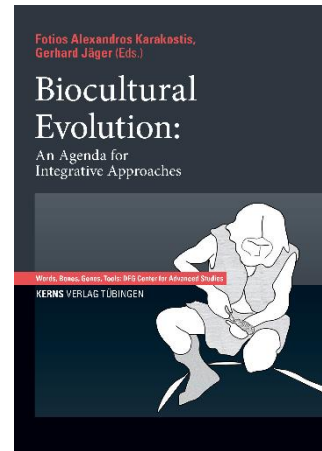
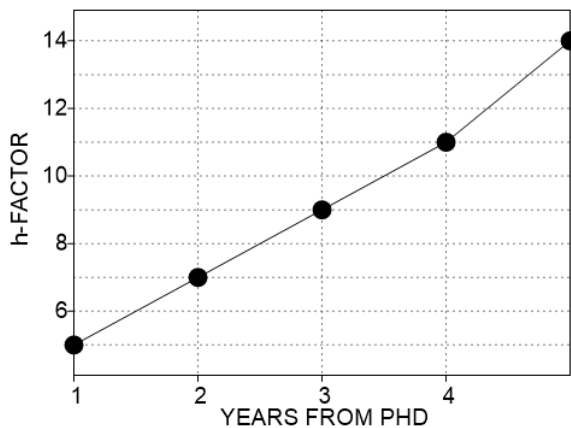


# PUBLICATIONS

## BIBLIOMETRY

- Peer-reviewed papers (**Journals, Books, Chapters**): **47** (44 Published & 3 Accepted - In Press)
  - As 1<sup>st</sup>, 2<sup>nd</sup>, and/or Corresponding author: **38**
- Total papers in conference **proceedings** (Abstracts / Extended Abstracts): **18**
- Total citations: **898**, h-index: **15**, i10-index: **19** (*source: Google Scholar*)



### **Journals:**

*Nature* (1); *Science Advances* (1); *Current Biology* (1); *Scientific Reports* (2); *Evolutionary Anthropology* (2); *PLOS ONE* (1); *American Journal of Biological Anthropology* (6); *Journal of Archaeological Sciences* (1); *Journal of Anatomy* (1); *Journal of Forensic Sciences* (2); *Forensic Science International* (1); and multiple other specialized venues.

*All publications and access links can be found on my Google Scholar webpage:*

<https://tinyurl.com/FotiosAlexandrosKARAKOSTIS>

*For books/chapters “Accepted – In Press”, I can immediately provide an acceptance confirmation.*

## PEER-REVIEWED PUBLICATION LIST (JOURNALS / EDITED BOOKS / CHAPTERS):

1. **Karakostis, F. A. (corresp.)** & Jäger, G. (Editors). (2024). *Biocultural Evolution: An Agenda for Integrative Approaches* (Edited Volume). Kerns Verlag, Tübingen.
2. Voulgari, M., Anastopoulou, I., **Karakostis, F. A.**, Moraitis, K. (2023). Testing the discrepancy between physical and virtual linear measurements. *Anthropologischer Anzeiger*. DOI: 10.1127/anthranz/2023/1739
3. Schmidt, P., Koch, T., Blessing, M., **Karakostis, F. A.**, Harvati, K., Dresely, V., Charrie-Duhaut, A. (2023). Production method of the Königsauë birch tar documents cumulative culture in

Neanderthals. *Archaeological and Anthropological Sciences*. DOI: <https://doi.org/10.1007/s12520-023-01789-2>

