

CURRICULUM VITAE

M.E. Chovalopoulou

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CURRENT POSITION

2022- **Assistant professor** of Physical Anthropology at the Department of Biology of the University of Athens.

PREVIOUS POSITIONS

2021-2023 **Principal Investigator (PI)**, National and Kapodistrian University of Athens, Greece

Project Title: Reconstructing a human skeleton

2019-2021 **Postdoctoral researcher**, Science and Technology in Archaeology and Culture Research Center, The Cyprus Institute, Nicosia, Cyprus

Project Title: The Human Jigsaw: Matching articulating skeletal elements from mass burials

2019-2020 **Lecturer on contract PD 407/80** in the postgraduate module «Palaioanthropology» at the Department of History and Ethnology of the Democritus University of Thrace

2016-2018 **Academic Scholar** on the module Anthropology at the Department of Biology of the University of Athens.

2017-2018 **Appointed lecturer** in the postgraduate module Physical Anthropology Methods of the Master's Program "History of Medicine and Biological Anthropology: Health, Disease and Natural Selection" at the Aristotel University of Thessaloniki.

2015-2016 “Principles of Biology and Bioerosion Elements” **Lab associate** at Technological Educational Institute of Athens. Department of Antiquities and Works of Art Conservation.

2015-2016 **Postdoctoral researcher**, Malcolm H. Wiener Laboratory for Archaeological Science, American School of Classical Studies, Athens, Greece

Project Title: Application of the 3DGM method on Greek populations from different periods

2012-2015	Research Associate , Faculty of Biology / Department of Animal and Human Physiology, University of Athens, Greece. Project Title: Sanctuary of Apollo – Kos Alarnasas Early Christian Settlement. The transition from the Ancient Temple to the Early Christian Settlement
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EDUCATION

2015	PhD in Physical Anthropology , Department of Animal and Human Physiology, Faculty of Biology, University of Athens, Greece. Thesis title: 3D geometric morphometrics of the cranium on a modern Greek population Supervisor: Prof. E.D. Valakos, Co-Advisors: Profs. P. Papazafiri, P. Pavlakis
2008	Bachelors in Biology , Faculty of Biology, University of Athens, Greece.

FELLOWSHIPS, AWARDS AND RESEARCH GRANTS

2021-2023	H.F.R.I. Research Projects to support Postdoctoral Researchers
2019-2021	EU Marie Curie Individual post-doctoral research fellowship
2015-2016	Malcolm H. Wiener Laboratory for Archaeological Science post-doctoral research fellowship
2012-2015	State Scholarships Foundation, Faculty of Biology / Department of Animal and Human Physiology, University of Athens, Greece.

TEACHING, SUPERVISING AND MENTORING ACTIVITIES

Teaching assistance :

2009-2014	Practical sessions on Physical Anthropology (undergraduate module, Department of Biology, University of Athens)
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Invited Seminars :

European Researchers' Night (Cyprus Institute, Nicosia, September 2020)

European Researchers' Night (Cyprus Institute, Nicosia, September 2019)

Seminars at Athens Science Festival (2016)

Supervision and mentoring :

2014-2021	Supervision of 9 undergraduate dissertations at the Department of Biology, University of Athens
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2017-2018 Supervision of 1 masters dissertation at the Department of Mediterranean Studies, University of the Aegean (Accuracy and Precision of 3D modeling skeletal remains)

PROJECTS

- 2016** Excavation in Kastrouli - Mesokampos, Desfina – Anthropological study of the human skeletal remains
- 2012-2015** Sanctuary of Apollo – Kos Alarnas Early Christian Settlement. The transition from the Ancient Temple to the Early Christian Settlement – Data collection, analysis and manuscript preparation
- 2011-2012** Sexual Dimorphism and Stature in Ancient Corinth – Project design, data collection and interpretation of the results
- 2008-2009** Bioarchaeological study of the Proto-Helladic Manika cemetery – Project design, data collection and interpretation of the results

