

**Dr Alessia NAVA** – Dental Paleoanthropologist

Date of birth: 1976

Nationality: Italian

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SCOPUS: papers (10 years) = 23, citations (15 years)= 327, H-index = 9

## **CURRENT POSITION**

September 2022- Post-doctoral researcher at the Geochronology and Isotope Geochronology Laboratory in Kraków Research Centre of Institute of Geological Sciences, Polish Academy of Sciences

## **EDUCATION AND DEGREES**

2022 **Italian National Scientific Abilitation (ASN)** for Associated Professor in Archaeology (professore universitario di Seconda Fascia 10/A1 – ARCHEOLOGIA).

2018 **Teaching qualification** (24 CFU) in Communication Techniques, Learning Psychology and Educational Methods – University of Benevento.

2014 – 2017 **PhD** in Physical Anthropology - Sapienza University of Rome. Thesis title: “Hominin dental enamel: an integrated approach to the study of formation, maturation, and morphology”.

1999 – 2003 **5 years master degree in Biology** - Sapienza University of Rome, with a dissertation in the histomorphometrical analysis of a series of archaeological deciduous and permanent teeth from an Imperial Roman Italian necropolis.

## **WORK EXPERIENCE**

2020-2022: Marie Skłodowska-Curie Fellowship – Human Osteology Lab, Skeletal Biology Research Centre, School of Anthropology and Conservation, University of Kent, Canterbury (UK).

2019-2020: Post-doctoral researcher at DANTE - Diet and ANcient TEchnology Laboratory – Department of Oral and Maxillo Facial Sciences, Sapienza University of Rome, Italy.

2017-2018 Post-doctoral research fellow at Museo delle Civiltà di Roma co-funded by Royal Holloway, University of London and Sapienza University of Rome.

2003-2014 Field anthropologist and Consultant Bioarchaeologist at Museo delle Civiltà di Roma and at the Italian Archaeological Superintendencies of Rome, Ostia, Puglia, Salerno, Avellino Benevento, Marche.

## **PROJECT LEADING**

2018: **Directorship of the peer reviewed project** “A metà del cammino di *Homo*, evidenze dalla Dancalia eritrea”, funded by the Italian Ministry of the Foreign Affairs, approval N.0093336/47 del 28/05/2018.

2018: **PI of the peer reviewed project** “Pre-natal and early post-natal life history in Krapina Neandertals: dental enamel microstructural analysis through virtual histology of the deciduous dentition”. Awarded with 12 shifts of beamtime (96 hours) at Elettra Sincrotrone Trieste, proposal number 20180099.

2017: **PI of the peer reviewed project** “Virtual histological reconstruction of dental enamel microstructures of *Oreopithecus bambolii*”. Awarded with 9 shifts of beamtime (72 hours) at Elettra Sincrotrone Trieste, proposal number 20170342.

2017: **Directorship of the peer reviewed project** “A metà del cammino di *Homo*, evidenze dalla Dancalia eritrea”, funded by the Italian Ministry of the Foreign Affairs, approval N.0115591/42, 23/06/2017.

2016: **Directorship of the peer reviewed project** “Virtual histological reconstruction of dental enamel and dentine microstructures in human deciduous teeth”. Awarded with

9 shifts of beamtime (72 hours) at Elettra Sincrotrone Trieste, proposal number 20160352.

2016: **Directorship of the peer reviewed project** “A metà del cammino di *Homo*, evidenze dalla Danalia eritrea”, funded by the Italian Ministry of the Foreign Affairs, approval N.0112834/45, 09/06/2016

#### AWARDS AND GRANTS

- 2019 Funding for postdoctoral research – Marie Skłodowska-Curie Individual European Fellowship – Horizon 2020 (225,000 €).
- 2018 Funding for the Archaeo-anthropological mission, Italian Ministry of the Foreign Affairs, approval N. 0093336/47 (4000 €).
- 2017 Conference prize for the best oral communication - *XXII Congresso Associazione Antropologica Italiana*, Rome (300 €).
- 2017 Funding for the Archaeo-anthropological mission, Italian Ministry of the Foreign Affairs, approval N.0115591/42 (4000 €).
- 2016 Funding for the Archaeo-anthropological mission, Italian Ministry of the Foreign Affairs, approval N.0112834/45 (4000 €).
- 2014 – 2017 Funding for postdoctoral research – PhD School Sapienza University of Rome (40.7k€).