4. **Karakostis, F. A. (corresp.)**. (2022). Statistical protocol for analyzing 3D muscle attachment sites based on the “Validated Entheses-based Reconstruction of Activity” (V.E.R.A.) approach. *International Journal of Osteoarchaeology* 33, 461-474. DOI: 10.1002/oa.3196.
5. Kunze, J. **Karakostis, F. A. (corresp.)**, Merker, S., Peresani, M., Hotz, G., Tourloukis, V., Harvati, K. (2022). Evidence for habitual tool use in early hominins. *PaleoAnthropology* 2022, 2.
6. **Karakostis, F. A. (corresp.)**, Hotz, G.\* (2022). Reflections of manual labor in the hand entheses of early industrial women workers with extensively documented life histories. *American Journal of Biological Anthropology*. DOI: 10.1002/ajpa.24636.
7. Bousquié, L., **Karakostis, F. A. (corresp.)**, Crevecoeur, I., Villotte, S. (2022). Technical note: investigating activity-induced 3d hand enthesal variation in a documented South African sample. *Archaeological and Anthropological Sciences* 14, 213-225.
8. **Karakostis, F. A. (corresp.)** & Wallace, I. (2023). Climbing influences enthesal morphology in the humerus of mice: An experimental application of the V.E.R.A. methodology. *American Journal of Biological Anthropology* 181, 130-139.
9. **Karakostis, F. A. (corresp.)**. (2024). “Do humans only do what they are good at?”: Distinguishing between daily behaviors and evolved functional adaptations in fossil hominins. In *Biocultural Evolution: An Agenda for Integrative Approaches*. Kerns Verlag, Tübingen, pp. 14-27.
10. **Karakostis, F. A. (corresp.)**, Hotz, G., Harvati, K. Reconstructing the manual activities of a fully documented individual of advanced age. (**Accepted - In Press**). In *Festschrift für Joachim Wahl*, pp. 180-188. Tübingen University Press, Tübingen, pp. 180-188.
11. Floss, H., Bauer, C., Frick, J. A., Hoyer, C., **Karakostis, F. A.**, Kunze, J., Harvati, K. (2023). On humans and bears – suspected Neanderthal remains at Grottes de la Verpillière I & II in Germolles, Commune de Mellecey, France. In : *Au carrefour des territoires – Derniers Neanderthals et premiers Hommes modernes en Bourgogne méridionale, France*. Kerns Verlag, Tübingen.
12. Dunmore, C.J., **Karakostis, F. A.**, van Leeuwen, T., Szu-Ching, L., Profitt, T. (2023). Tool use and the hand. In: *Behavior in our Bones*. Elsevier, Amsterdam.
13. **Karakostis, F.A. (corresp.)**, Hotz, G., Rademaker, K., Gorgoulis, V., Kouloukoussa, M., Harvati, K. (**Accepted - In Press**). Exploring the habitual manual activities of a possible Upper Paleolithic individual from Greece (« Apidima C”). In: *Human Evolution at the Crossroads*. Tübingen University Press, Tübingen.
14. Kunze, J.\*, **Karakostis, F.A.**, Ioannidou, M., Koufos, G., Harvati, K. (**Accepted - In Press**). Geometric morphometric analysis of the intermediate phalanx of *Ouranopithecus macedoniensis* – A pilot study. In: *Human Evolution at the Crossroads*. Tübingen University Press, Tübingen.
15. Karagiorgou, J., Anastopoulou, I., **Karakostis, F.A.**, Kranioti, E., Moraitis, K.\*. (2022). Sexing the sternal rib end in modern Greeks: A virtual osteometric approach using high-resolution 3D surface models. *HOMO - Journal of Comparative Human Biology* 73, 69-76.
16. Uhl, A.\*, **Karakostis, F. A.**, Harvati, K. (2022). The application of bony labyrinth methods for forensic affinity estimation. *Biology* 11(7): 1088.
17. Göldner, D., **Karakostis, F. A.**, Falcucci, A.\*. (2022). Practical and technical aspects for the 3D scanning of lithic artefacts using micro-computed tomography techniques and laser light scanners for subsequent geometric morphometric analysis. Introducing the StyroStone protocol. *PLOS ONE* 17: e0267163.
18. Falcucci, A.\*, **Karakostis, F. A.**, Göldner, D., Peresani, M. (2022). Bringing shape into focus: Assessing differences between blades and bladelets and their technological significance in 3D form. *Journal of Archaeological Science Reports* 43: 103490.

