sci. Rep.* 11, 4261. <https://doi.org/10.1038/s41598-021-82401-2>
11. Mazur, M., Marasca, R., Ottolenghi, L., Vozza, I., Covello, F., **Zupancich, A.**, Cristiani, E., Nava, A., 2020. Different Resorptive Patterns of Two Avulsed and Replanted Upper Central Incisors Based on Scanning Electron Microscopy and Stereomicroscopic Analysis: A Case Report. *NATO Adv. Sci. Inst. Ser. E Appl. Sci.* 10, 3551. <https://doi.org/10.3390/app10103551>
12. Cristiani, E., **Zupancich, A.** (2020) Sandstone Ground Stone Technology: a Multi-level Use Wear and Residue Approach to Investigate the Function of Pounding and Grinding Tools. *Journal of Archaeological Method and Theory*. <https://doi.org/10.1007/s10816-020-09488-1>

13. Lemorini, C., Cristiani, E., Cesaro, S., Venditti, F., **Zupancich, A.** & Gopher, A. (2020) The use of ash at Late Lower Paleolithic Qesem Cave, Israel—An integrated study of use-wear and residue analysis. *PLoS ONE* 15(9): e0237502. <https://doi.org/10.1371/journal.pone.0237502>
14. **Zupancich, A.** and Cristiani, E. (2020). Functional analysis of sandstone ground stone tools: arguments for a qualitative and quantitative synergetic approach. *Scientific Reports*. <https://doi.org/10.1038/s41598-020-72276-0>
15. Agam, A. and **Zupancich, A.** (2020). Interpreting the Quina and demi-Quina scrapers from Acheulo-Yabrudian Qesem Cave, Israel: Results of raw materials and functional analyses. *Journal of Human Evolution*, 144, 102798. <https://doi.org/10.1016/j.jhevol.2020.102798>
16. Delpiano, D., **Zupancich, A.** & Peresani, M. (2019). Innovative Neanderthals: Results from an integrated analytical approach applied to backed stone tools. *Journal of Archaeological Science*, 110, 105011. <https://doi.org/10.1016/j.jas.2019.105011>
17. **Zupancich, A.** et al. (2019). “The Application of 3D Modeling and Spatial Analysis in the Study of Groundstones Used in Wild Plants Processing.” *Archaeological and Anthropological Sciences*, April. <https://doi.org/10.1007/s12520-019-00824-5>.
18. Cristiani, E, Radini, A., Borić, D., Robson, H.K., Caricola, I., Carra, M., Mutri, G., Oxilia, G., **Zupancich, A.**, Šlaus, M. and Vujević, D. (2018). “Dental Calculus and Isotopes Provide Direct Evidence of Fish and Plant Consumption in Mesolithic Mediterranean.” *Scientific Reports* 8 (1): 8147. <https://doi.org/10.1038/s41598-018-26045-9>.
19. Caricola, I., **Zupancich, A.**, Moscone, D., Mutri, G., Falcucci, A., Duches, R., Peresani, M. and Cristiani, E. (2018). “An Integrated Method for Understanding the Function of Macro-Lithic Tools . Use Wear , 3D and Spatial Analyses of an Early Upper Palaeolithic Assemblage from North Eastern Italy.” *PloS One*, 1–46. <https://doi.org/http://doi.org/10.1371/journal.pone.0207773>.
20. **Zupancich, A.**, et al. (2018). “On the Function of Late Acheulean Stone Tools: New Data From Three Specific Archaeological Contexts at the Lower Palaeolithic Site of Revadim, Israel.” *Lithic Technology* 43 (4): 255–68. <https://doi.org/10.1080/01977261.2018.1523098>.
21. **Zupancich, A.** et al. (2016). Early evidence of stone tool use in bone working activities at Qesem Cave, Israel. *Scientific Reports*, 6, pp.1–7. <https://doi.org/10.1038/srep37686>
22. **Zupancich, A.**, et al. (2015) On Quina and demi-Quina scraper handling: Preliminary results from the late Lower Paleolithic site of Qesem Cave, Israel, *Quaternary International* (2015). <http://dx.doi.org/10.1016/j.quaint.2015.10.101>
23. Lemorini, C., Bourguignon, L., **Zupancich, A.**, Gopher, A. & Barkai, R. (2015). A scraper’s life history: Morpho-techno-functional and use-wear analysis of Quina and demi-Quina scrapers from Qesem Cave , Israel. *Quaternary International*, 1–8. <https://doi.org/10.1016/j.quaint.2015.05.013>
24. Nicoud, E., Aureli, D., Pagli, C., Villa, V., Chausse, C., Agostini, S., Bahain, J-J., Boschian, G., Degeai, J-P., Fusco, F., Giaccio, B., Hernandez, M., Kuzucuoglu, C., Lahaye, C., Lemorini,