#### PUBLICATIONS

1. Kubat J, **Nava A**, Bondioli L, Dean MC, Zanolli C, Bourgon N, Bacon A, Demeter F, Peripoli B, Albert R, Lüdecke T, Hertler C, Mahoney P, Kullmer O, Schrenk F, Müller W (accepted, in publication). Cyclical trace element patterns in Pleistocene *Pongo* sp. and *Homo erectus* on Java (Indonesia) indicate seasonal differences in dietary strategies. *Nature Ecology and Evolution*.
2. Mahoney, P., McFarlane, G., Loch, C., White, S., Floyd, B., Dunn, E. C., Pitfield, R, **Nava, A**, Guatelli-Steinberg, D. (2022). Dental biorhythm is associated with adolescent weight gain. *Communications Medicine*, 2(1), 99. doi:10.1038/s43856-022-00164-x
3. Lugli, F., **A. Nava**, R. Sorrentino, A. Vazzana, E. Bortolini, G. Oxilia, S. Silvestrini, N. Nannini, L. Bondioli, H. Fewlass, S. Talamo, E. Bard, L. Mancini, W. Müller, M. Romandini and S. Benazzi (2022) Tracing the mobility of a Late Epigravettian (~ 13 ka) male infant from Grotte di Pradis (Northeastern Italian Prealps) at high-temporal resolution. *Scientific Reports* 12(1): 8104.
4. Cerrito P, **Nava A**, Radović D, Borić D, Cerrito L, Basdeo T, Ruggiero G, Frayer DW, Kao A, Bondioli L, Mancini, Bromage TG- (2022) Dental cementum virtual histology of Neanderthal teeth from Krapina (Croatia, 130–120 kyr): an informed estimate of age, sex and adult stressors. *Journal of the Royal Society Interface*, 19(187):20210820.
5. Vazzana, A., O. A. Higgins, G. Oxilia, F. Lugli, S. Silvestrini, **A. Nava**, L. Bondioli, E. Bortolini, G. Di Domenico, F. Bernardini, C. Tuniz, L. Mancini, M. Bettuzzi, M. P. Morigi, M. Piperno, C. Collina, M. Romandini and S. Benazzi (2022). High-accuracy methodology for the integrative restoration of archaeological teeth by using reverse engineering techniques and rapid prototyping. *Journal of Archaeological Science: Reports* 44: 103511.
6. **Nava, A**, Mahoney, P, Bondioli, L, Coppa, A, Cristiani, E, Fattore, L, . . . Mancini, L. (2022). Virtual histology of archaeological human deciduous prenatal enamel through synchrotron X-ray computed microtomography images. *Journal of synchrotron radiation*, 29(1). <https://doi.org/10.1107/S160057752101208X>.
7. McFarlane, G, Loch, C, Guatelli-Steinberg, D, Bayle, P, Le Luyer, M, Sabel, N, **Nava, A** . . . Mahoney, P. (2021). Enamel daily secretion rates of deciduous molars from a global sample of

children. *Archives of Oral Biology*, 132, 105290. doi:<https://doi.org/10.1016/j.archoralbio.2021.105290>.