19. **Karakostis, F. A. (corresp.)**. (2022). Report on the study of anthropological remains from Evripidi Cave (Salamina island). In: *The cave of Evripidi in Peristeria of Salamina: The Mycenaean stage*. University of Ioannina, Ioannina. pp. 46-65.
20. Castro, A., **Karakostis, F. A.**, Copes, L. E., McClendon, H. E., Trivedi, A. P., Schwartz, N. E., Garland, T. (2021). Effects of selective breeding for voluntary exercise, chronic exercise, and their interaction on muscle attachment site morphology in house mice. *Journal of Anatomy* 240(20 : 279-295. DOI : 10.1111/joa.13547.
21. **Karakostis, F. A. (corresp.)**, Harvati, K. (2021). New horizons in reconstructing past human behavior: Introducing the ‘Tübingen University Validated Entheses-based Reconstruction of Activity’ method. *Evolutionary Anthropology* 30, 185-198.
22. **Karakostis, F. A.**, Hauefle D., Anastopoulou, I., Moraitis, K., Hotz, G., Turloukis, V., Harvati, K. (2021). Biomechanics of the thumb and the evolution of human dexterity. *Current Biology* 31, 1317-1325.
23. Anastopoulou, I., **Karakostis, F. A. (corresp.)**, Harvati, K., Moraitis, K. (2021). Accurate and semi-automated reassociation of intermixed human skeletal remains recovered from bioarchaeological and forensic contexts. *Scientific Reports* 11, 20273.
24. **Karakostis, F. A. (corresp.)**, Buikstra J., Prevedorou E., Hannigan E.,... Widrick, K. J., Harvati, K. (2021). New insights into the manual activities of individuals from the Phaleron cemetery (Archaic Athens, Greece). *Journal of Archaeological Science* 131, 105415.
25. Bothos, E., Ntounou, E., Kelaidoni, K...**Karakostis, F. A.**, Moulos, P., Karakostis, K. (2021). Clinical pharmacogenomics in action: design, assessment and implementation of a novel pharmacogenetic panel supporting drug selection for diseases of the central nervous system (CNS). *Journal of Translational Medicine* 19, 151.
26. Harvati, K., Grün, R., Duval, M., Zhao, J-X, **Karakostis, F. A.**, Turloukis, V., Gorgoulis, V., Kouloukoussa, M. (2021). Direct U-series dating of the Apidima C human remains. In: *Ancient Connections in Eurasia*. Kerns Verlag, Tübingen. pp. 37-55.
27. **Karakostis, F.A. (corresp.)**, Reyes-Centeno, H., Francken, M., Hotz, G., Rademaker, K., and Harvati, K. (2020). Bio-cultural evidence of precise manual activities in an Early Holocene individual of the high-altitude Peruvian Andes. *American Journal of Physical Anthropology* 174, 35-48.
28. Anastopoulou, I., **Karakostis, F. A.**, M., Moraitis, K. (2020) Regression-based analyses for reassociating human commingled remains of the upper limbs. *Forensic Science International* 315, 110439.
29. Uhl, A., **Karakostis, F. A.**, Wahl, J., Harvati, K. (2020). A cross-population study of sexual dimorphism in the bony labyrinth. *Journal of Archaeological and Anthropological Sciences* 12, 1-11.
30. Harvati, K., Röding, C., Bosman A., **Karakostis F. A.**, Grün R., Stringer, C. et al. (2019). Apidima Cave fossils provide earliest evidence of *Homo sapiens* in Eurasia. *Nature* 571, 500-504.
31. **Karakostis, F. A. (corresp.)**, Jeffery, N. Harvati, K. (2019). Experimental proof that multivariate patterns among muscle attachments (enthese) can reflect repetitive muscle use. *Scientific Reports* 9, 1-9.
32. **Karakostis, F. A. (corresp.)**, Wallace, I., Konow, I., Harvati, K. (2019). Experimental evidence that physical activity affects the multivariate associations among muscle attachments (enthese). *Journal of Experimental Biology* 222, jeb213058.
33. **Karakostis, F. A.**, Hotz, G., Turloukis, V., Harvati, K. (2018). Evidence of precision grasping in Neandertal daily activities. *Science Advances* 4, eaat2369.
34. **Karakostis, F. A. (corresp.)**, Hotz, G., Scherf, H., Wahl, J., Harvati, K. (2018). A geometric morphometric approach to the analysis of hand enthesal three-dimensional form. *American Journal of Physical Anthropology* 166, 246-260.