EDITORIAL ACTIVITIES AND MEMBERSHIP TO SCIENTIFIC ORGANIZATIONS

- Reviewer** for the: *American Journal of Physical Anthropology*
Journal of Forensic Science and Medicine
Journal of Orthodontics and Craniofacial Research
American Journal of Human Biology
International Journal of Osteoarchaeology
PLOS ONE
European Journal of Anatomy
Journal of Archaeological Science: Reports
Journal of Archaeological Science
Mediterranean Archaeology and Archaeometry
- 2017-2019** Membership to Hellenic Society for Biological Sciences

MAIN COLLABORATORS

Valakos, Efstratios (Prof. | Animal Comparative Physiology and Ecophysiology | University of Athens | Greece)

Liritzis, Ioannis (Prof. | Physics in Archaeology, Archaeometry | University of the Aegean | Greece)

Nikita, Efthymia (Assistant Prof. | Bioarchaeology | The Cyprus Institute | Cyprus)

Bertsatos, Andreas (Ph.D. student | Biological Anthropology | University of Athens | Greece)

PEER REVIEWED PUBLICATIONS

Peer-reviewed scientific journal articles :

1. Bertsatos, A., & **Chovalopoulou, M.-E.** (2021). Integration patterns of the asymmetric components of the skull: A covariational statistical approach on a modern Greek sample. *HOMO – Journal of Comparative Human Biology*. doi:10.1127/homo/2021/1369
2. Bertsatos, A., **Chovalopoulou, M.-E.**, Boskovits, N., Garoufi, N., & Nikita, E. (2020). The impact of activity on pelvic age at death estimation. *International Journal of Osteoarchaeology*. doi:10.1002/oa.2941
3. Garoufi, N., Bertsatos, A., **Chovalopoulou, M.-E.**, & Villa, C. (2020). Forensic sex estimation using the vertebrae: An evaluation on two European populations. *International Journal of Legal Medicine*, 134(6), 2307-2318. doi:10.1007/s00414-020-02430-w
4. Bertsatos, A., & **Chovalopoulou, M.-E.** (2020). Advances in Osteometric sorting: Utilizing diaphyseal CSG properties for lower limb skeletal pair matching. *Journal of Forensic Sciences*, 65(5), 1400-1405. doi:10.1111/1556-4029.14480
5. Bertsatos, A., Garoufi, N., & **Chovalopoulou, M.-E.** (2020). Advancements in sex estimation using the diaphyseal cross-sectional geometric properties of the lower and upper limbs. *International Journal of Legal Medicine*. doi:10.1007/s00414-020-02437-3
6. Bertsatos, A., **Chovalopoulou, M.-E.**, Brůžek, J., & Bejdová, Š. (2020). Advanced procedures for skull sex estimation using sexually dimorphic morphometric features. *International Journal of Legal Medicine*, 134(5), 1927-1937. doi:10.1007/s00414-020-02334-9
7. Bertsatos, A., Gkaniatsou, E., Papageorgopoulou, C., & **Chovalopoulou, M.-E.** (2020). “What and how should we share?” an inter-method inter-observer comparison of measurement error with landmark-based craniometric datasets. *Anthropologischer Anzeiger - Journal of Biological and Clinical Anthropology*, 77(2), 109-120. doi:10.1127/anthranz/2019/1047
8. Nikita, E., Xanthopoulou, P., Bertsatos, A., **Chovalopoulou, M.-E.**, Hafez, I. (2019). A three-dimensional digital microscopic investigation of enthesal changes as skeletal activity markers. *American Journal of Physical Anthropology*, 169(4):704-713. doi:10.1002/ajpa.23850
9. Bertsatos, A., Christaki, A., **Chovalopoulou, M.-E.** (2019). Testing the reliability of 3D-ID software in sex and ancestry estimation with a modern Greek sample. *Forensic Science International*, 297:132-137. 2019. doi: 10.1016/j.forsciint.2019.02.004
10. Bertsatos, A., Athanasopoulou, K., **Chovalopoulou, M.-E.** (2019). Estimating sex using discriminant analysis of mandibular measurements from a modern Greek sample. *Egyptian Journal of Forensic Sciences*, 9:25. doi:10.1186/s41935-019-0133-7
11. Bertsatos, A., **Chovalopoulou, M.-E.** (2019). A novel method for analyzing long bone diaphyseal cross-sectional geometry. A GNU Octave CSG Toolkit. *Forensic Science International*, 297:65-71. 2019. doi: 10.1016/j.forsciint.2019.01.041
12. Bertsatos, A., **Chovalopoulou, M.-E.** (2019). Validation study of osteometric techniques for sorting commingled human skeletal remains in archaeological samples. *International Journal of Osteoarchaeology*, 1-7. doi: 10.1002/oa.2733