8. Mahoney, P, McFarlane, G, Smith, BH, Miszkiewicz, JJ, Cerrito, P, Liversidge, H, . . . **Nava, A**. (2021). Growth of Neanderthal infants from Krapina (120–130 ka), Croatia. *Proceedings of the Royal Society B*, 288(1963), 20212079.
9. Hodgkins, J, Orr, CM, Gravel-Miguel, C, Riel-Salvatore, J, Miller, CE, Bondioli, L, **Nava, A**, . . . , Negrino, F. (2021). An infant burial from Arma Veirana in northwestern Italy provides insights into funerary practices and female personhood in early Mesolithic Europe. *Scientific reports*, 11(1), 1-13.
10. Gigante, M, **Nava, A**, Paine, RR, Fiore, I, Alhaique, F, Esposito, CM, Sperduti, A, Bonetto, J, Cinquantaquattro, TE, d'Agostino, B. (2021). Who was buried with Nestor's Cup? Macroscopic and microscopic analyses of the cremated remains from Tomb 168 (second half of the 8th century BCE, Pithekoussai, Ischia Island, Italy). *PloS one*, 16(10), e0257368.
11. **Nava, A**, Fiorin, E, Zupancich, A, Carra, M, Ottoni, C, Di Carlo, G, Vozza, I, Brugnoletti, O, Alhaique, F, Grifoni Cremonesi, R, 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). *Scientific Reports*, 11:4261.
12. **Nava, A**, Lugli, F, Romandini, M, Badino, F, Evans, D, Helbling, AH, Oxilia, G, Arrighi, S, Bortolini, E, Delpiano, D, Duches, R, Figus, C, Livraghi, A, Marciani, G, Silvestrini, S, Cipriani, A, Giovanardi, T, Pini, R, Tuniz, C, Bernardini, F, Dori, I, Coppa, A, Cristiani, E, Dean, C, Bondioli, L, Peresani, M, Müller, W, Benazzi, S, (2020). Early life of Neanderthals. *Proceedings of the National Academy of Sciences* 117 (46) 28719-28726.
13. Lugli, F, Figus, C, Silvestrini, S, Costa, V, Bortolini, E, Conti, S, Peripoli, B, **Nava, A**, Sperduti, A, Lamanna, L, Bondioli, L, Benazzi, S, (2020). Sex-related morbidity and mortality in non-adult individuals from the Early Medieval site of Valdarò (Italy): the contribution of dental enamel peptide analysis. *Journal of Archaeological Science: Reports*, Volume 34, Part A, 102625, ISSN 2352-409X, <https://doi.org/10.1016/j.jasrep.2020.102625>.
14. Romandini, M, Oxilia, G, Bortolini, E, Peyrégne, S, Delpiano, D, **Nava, A**, Panetta, D, Di Domenico, G, Martini, P, Arrighi, S, Badino, F, Figus, C, Lugli, F, Marciani, G, Silvestrini, S, Menghi Sartorio, JC, Terlato, G, Hublin, J-J, Meyer, M, Bondioli, L, Higham, T, Slon, V, Peresani, M, Benazzi, S (2020). A late Neanderthal tooth from northeastern Italy. *Journal of Human Evolution*, 147, 102867 <https://doi.org/10.1016/j.jhevol.2020.102867>.
15. Li Q, **Nava A**, Reynard L., Thirlwall M, Bondioli L & Müller W. (2020). Spatially-Resolved Ca Isotopic and Trace Element Variations in Human Deciduous Teeth Record Diet and Physiological Change. *Environmental Archaeology*, DOI: 10.1080/14614103.2020.1758988
16. Kowalik N, Anczkiewicz R, Wilczyński J, Wojtal P, Müller W, Bondioli L, **Nava A** & Gasparik M. (2020). Tracing human mobility in central Europe during the Upper Paleolithic using sub-seasonally resolved Sr isotope records in ornaments. *Scientific Reports*, 10:10386 <https://doi.org/10.1038/s41598-020-67017-2>.
17. Frayer DW, **Nava A**, Tartaglia G, Vidale M, Coppa A, Bondioli L. (2020). Evidence for Labret Use in Prehistory. *Bull Int Assoc Paleodont.*;14(1):1-23
18. Mazur M, Marasca R, Ottolenghi L, Vozza I, Covello F, Zupancich A, Cristiani E and **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. *Applied Sciences*, 10, 3551; doi:10.3390/app10103551.