C., Limondin-Lozouet, N., Mazza, P., Mercier, N., Nomade, S., Pereira, A., Robert, V., Rossi, M A., Virmoux, C. and **Zupancich, A.** (2016). Preliminary data from Valle Giumentina Pleistocene site (Abruzzo, Central Italy): a new approach to a Clactonian and Acheulian sequence. *Quaternary International*, 409, 182-194. <http://dx.doi.org/10.1016/j.quaint.2015.08.080>

25. Solodenko, N., **Zupancich, A.**, Nunziante Cesaro, S., Marder, O., Lemorini, C. and Barkai, R. (2015). Fat Residue and Use-Wear Found on Acheulian Biface and Scraper Associated with Butchered Elephant Remains at the Site of Revadim, Israel. *PloS One*, 1–17. <http://doi.org/10.1371/journal.pone.0118572>
26. de la Torre, I., Benito-Calvo, A., Arroyo, A., **Zupancich, A.** and Proffitt, T. (2013). Experimental protocols for the study of battered stone anvils from Olduvai Gorge (Tanzania). *Journal of Archaeological Science*, 40(1), 313–332. <http://doi.org/10.1016/j.jas.2012.08.007>

Chapters in Edited Volumes

1. Cristiani, E., **Zupancich, A.** and Cvitkušić, B. (2020) *Combining microscopic analysis and GIS to analyse experimental perforations on *Columbella rustica* shells*. In M. Mărgărit (ed.) *Beauty and the Eye of the Beholder: Personal Adornments Across the Millennia*, 27–40. Târgoviște, Cetatea de Scaun Publishing.

COMMISSIONS OF TRUST

2023 to date - Guest Editor for Special Issue of the Journal of Archaeological Science: Reports “*Tracing Social Dynamics*”

2020 - Guest Editor for Volume 33 of the Journal of Archaeological Science: Reports “*Quantitative Approaches to Use Wear and Residue Analysis for the Study of Prehistoric Stone Technology*”

ORGANISATION OF SCIENTIFIC CONFERENCES AND WORKSHOPS

2024 – Co-organiser of the international workshop 10th Seminar of Prehistoric Technology “*Residue Analysis of Artefacts and Archaeological Contexts*”, IMF-CSIC Barcelona (Spain), 13th-15th September 2023.

2022 – Co-organiser of the international workshop “Confocal Microscopy for the analysis of wear on tools and teeth in Prehistory” 9th Seminar of Prehistoric Technology at the IMF-CSC, 2nd - 4th May 2022 Barcelona (Spain).

2022 - Co-Organiser of the international conference "Tracing Social Dynamics" Association of Archaeological Wear and Residues Analysts - AWRANA. 4th - 7th April 2022, Barcelona (Spain).

INVITED INTERNATIONAL CONFERENCE PRESENTATIONS

Developing guidelines, protocols, and a collaborative platform for use-wear analysis. ICAREHB, Faro (Portugal), 22nd – 24th November 2023.

Zupancich, A. *Integrating multiple analytical techniques to reconstruct ancient human-plant interaction.*

10th Seminar of the Doctoral School in Archaeology. Sapienza University of Rome, Rome (Italy) 22nd February 2023.

Zupancich, A. *Disclosing the role of plants in prehistoric lifeways through archaeological and bio archaeological evidence.*

XVII World UISSP Congress Burgos (Spain), 1-7 September 2014.