13. Bertsatos, A., **Chovalopoulou, M.-E.**, Giannaki, K., Valakos, E. (2018). Morphological variation of the femoral head fovea capitis. European Journal of Anatomy, 22 (5): 397-402.
14. Bertsatos, A., Papageorgopoulou, C., Valakos, E., **Chovalopoulou, M.-E.** (2018). Investigating the sex related geometric variation of the human cranium. International Journal of Legal Medicine. doi: 10.1007/s00414-018-1790-z
15. **Chovalopoulou, M.-E.**, Bertsatos, A., Zoi, I., Manolis, S.K., Valakos, E. (2018). Reliability testing of metric methods for sex determination in ancient skeletal remains in Greece. Mediterranean Archaeology & Archaeometry, 18(1):37-47. doi: 10.5281/zenodo.1069518
16. Nikita, E., **Chovalopoulou, M.-E.** (2017). Regression equations for the estimation of stature and body mass using a Greek documented skeletal collection. HOMO – Journal of Comparative Human Biology, 68(6):422-432. doi:10.1016/j.jchb.2017.11.002
17. Bertsatos, A., **Chovalopoulou, M.-E.** (2017). Secular change in adult stature of the modern Greeks. American Journal of Human Biology, 30(2):e23077. doi:10.1002/ajhb.23077
18. **Chovalopoulou, M.-E.**, Bertsatos, A. (2017). Estimating sex of modern Greeks based on the foramen magnum region. Journal of Anthropology, 2017:1-7. doi:10.1155/2017/9129801
19. **Chovalopoulou, M.-E.**, Bertsatos, A., Manolis, S. (2017). Identification of skeletal remains from a Mycenaean burial in Kastrouli-Desfina, Greece. Mediterranean Archaeology & Archaeometry, 17(1):265-269. doi:10.5281/zenodo.556353
20. **Chovalopoulou, M.-E.**, Bertsatos, A., Manolis, S. (2017). Landmark based sex discrimination on the crania of archaeological Greek populations. A comparative study based on the cranial sexual dimorphism of a modern Greek population. Mediterranean Archaeology & Archaeometry, 17(1):37-46. doi:10.5281/zenodo.258084
21. Bertsatos, A., **Chovalopoulou, M.-E.** (2016). A GNU Octave function for Smith's Mean Measure of Divergence. Bioarchaeology of the Near East, 10:69-73.
22. **Chovalopoulou, M.-E.**, Bertsatos, A., Papageorgopoulou, C. (2016). Age-related changes in the craniofacial region in a modern Greek population sample of known age and sex. International Journal of Legal Medicine, 131(4): 1103-1111. doi:10.1007/s00414-016-1470-9
23. **Chovalopoulou, M.-E.**, Papageorgopoulou, C., Bertsatos, A. (2016). Cranium asymmetry in a modern Greek population sample of known age and sex. International Journal of Legal Medicine, 131(3): 803-812. doi:10.1007/s00414-016-1430-4
24. Nikita, E., **Chovalopoulou, M.-E.** (2016). An attempt to predict tooth crown height using cementoenamel junction diameters and implications in the quantitative study of dental wear. Anthropologischer Anzeiger - Journal of Biological and Clinical Anthropology, 73(2):161-167. doi:10.1127/antranz/2016/0556
25. **Chovalopoulou, M.-E.**, Valakos, E.D., Manolis, S.K. (2016). Sex determination by three-dimensional geometric morphometrics of craniofacial form. Anthropologischer Anzeiger - Journal of Biological and Clinical Anthropology, 73(3):195-206. doi:10.1127/antranz/2016/0470
26. **Chovalopoulou, M.-E.**, Valakos, E.D., Manolis, S.K. (2016). Sex determination by three-dimensional geometric morphometrics of the vault and midsagittal curve of the neurocranium. HOMO – Journal of Comparative Human Biology, 67(3):173-87. doi:10.1016/j.jchb.2015.09.007