19. Antonio ML, Gao Z, Moots HM, Lucci M, Candilio F, ..., **Nava**, A, ... , Sperduti, A, Bondioli, L, Pinhasi, R, Pritchard, JK. (2019). Ancient Rome: A genetic crossroads of Europe and the Mediterranean. *Science* 366(6466):708-714.
20. **Nava A**, Frayer D, Bondioli L. (2019). Longitudinal analysis of the microscopic dental enamel defects of children in the Imperial Roman community of Portus Romae (necropolis of Isola Sacra, 2nd to 4th century CE, Italy). *Journal of Archaeological Science: Reports* 23: 406-415.
21. Müller W, **Nava A**, Evans D, Rossi PF, Alt KW, Bondioli L. (2019). Enamel mineralization and compositional time-resolution in human teeth evaluated via histologically-controlled LA-ICPMS profiles. *Geochimica et Cosmochimica Acta* 255,105-126, doi.org/10.1016/j.gca.2019.03.005
22. **Nava A**, Coppa A, Coppola D, Mancini L, Dreossi D, Zanini F, Bernardini F, Tuniz C, Bondioli L (2017). Virtual histological assessment of the prenatal life history and age at death of the Upper Paleolithic fetus from Ostuni (Italy). *Scientific Reports* 7, doi:10.1038/s41598-017-09773-2
23. **Nava A**, Bondioli L, Coppa A, Dean C, Rossi PF, Zanolli C (2017). New regression formula to estimate the prenatal crown formation time of human deciduous central incisors derived from a Roman Imperial sample (Velia, Salerno, Italy, I-II cent. CE). *PLoS ONE* 12(7): e0180104. <https://doi.org/10.1371/journal.pone.0180104>
24. Bondioli L, **Nava A**, Rossi PF, Sperduti A (2016). Diet and health in Central-Southern Italy during the Roman Imperial time. *ACTA IMEKO*, vol. 5, p. 19-25
25. Benassi V, **Nava A** (2015). L'indagine antropologica di campo e di laboratorio. Note di scavo nella "Piazza Morta". In (M Corrente, E Zambetta, eds). Note di scavo nella "Piazza Morta". La fortezza lucerina di Monte Albano, Gelsorosso, Bari, pp. 103-114.
26. Craig O, Biazzo M, O'Connell T, Garnsey P, Martinez-Labarga C, Lelli R, Salvadei L, Tartaglia G, **Nava A**, Renò L, Fiammenghi A, Rickards O, Bondioli L (2009). Stable isotopic evidence for diet at the Imperial Roman coastal site of Velia (1st and 2nd Centuries AD) in Southern Italy. *American Journal of Physical Anthropology*, 139:572-583.
27. Pantano W, **Nava A**, Tartaglia G (2007). Le sepolture della via Ostiense (prima tratta): evidenze antropologiche e paleopatologiche. In: (S. Pannuzzi ed) Necropoli Ostiensi. Lo scavo archeologico per la costruzione della linea elettrica a 150 kW in cavi interrati Lido Vecchio – Casal Palocco. Soprintendenza per i beni archeologici di Ostia, Roma, pp. 70-76.
28. Pantano W, **Nava A**, Catalano P (2007). Analisi antropologica dello scheletro della tomba a cappuccina n.1. In: L'area archeologica della via Nomentum-Eretum. Archeoclub d'Italia Onlus, Mentana-Monterotondo, pp. 12-17.
29. **Nava A**, Tartaglia G, Salvadei L (2007). Una deposizione in anfora (ADL 2500 US 2616). In (R Volpe, ed) Centocelle II. Roma S.D.O. Le indagini archeologiche. Rubbettino Editore, Roma, pp 83-84.
30. Salvadei L, **Nava A**, Tartaglia G (2007). Analisi antropologica delle sepolture intorno al sepolcro a tempietto. In (R Volpe, ed) Centocelle II. Roma S.D.O. Le indagini archeologiche. Rubbettino Editore, Roma, pp. 121-123.
31. Salvadei L, **Nava A**, Tartaglia G (2007). Le sepolture dell'area S.5: i dati antropologici. In (R Volpe, ed) Centocelle II. Roma S.D.O. Le indagini archeologiche. Rubbettino Editore, Roma, p. 186.
32. Salvadei L, **Nava A**, Tartaglia G (2007). Analisi antropologica dei resti umani rinvenuti nel sepolcro a tempietto della villa delle Terme (T.493). In (R Volpe, ed) Centocelle II. Roma S.D.O. Le indagini archeologiche. Rubbettino Editore, Roma, p. 271.