35. **Karakostis, F. A.**, Vlachodimitropoulos, D., Piagkou, M., Scherf, H., Harvati, K. (2018). Is bone elevation in hand muscle attachments associated with biomechanical stress? A histological approach to an anthropological question. *The Anatomical Record* 302, 1093-1103.
36. Anastopoulou, I., **Karakostis, F. A.**, M., Moraitis, K. (2018). A reliable regression-based approach for reassociating human skeletal elements of the lower limbs from commingled assemblages. *Journal of Forensic Sciences* 64, 502-506.
37. **Karakostis, F. A. (corresp.)**, Hotz, G., Scherf, H., Wahl, J., Harvati, K. (2017). Occupational manual activity is reflected on the patterns among hand entheses. *American journal of Physical Anthropology* 164, 30–40.
38. **Karakostis, F. A.**, Lorenzo, C., Moraitis, K. (2017). Morphometric variation and ray allocation of human proximal hand phalanges. *Anthropologischer Anzeiger*, 74, 269-281.
39. Anastopoulou, I., **Karakostis, F. A.**, Borrini, M., Moraitis, K.\* (2017). A statistical method for reassociating human tali and calcanei from a commingled context. *Journal of Forensic Sciences* 63, 381-385.
40. **Karakostis, F. A. (corresp.)**, Velliky, E., Kandel, A. (2017). Sixth annual meeting of the European Society for the Study of Human Evolution. *Evolutionary Anthropology* 26, 7-8.
41. Hotz, G., Doppler, S., Gamma, M.-L., Gysin, D., Haas, P., Helmig, G., Huber, L., Kramis, S., **Karakostis, F. A.**, et al. (2017). Theo der Pfeifenraucher: Ein genealogisch-naturwissenschaftliches Identifizierungsprojekt. *Yearbook of the SSGS* 44, 29-61.
42. Hotz, G., Doppler, S., Gysin, D., Helmig G., **Karakostis F. A.**, Kramis, S., Lopreno G. P., Roewer, L., Rothe, J., et al. (2017). Theo the pipe-smoker, an interdisciplinary approach. In: *Archaeology and Forensics*. wbg Theiss, Stuttgart. pp. 65-71.
43. **Karakostis, F. A. (corresp.)**, Lorenzo, C. (2016). Morphometric patterns among the 3D surface areas of human hand entheses. *American journal of Physical Anthropology* 160, 694-707.
44. **Karakostis, F. A.**, Le Quéré, E., Vanna V., Moraitis, K. (2015). Reconstructing physical activity and sexual distribution of labor in Hellenistic Demetrias, using osteometric data from proximal hand phalanges. *HOMO- Journal of Comparative Human Biology* 67, 110-124.
45. **Karakostis, F. A.**, Zorba, E., Moraitis, K. (2015). Sex determination using proximal hand phalanges. *Papers of Anthropology* 24, 37-56.
46. **Karakostis, F. A.**, Zorba, E., Moraitis, K. (2014). Osteometric sex determination using proximal foot phalanges from a documented human skeletal collection. *Anthropologischer Anzeiger* 71, 2014, 403-427.
47. **Karakostis, F. A.**, Zorba, E., Moraitis, K. (2013). Sexual dimorphism of proximal hand phalanges. *International Journal of Osteoarchaeology* 25, 733-742.