- 27. Chovalopoulou, M.-E.**, Valakos, E., Manolis, S. (2013). Sex Determination by Three-Dimensional Geometric Morphometrics of the Palate and Cranial Base. *Anthropologischer Anzeiger - Journal of Biological and Clinical Anthropology*, 70(4):407–425. doi:10.1127/0003-5548/2013/0363

Book chapters :

1. Chovalopoulou ME, Bertsatos A. Exploring the shape variation of the human cranium. A geometric morphometrics study on a modern Greek population sample. In C Risselach, L Lloveras, J Nadal, JM Fullola (Eds), *Geometric Morphometrics. Trends in Biology, Paleobiology and Archaeology*. Barcelona: Universitat de Barcelona. pp.25-39. **2018**.
2. Valakos E, Papavasileiou S, Nikita E, Chovalopoulou ME. Determination of sex. In: *Biological Anthropology in Practice*. Textbook for the undergraduate and postgraduate students of the Department of Biology. Hellenic Academic Libraries Link, Athens (in Greek). Available from: <http://hdl.handle.net/11419/3843>. pp. 69-83. **2016**.
3. Valakos E, Papavasileiou S, Nikita E, Chovalopoulou ME. Estimation of age. In: *Biological Anthropology in Practice*. Textbook for the undergraduate and postgraduate students of the Department of Biology. Hellenic Academic Libraries Link, Athens (in Greek). Available from: <http://hdl.handle.net/11419/3843>. pp. 89-121. **2016**.
4. Mountrakis K, Chovalopoulou ME, Manolis SK. Bioarchaeological analysis of a paleochristian population sample from the island of Kos. In: Verti SK, Kesisoglou MP, Antoniou G (eds) *Alasarna XII. The settlement in the Early Byzantine Period and the grave house*. University of Athens (in Greek). **2015**.
5. Manolis SK, Michail DE, Mountrakis K, Chovalopoulou ME. Bioarchaeological study of Santorini excavations (Ancient Thira and Kamari). In: *Island Identities, The contribution of the Secretariat General for the Aegean & Island Policy to the Research and Promotion of the Culture of the Aegean Archipelago*, Mytilene (in Greek). pp. 128-129. **2013**.

Other Publications :

Book Review: EXECUTION BY STYRAX IN ANCIENT THASOS, Anagnostis P. Agelarakis, Archaeopress Publishing Ltd, Summertown Pavilion, Summertown, 2019. ISBN 978-1-78969-213-6 (e-Pdf). By Chovalopoulou M.-E. (2020) in *Mediterranean Archaeology & Archaeometry*, 20(1).

Validation study of correct operation for the "long-bone-diaphyseal-CSG-Toolkit". Bertsatos A, Chovalopoulou ME. Zenodo. **2018**. <http://doi.org/10.5281/zenodo.1466135>

Translations :

Scientific supervision of the Greek translation of the textbook: "Jurmain R, Kilgore L, Trevathan W, Ciochon RL, editors. 2013-14. Introduction to Physical Anthropology", Parisianou Press.