33. Salvadei L, **Nava A**, Tartaglia G (2007). Considerazioni antropologiche sulle sepolture di età tardoantica. In (R Volpe, ed) Centocelle II. Roma S.D.O. Le indagini archeologiche. A cura Rubbettino Editore, Roma, pp. 408-411.
34. Tartaglia G, **Nava A**, Salvadei L (2007). Analisi antropologica delle sepolture della villa delle Terme. In (R Volpe, ed) Centocelle II. Roma S.D.O. Le indagini archeologiche.. Rubbettino Editore, Roma, p. 281.
35. Pannuzi S, Cenciotti F, Bertolani G, Moro A, Tantucci M, Pantano WB, **Nava A**, Tartaglia G, Civitelli E, Piatti R, Schifi L (2006). Ostia Antica. Indagini archeologiche lungo la via Ostiense (Municipio XIII). B. Com. 107, pp. 192-216.
36. Tartaglia G, **Nava A** (2004-2005). I resti incinerati della tomba 8396. In: (C Pellegrino, ed) Ritualità e forme di culto funerario tra VI e V sec. A.C., Pontecagnano: la città, il paesaggio e la dimensione simbolica. Annali di Archeologia e Storia Antica, Nuova Serie 11-12, Università degli Studi di Napoli l'Orientale, Napoli, pp. 216-220.

### Peer-reviewed abstracts

- Müller W, **Nava A**, Evans D, Rossi PF, Alt KW, Bondioli L. Enamel mineralization and compositional time-resolution in human teeth evaluated via histologically-controlled LA-ICPMS profiles. *8th Bone Diagenesis Meeting*, 12-16 September 2017, Oxford
- Li Q, **Nava A**, Bondioli L, Reynard L, Thirlwall M, Müller W. Spatially-resolved Ca isotope and trace element variations in modern human deciduous teeth – records of diet and physiological changes? *8th Bone Diagenesis Meeting*, 12-16 September 2017, Oxford
- Nava A**, Bondioli L, Coppa A, Dreossi D, Fattore L, Mancini L, Zanolli C (2017). Virtual histological reconstruction of pre-natal dental enamel in human deciduous teeth. *3rd International Conference on Tomography of Materials and Structures*, Lund, Sweden, 26-30 June 2017, [ICTMS2017-82-2, http://meetingorganizer.copernicus.org/ICTMS2017/ICTMS2017-82-2.pdf](http://meetingorganizer.copernicus.org/ICTMS2017/ICTMS2017-82-2.pdf)
- Nava A**, Rossi PF, Bondioli L (2017). Prenatal crown formation time of human deciduous central incisors in a preindustrial population. *American Journal of Physical Anthropology*, 162(S64):423
- Tartaglia G, **Nava A**, Bondioli L (2007). NCTL (Non-Carious Cervical Tooth Lesion): il più antico caso conosciuto proveniente dalla necropoli dell'Eneolitico di Gricignano d'Aversa (Caserta). XVII Congresso degli Antropologi Italiani
- Biazzo M, Biondi G, Bondioli L, Craig O, Fiammenghi A, Garnsey P, Lelli R, Lorente J, Martínez-Labarga C, Muespach M, **Nava A**, O'Connell T, Ottoni , Renò L, Salvadei L, Tartaglia G, Rickards O (2006). Dietary patterns and genetic variability of the Imperial Roman population at Velia (Salerno, Italy, I-II cent. AD): A combined biomolecular approach. *Second International Symposium on Biomolecular Archaeology*, Stockholm, Sweden
- Nava A**, Bondioli L, FitzGerald C, Saunders S, Coppa A, Macchiarelli R (2005). Childhood health in the community of Portus Romae (2<sup>nd</sup> to 3<sup>rd</sup> Century ACE) determined from microscopic enamel defects in children with mixed dentitions. *American Journal of Physical Anthropology*, supplement 40, 2005, pp 155-156
- Bondioli L, Coppa A, FitzGerald C, **Nava A**, Macchiarelli R (2004). Individual chronology of enamel dental microdefects in the juvenile segment of the Portus Romae community. *American Journal of Physical Anthropology*, n 123, pp 65-66