Zupancich, A., Lemorini, C., Barkai, R. & Gopher, A. “On scrapers handling: Preliminary Results from the Lower Palaeolithic site of Qesem Cave (Israel)”.

Lemorini, C., Bourguignon, L., **Zupancich, A., Gopher, A., & Barkai, R.** “A Scraper Life History: Use Wear Analysis of Yabrudian and Amudian Scrapers from Qesem Cave (Israel)”.

INTERNATIONAL CONFERENCE PRESENTATIONS

4th Meeting of the Association for Ground Stone Tools Research. Paris (France) 26-28 April 2023.

Zupancich, A., Cristiani, E., Gopher, A., Ibáñez, J.J. *Ground stone tools, legumes and lifeways in the Pre-Pottery Neolithic: A view from the Southern Levant.* Anthropological insights into Ground Stone technologies.

10th International Conference of the Chipped and Ground Stone Industries of the Near East – PPN10, October 2022, Copenhagen (Denmark).

Zupancich, A., Cristiani E., Gopher, A. & Ibáñez, J-J. “Qualitative and quantitative use-wear and residue approaches on ground stone tools for understanding wild plant consumption at the onset of agriculture in the Levant”.

28th Annual Meeting of the European Association of Archaeologists (EAA), 31st August - 3rd September 2022 Budapest (Hungary).

Zupancich, A., Cristiani E. & Gopher, A. "Plant-Human interactions among Levantine pre-agricultural communities revealed through ground stone tools and dental calculus analyses"

"Microarchaeology: making visible the invisible archaeological record through high-resolution integrated approaches" 26th - 27th May 2022 EEHAR Rome (Italy).

Zupancich A., Cristiani, E., Ibáñez, J. J. & Gopher, A. "Groundstone tools and dental calculus as means to investigate the use of wild plants in the Levant at the dawn of agriculture"

2022 – “Tracing Social Dynamics” AWRANA Meeting, 4th- 7th April, Barcelona (Spain)
Zupancich, A., Cristiani E., Carra M. & Boric D. "Non-flaked tools and dental calculus reveal evidence for plant food consumption and technology in the Mesolithic Danube Gorges".

10th International Conference on the Mesolithic in Europe “MESO 2020”. 7th - 11th 2020 September Toulouse (France).

Zupancich, A., Cristiani, E., Antonovic, D. & Boric, D. "Qualitative and quantitative experimental data for understanding functional biographies of quartzite macro tools from Mesolithic Danube Gorges"

25th Annual Meeting of the European Association of Archaeologists (EAA), 4-7 September 2019, Bern (Switzerland)

Zupancich, A, Caricola, I., Mutri, G., Carra, M., Radini, A. and Cristiani, Emanuela. “Establishing the Potential of 3D Modeling and Spatial Analysis for Interpreting Wild Plants Processing”

IIXX World UISSP Congress, 4-9 June 2018, Paris (France)

Zupancich A., Shemer M. and Barkai R. “On the use of Levantine Acheulean Bifaces: a view from Revadim Quarry and Jaljulia (Israel)”

“Beyond use-wear traces: about tools and people” AWRANA Meeting, 29 May – 1 June 2018, Nice (France)

Zupancich, A., Bourguignon, L., Lemorini, C., Texier, P-J., Baena, J., Barkai, R. and Gopher, A. “Quina Scrapers’ Edge Delineation as Evidence of Adaptation and Specialisation in the Levantine Acheulo Yabrudian and European Middle Palaeolithic”.

“Connecting people and technologies” AWRANA Meeting 27 - 30 May 2015, Leiden (Netherlands)

Zupancich, A., Venditti,F., Nunziante Cesaro, S., Barkai,R. and Gopher, A. “The contribution of use wear and residues analyses in the interpretation of early human behaviours: A case study from Qesem Cave, Israel”.

XVII World UISSP Congress Burgos (Spain), 1-7 September 2014.