## PUBLISHED CONFERENCE PROCEEDINGS

1. Affinito, S., Eteson, B., Tamayo-Caceres, L., **Karakostis, F. A.\*** (2023). A new EEG approach for exploring the cognitive underpinning of early stone tool use. *PaleoAnthropology* 2023:2, 274.
2. Bardo, A., Hotz, G., **Karakostis, F. A.\*** (2023). Investigating directional asymmetry in the first metacarpals of an extensively documented modern human sample. *PaleoAnthropology* 2023:2, 282.
3. Kunze, J., Harvati, K., Hotz, G., **Karakostis, F. A.\*** (2023). Human-like manual activities in hominins predating the genus *Homo*. *PaleoAnthropology* 2023:2, 343.
4. Ferar, N., Moos, E., **Karakostis, F. A.**, Snyder, W. D., Haas, M., Kainz, E., Rau, L., Schoenle, J., Moore, M. W., Tennie, C. (2023). The puppet method: new experimental insights into imposed form and cultural transmission. *PaleoAnthropology* 2023:2, 313.
5. Profico, A., Jeffery, N., **Karakostis, F. A.\*** (2022). Can asymmetry in mechanical loading be accurately assessed from the analysis of skeletal material?. *PaleoAnthropology* 2022:2, 561.

6. Kunze, J., **Karakostis, F. A.\***, Hotz, G., Harvati, K. (2022). Enthesal patterns elucidate differences in hand use between humans and great apes. *PaleoAnthropology* 2022:2, 519.
7. Roukas, D., Bothos, E., Ntounou, E., Kelaidoni, K., Drakoulis, N., Papasavva, M., **Karakostis, F.A.**, Moulos, P., Karakostis, K. (2021). P.0221 A rapid, concise and robust companion diagnostic ppx test supporting drug selection for diseases of the central nervous system. *European Neuropsychopharmacology* 53, S159-S160.
8. **Karakostis, F. A.\***, Hauefle D., Anastopoulou, I., Moraitis, K., Hotz, G., Tourloukis, V., Harvati, K. (2021). Biomechanical evidence of increased thumb dexterity in 2-million-year-old thumb fossils. *PaleoAnthropology* 2021, 199.
9. Harvati, K., Roeding C., Bosman, AM, **Karakostis, F. A.**, et al. (2020). New 3-D geometric morphometric and dating analyses of the Apidima fossil crania support early dispersal of *Homo sapiens* out of Africa. *American Journal of Physical Anthropology* 171, 116.
10. **Karakostis, F. A.\***, Reyes-Centeno, H., Francken, M., Rademaker, K., Harvati, K. (2020). Reconstructing manual physical activity in an early high-altitude Paleoindian settlement of the Peruvian Andes. *American Journal of Physical Anthropology* 171, 137.
11. **Karakostis, F. A.\***, Harvati, K. (2020). Interdisciplinary evidence of the effects of physical activity in the patterns of human hand entheses. *American Journal of Physical Anthropology* 168, 119-120.
12. **Karakostis, F. A.\***, Hotz, G., Tourloukis, V., Harvati, K. (2018). Neanderthals habitually performed precise manual activities. *Proceedings of the Annual Conference of the European Society for the study of Human Evolution*, 7, p. 98.
13. **Karakostis, F. A.\***, Hotz, G., Tourloukis, V., Harvati, K. (2018). New light into Neanderthal lifestyle : Elucidating the evolution of human behavior based on a uniquely documented skeletal sample. *BSGA* 24.
14. **Karakostis, F. A.\***, Hotz, G., Scherf, H., Wahl, J., Harvati, K. (2017). The patterns among human hand entheses are associated with occupational manual activities. *Proceedings of the Annual Conference of the European Society for the study of Human Evolution*, 6, p. 100.
15. Anastopoulou, I., **Karakostis, F. A.**, Borrini, M., Moraitis, K. (2017). A statistical method for reassociating human tali and calcanei from a commingled context. *Proceedings of the Annual meeting of the American Academy of Forensic Sciences*, 23, 72.
16. **Karakostis, F. A.\***, Lorenzo, C. (2016). Three-dimensional morphometric analysis of human hand entheses. *Proceedings of the European Society for the study of Human Evolution*, 5, 131.
17. **Karakostis, F. A.\***, Moraitis, K. (2013). Microevolutionary trends on proximal hand phalanges. *Proceedings of the European Society for the study of Human Evolution*, 2, 123.
18. **Karakostis, F. A.\***, Zorba, E., Moraitis, K. (2013). Study of sexual dimorphism in proximal hand phalanges. *Proceedings of the Annual Conference of the Hellenic Association for Biological Sciences*, 35, 138-139.