INVITED PRESENTATIONS

Invited Speaker, "2nd International Caparica Conference in Translational Forensics", BIOSCOPE, Caparica, Portugal, November 2019

Invited Speaker, “Countries in Socioeconomic transition: Evidences from Auxology and Allied Disciplines” Symposium, Indian statistical Institute, Kolkata, November 2018

CONFERENCE PARTICIPATION

Posters :

1. Mountrakis C, Chovalopoulou ME, Michail D. Poster Title: Musculoskeletal Stress of the Upper Limb in a Mycenaean Era Greek Population. 19th European Meeting of the Paleopathology Association. Lille, France. 27-29/08/2012. <https://paleopathology-association.wildapricot.org/resources/Documents/European%20PPA%20Programs/2012%2019th%20European%20PPA%20Programme%20with%20abstracts%20Lille.pdf>

Oral presentations :

1. Chovalopoulou ME, Bersatos, A. Presentation Title: Emerging techniques in sex estimation and osteometric sorting. 2nd International Caparica Conference in Translational Forensics. Caparica, Lisbon. 18-20/11/2019. <https://www.forensics2019.com/>
2. Bersatos A, Chovalopoulou ME. Presentation Title: Secular change in adult stature of modern Greeks. “Countries in Socioeconomic transition: Evidences from Auxology and Allied Disciplines” Symposium. Kolkata, India. 21-24/11/ 2018. <https://www.isical.ac.in/~isiauxology/>
3. Bertsatos A, Chovalopoulou ME, Valakos E. Presentation Title: Investigating the sex related geometric variation of the human cranium. 3rd Iberian Symposium on Geometric Morphometrics. Girona, Spain. 09-10/06/2017. <http://eurjanat.com/data/pdf/eja.s0000003.pdf>
4. Zoi I, Chovalopoulou ME, Bertsatos A, Valakos E. Presentation Title: Reliability testing of metric methods for sex determination in ancient skeletal remains. 39th Annual Conference of the Hellenic Society for Biological Sciences. Lamia, Greece. 25-27/05/2017. http://www.eebe.gr/wp-content/uploads/2017/07/EEBE2017_Proceedings.pdf
5. Bertsatos A, Chovalopoulou ME. Presentation Title: Secular trend in adult stature of the modern Greeks. 39th Annual Conference of the Hellenic Society for Biological Sciences. Lamia, Greece. 25-27/05/2017. http://www.eebe.gr/wp-content/uploads/2017/07/EEBE2017_Proceedings.pdf
6. Giannaki K, Bertsatos A, Chovalopoulou ME, Valakos E. Presentation Title: Morphological variation of the femoral head fovea capitis. 39th Annual Conference of the Hellenic Society for Biological Sciences. Lamia, Greece. 25-27/05/2017. http://www.eebe.gr/wp-content/uploads/2017/07/EEBE2017_Proceedings.pdf
7. Nikita E, Chovalopoulou ME. Presentation Title: Regression equations for the estimation of stature and body mass from modern skeletal remains. 38th Annual Conference of the Hellenic Society for Biological Sciences. Kavala, Greece. 26-28/05/2016. http://www.eebe.gr/wp-content/uploads/2016/11/EEBE2016_Proceedings.pdf
8. Chovalopoulou ME, Papageorgopoulou C, Bertsatos A. Presentation Title: Cranium