### INVITED TALKS

- Nava A** (2022). Modelling the evolution of the mother-infant dyad in ancient human populations. International Workshop “Darwin in Medicine: Why Evolution is relevant for research and

medical practice”, Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Italy (17-23 April 2022)

**Nava A** (2019). Pre- and postnatal life history (growth, diet and health) in ancient humans proxied by dental enamel histomorphometry. International Workshop “Evolutionary Medicine: the Biocultural Perspective”. Senckenber Naturmuseum, Frankfurt am Main, Germany, 07-09 October 2019

**Nava A** (2019). Disentangling early infancy in ancient human populations: dental enamel microstructure analysis. Senckenber Naturmuseum Frankfurt, 22 Febbraio 2019.

**Nava A** (2018). Una finestra sull’infanzia delle popolazioni del passato: l’analisi dei microdifetti dello smalto dentale. Dall’istologia classica all’approccio virtuale. Seminar at the *Department of Cultural Heritage, University of Padua*, Italy, 9 May 2018

**Nava A** (2018). A metà del cammino di Homo: evidenze dalla Dancalia eritrea. Invited lecturer at the XXI Borsa Mediterranea del Turismo Archeologico, Paestum, Italy, 15-18 November 2018 (oral presentation).

**Nava A** (2016). Human dental enamel as an individual biological archive. Seminar at the *Eritrean Ministry of Sport and Culture, Asmara*, Eritrea, 9 November 2016

## CONFERENCE PRESENTATIONS

Higgins, OA, Modi, A, **Nava, A**, Lugli, F, Ricci, S, Cannariato, C, Diroma, MA, Zaro, V, Vai, S, Vazzana, A, Romandini, M, Yu, H, Boschini, F, Di Domenico, G, Baruffaldi, F, Oxilia, G, Bortolini, E, Lari, M, Posth, C, Bondioli, L, Dellù, E, Moroni, A, Ronchitelli, A, Talamo, S, Müller, W, Calattini, M, Benazzi, S, Caramelli, D (2022). Biological profile and early life history of the Upper Palaeolithic infant of Grotta delle Mura (Puglia, Italy): integrating dental histology, aDNA, and time-resolved geochemical signals. *12<sup>th</sup> European Society for the study of Human Evolution Annual Meeting (ESHE)*, Tübingen, Germany, 22<sup>nd</sup> - 24<sup>th</sup> of September 2022.

Riga, A, Profico, A, Mori, T, **Nava, A**, Mancini, L, Dreossi, D, Radović, D, Bondioli, L, Marchi, D (2022). Morphometrics and functional morphology of the fossil second metatarsal from Sedia del Diavolo (MIS 7, Latium, Italy). *12<sup>th</sup> European Society for the study of Human Evolution Annual Meeting (ESHE)*, Tübingen, Germany, 22<sup>nd</sup> - 24<sup>th</sup> of September 2022.

Boric, D, **Nava, A**, Peripoli, B, Price, D, Bondioli, L, Müller, W (2022). Forager vs. early farmer lifeways in the Balkans revealed through time-resolved records in teeth. *28<sup>th</sup> International meeting of European Association of Archaeologists (EAA)*, Budapest, Hungary, 31 August - 3 September 2022.

Boric, D, Cristiani, E, Price, D, **Nava, A**, Bondioli, L, Coppa, A (2022). Human diet and mobility in central Italy from the Upper Palaeolithic to the Neolithic: Dental remains from Grotta Continenza. *28<sup>th</sup> International meeting of European Association of Archaeologists (EAA)*, Budapest, Hungary, 31 August - 3 September 2022.