Nicoud, E., Aureli, D., Pagli, M., Vila, V., Agostini, S., Boschian, G., Chaussè, Degeai, J-P., Fusco, F., Hernandez, M., Kuzucuoglu, M., Lahaye, C., Lemorini, C., Mazza, P., Mercier, N., Robert, V., Virmoux, C. and **Zupancich, A.** “A Redefinition of a Clactonian and Acheulean Sequence in Central Italy: New Researches in Valle Giumentina (Abruzzo)”.

VI International Conference on Mammoths and their Relatives, Grevena & Siatista, Western Macedonia, Greece, 5-12 May 2014.

Solodenko, N., **Zupancich, A.**, Gopher, A., Marder, O., Lemorini, C. and Barkai, R. "Elephants, Acheulian Tools, and Large Game Processing: a Use-Wear Experimental Perspective from Lower Palaeolithic Revadim, Israel".

ORGANISED SESSIONS AT INTERNATIONAL CONFERENCES

EAA 2020 "Virtual" 24-30 August 2020

Cristiani, E., Radini, A. and **Zupancich, A.** Session #364 Integrated Methodologies for the Study of Lifeways, Dietary and Occupational Environments in Prehistoric and Historical Periods

EAA 2018 "Reflecting Futures", Barcelona (Spain) 5-8 September 2018

Forte V. and **Zupancich A.** Session # 688 "The Head and The Hand": Skills, Learning and Knowledge In Prehistoric Productions.

TEACHING EXPERIENCE

July 2021 – Teacher at the Summer School "Qualitative and quantitative methods for the study of Middle Palaeolithic material culture" part of the project "'COST Action: CA19141 Integrating Neandertal Legacy: From Past to Present"

June 2017 – Teacher at the Summer School "*Tool Function in the Past: Use-Wear, Residues and Techno-Morphological Analyses of Stone and Ceramic Materials*" held at the Laboratory of Technological and Functional Analyses of Prehistoric Artefacts (LTFAPA) of "Sapienza" Università di Roma.

FIELD EXPERIENCE

Archaeological Excavations

2012 – 2016 - Excavation at the Lower Palaeolithic site of Qesem Cave, Israel, part of the Qesem Cave Project. Under the direction of Prof. Avi Gopher and Ran Barkai (Tel Aviv University).

July 2011 - Excavation at Olduvai Gorge, Tanzania, part of the Olduvai Geochronological and Archaeological Project (OGAP). Under the direction of Prof. Ignacio de la Torre (UCL Institute of Archaeology).

2007-2010 - Excavation at the Bronze Age site of Oratino - "La Rocca" (Italy). Under the direction of Prof. Alberto Cazzella and the co-direction of Dr. Michela Danesi and Valentina Copat ("Sapienza" Università di Roma).

October 2007 - Excavation at the Copper Age site of Maddalena di Muccia (Italy). Under the direction of Prof. Alessandra Manfredini and Prof. Cecilia Conati Barbaro ("Sapienza" Università di Roma).

September 2007 - Excavation at the bronze Age site of "Coppa Nevigata" (Italy). Under the direction of Prof. Alberto Cazzella ("Sapienza" Università di Roma).

Archaeological Surveys

2011 - 2014 Investigation of the Prehistoric evidence in South Italy (Gargano promontory) as part of the Gargano Project. Under the direction of Dr Andrea Monaco (“Sapienza” Università di Roma).

PRIZES AND AWARDS

2018 – Prize for Oral Presentation at the AWRANA Meeting “**Beyond use-wear traces: about tools and people**” **29 May – 1 June 2018, Nice (France)**

2011 - Irene Sala Award for the best dissertation on lithic studies at the University College London - Institute of Archaeology (London, UK).

FUNDING

2021 – Marie Skłodowska Curie Individual Fellow -MSCA-IF (HORIZON 2020) (172.932 Euros)

2020 - Irene Levi Sala Care Archaeological Foundation Research Grant (3.500 Euros)

2015 - Irene Levi Sala Care Archaeological Foundation Research Grant (5.000 Euros)

Roma 26/01/2024

F.to *Andrea Zupancich*