- asymmetry in a modern Greek population sample of known age and sex. 38th Annual Conference of the Hellenic Society for Biological Sciences. Kavala, Greece. 26-28/05/**2016**. http://www.eebe.gr/wp-content/uploads/2016/11/EEBE2016_Proceedings.pdf
9. Bertsatos A, Chovalopoulou ME. Presentation Title: Landmark based sex discrimination on the crania of archaeological Greek populations. A comparative study based on the cranial sexual dimorphism of a modern Greek population. 38th Annual Conference of the Hellenic Society for Biological Sciences. Kavala, Greece. 26-28/05/**2016**. http://www.eebe.gr/wp-content/uploads/2016/11/EEBE2016_Proceedings.pdf
10. Panagiotou S, Chovalopoulou ME, Valakos E. Presentation Title: Estimating skeletal age at death in adults using the acetabulum and the auricular surface on modern Greek population. 37th Annual Conference of the Hellenic Society for Biological Sciences. Volos, Greece. 21-23/05/**2015**. http://www.eebe.gr/wp-content/uploads/2015/09/praktika_EEBE_15.pdf
11. Mountrakis K, Chovalopoulou ME, Kalopissi-Verti S, Panagiotidi-Kesisoglou M, Manolis S. Presentation Title: Bioarchaeological analysis of a paleochristian population sample from the island of Kos. 37th Annual Conference of the Hellenic Society for Biological Sciences. Volos, Greece. 21-23/05/**2015**. http://www.eebe.gr/wp-content/uploads/2015/09/praktika_EEBE_15.pdf
12. Kotsi A, Chovalopoulou ME, Valakos E. Presentation Title: Sexual dimorphism of long and flat bones on modern Greek population. 37th Annual Conference of the Hellenic Society for Biological Sciences. Volos, Greece. 21-23/05/**2015**. http://www.eebe.gr/wp-content/uploads/2015/09/praktika_EEBE_15.pdf
13. Chovalopoulou ME, Papavasileiou S, Manolis S. Presentation Title: Sexual Dimorphism and Stature in Ancient Corinth. 34th Annual Conference of the Hellenic Society for Biological Sciences. Trikala, Greece.c17-19/05/**2012**. http://www.eebe.gr/wp-content/uploads/praktika_2012/2012_Praktika_Trikala.pdf
14. Chovalopoulou ME, Valakos E, Manolis S. Presentation Title: Cranial Sexual Dimorphism in Modern Hellenic Populations. 34th Annual Conference of the Hellenic Society for Biological Sciences. Trikala, Greece.c17-19/05/**2012**. http://www.eebe.gr/wp-content/uploads/praktika_2012/2012_Praktika_Trikala.pdf
15. Moraiti E, Chavalopoulou ME, Koiliias C, Manolis S. Presentation Title: Sex determination using mastoid process and foramen magnum metrics: standards for the modern Greek human skeletons (Athens collection). 32th Annual Conference of the Hellenic Society for Biological Sciences. Karpenisi, Greece. 20-22/05/**2010**. [http://www.eebe.gr/wp-content/uploads/praktika\(01-simera\)/2010Karpenisi.pdf](http://www.eebe.gr/wp-content/uploads/praktika(01-simera)/2010Karpenisi.pdf)
16. Chovalopoulou ME, Giardoglou T, Manolis S. Presentation Title: Cranial Sex Determination in Modern Hellenic Population: Application to Prehistoric crania. 31st Annual Conference of the Hellenic Society for Biological Sciences. Patras, Greece. 14-16/05/**2009**. [http://www.eebe.gr/wp-content/uploads/praktika\(01-simera\)/2009_Praktika_Patra.pdf](http://www.eebe.gr/wp-content/uploads/praktika(01-simera)/2009_Praktika_Patra.pdf)
17. Michael D, Mountrakis K, Chovalopoulou ME, Petroutsa EI, Manolis S. Presentation Title: Bioarchaeological study of the Proto-Helladic Manika cemetery (Euboea Isl., Greece). 31st Annual Conference of the Hellenic Society for Biological Sciences. Patras, Greece. 14-16/05/**2009**.

[http://www.eebe.gr/wp-content/uploads/praktika\(01-simera\)/2009_Praktika_Patra.pdf](http://www.eebe.gr/wp-content/uploads/praktika(01-simera)/2009_Praktika_Patra.pdf)

18. Chovalopoulou ME, Arvanitaki Z, Malouchou-Grimba V, Manolis S. Presentation Title: A Demographic and Paleopathological Analysis of a Medieval population from Agia Triada Thivas. 27th Scientific Conference of the Hellenic Society for Biological Sciences. Nafplio, Greece. 12-14/05/2005.

[http://www.eebe.gr/wp-content/uploads/praktika\(01-simera\)/2005_Praktika_Nayplio.pdf](http://www.eebe.gr/wp-content/uploads/praktika(01-simera)/2005_Praktika_Nayplio.pdf)