**Nava A**, Lugli, F, Mahoney, P, McFarlane, G, Bondioli, L, Higgins, AO, Magri, S, Benazzi, S, Dean, MC, Müller, W (2022). Time-resolved variations of trace elements in dental enamel discriminates between breastfed and formula-fed infants in children with known dietary history. *18<sup>th</sup> International Symposium on Dental Morphology, 3<sup>rd</sup> Congress of the International Association of Paleodontology*, 15-19 August 2022, Frankfurt (poster presentation).

Kubat, J, **Nava, A**, Bondioli, L, Dean, MC, Zanolli, C, Bourgon, N, Bacon, AM, Demeter, F, Peripoli, B, Mahoney, P, Albert, R, McCormack, J, Ludeke, T, Hertler, C, Kullmer, O, Schrenk, F, Müller, W (2022). Trace element profiles in enamel from histologically-controlled laser-based mass spectrometry reveal dietary cyclicity in *Pongo* and *Homo erectus* from Sangiran. *18<sup>th</sup> International Symposium on Dental Morphology, 3<sup>rd</sup> Congress of the International Association of Paleodontology*, 15-19 August 2022, Frankfurt.

McFarlane, G, Mahoney, P, **Nava, A**, Loch, C (2022). Limited associations between Retzius periodicity and adult height in modern New Zealanders. *18<sup>th</sup> International Symposium on Dental*

- Morphology*, 3<sup>rd</sup> Congress of the International Association of Paleodontology, 15-19 August 2022, Frankfurt (poster presentation).
- Nava A**, Lugli F, Mahoney P, McFarlane G, Higgins OA, Coppa A, Dean CM, Bondioli L, Müller W, Benazzi S (2022). A new look at old teeth: Cutting-edge methodologies applied to the maternal-infant nexus in prehistory. *40 anni di Casal de' Pazzi*, 30 March - 1 April 2022, Rome, Italy.
- Bondioli L, **Nava A**, Sorrentino R, Cognigni F, Cristiani E, Rossi M, Benazzi S, Manzi G (2022). A deciduous maxillary molar: the human specimen from the Middle Pleistocene site of La Polledrara di Cecanibbio (Rome, Italy). *40 anni di Casal de' Pazzi*, 30 March - 1 April 2022, Rome, Italy.
- Nava A**, Lugli F, Mahoney P, McFarlane G, Bondioli L, Benazzi S, Dean CM, Müller W (2022). Time-resolved trace element variations in dental enamel of contemporary children with known dietary history through Laser-Based Mass Spectrometry (LA-ICPMS): implications for ancient dietary reconstructions. *91<sup>th</sup> annual meeting of American Association of Biological Anthropologist*, 23-26 March 2022, Denver, Colorado.
- McFarlane G, Loch C, Guatelli-Steinberg D, Bayle P, Le Luyer M, Sabel N, **Nava A**, Floyd B, Skinner M, White S, Pitfield R, Mahoney P (2022). A comparison of enamel daily sections rates in deciduous molars from modern-day children living in Aotearoa New Zealand, Britain, Canada, France, and Sweden. *91<sup>th</sup> annual meeting of American Association of Biological Anthropologist*, 23-26 March 2022, Denver, Colorado.
- Mahoney P, McFarlane G, Smith BH, Miskiewicz JJ, Cerrito P, Liversidge H, Mancini L, Dreossi D, Veneziano A, Bernardini F, Cristiani E, Behie A, Coppa A, Bondioli L, Frayer DW, Radovic D, **Nava A** (2022). Neanderthal infant growth reconstructed from virtual histology of deciduous teeth. *91<sup>th</sup> annual meeting of American Association of Biological Anthropologist*, 23-26 March 2022, Denver, Colorado.
- Nava A**, Lugli F, Mahoney P, McFarlane G, Bondioli L, Benazzi S, Müller W (2021). Disentangling Maternal Diet and Early Feeding History in Ancient Human Populations through Spatially-Resolved Laser-Based Mass Spectrometry (LA-ICPMS). *13th Annual Conference of The Society for the Study of Childhood in the Past*, online meeting, 25-28 October 2021 (oral presentation).
- Lugli F, **Nava A**, Bondioli L, Dean C, Müller W, Benazzi S (2021). Life histories told by fossil teeth: achievements, limitations, and pitfalls. *9th Bone Diagenesis Meeting*, Évora (Portugal), 21-24 September 2021 (oral presentation).
- Moots H, Pickel D, Sperduti A, Antonio ML, Gao Z, **Nava A**, Gelabert P, Lucci M, Candilio F, Sawyer S, Oberreiter V, Rubini M, Bondioli L, Coppa A, Pinhasi R, Pritchard R (2021). The Genetics of Malaria Resistance in Ancient Rome. Oral presentation at the *90<sup>th</sup> annual meeting of American Association of Physical Anthropologist*, online meeting, 7-28 April 2021 (oral presentation).
- Kubat J, **Nava A**, Bondioli L, Dean MC, Zanolli C, Bourgon N, Bacon A, Demeter F, Peripoli B, Mahoney P, Albert R, Kullmer O, Schrenk F, Müller W (2021). Cyclical trace element patterns in Pleistocene Pongo sp. and Homo erectus on Java (Indonesia) indicate seasonal differences in dietary strategies. Poster presented at the *European Society for the study of Human Evolution Annual Meeting*, September 22-24, 2021, Virtual meeting.
- Nava A**, Dean MC, Lugli F, Coppa A, Romandini M, Bondioli L, Peresani M, Benazzi S (2019). Postnatal crown formation time of three Neanderthals deciduous teeth from Northeastern Italy. *European Society for the study of Human Evolution, 9th Annual Meeting*, September 19-21, 2019 Liège, Belgium
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- Nava A**, Rossi pf, Bondioli L (2017). Prenatal crown formation time of human deciduous central incisors in a pre-industrial population. *86<sup>th</sup> annual meeting of American Association of Physical Anthropologist*, New Orleans, USA, 18-22 April 2017 (poster). **Abstract published:** *American Journal of Physical Anthropology*, 162 (S64), p. 423
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- Rossi PF, **Nava A**, Bondioli L (2015). Cronologia dello stress infantile: i casi di Isola Sacra e Velia Porta Marina. *XXI Congresso Associazione Antropologica Italiana*, Bologna-Ravenna, Italy, 3-5 September 2015 (poster)
- Fattore L, **Nava A**, Genchi F, Mancinelli D, Maini E (2015). L'area Sacra di Daba (Musandam, Oman, II-I millennio a.C.). I morti oltre la morte. L'analisi tafonomia e l'interpretazione dei processi culturali e naturali sulle ossa di LCG2. *Archeologia e Antropologia della morte. III incontro di studi di antropologia e archeologia a confronto*, Roma, Italy, 20-22 May 2015 (oral presentation)
- Nava A**, Caldarini C, Catalano P, De Angelis F, Pantano W (2009). Recent excavations of funerary sites of the imperial Rome: evaluation of anthropological field and study data using a new approach. *15<sup>th</sup> international meeting of European Association of Archaeologists*, Riva del Garda, Italy, 15-20 September 2009 (oral presentation)
- Cianfriglia L, Catalano P, Feriozzi F, Moffa C, **Nava A** (2008). La tomba eneolitica di Casale Somaini (Muratella, Roma). *XLIII Annual Meetings of Istituto Italiano di Preistoria e Protostoria (IIPP)*, Bologna, Italy 26-29 November 2008, (poster). **Abstract published:** in *L'età del rame in Italia. Atti della XLIII riunione Scientifica IIPP*, Firenze, pp.749-752
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## FIELDWORK

- Since 2015 **Member of the scientific team** of the Archaeological and Anthropological Mission in the 1 Ma *Homo erectus* bearing outcrop in the Eritrean Danakil (Buya sedimentary basin)
- Dec 2014/Feb 2015 **Member of the scientific team** in the archaeological excavation lead by the Ministry of Cultural Heritage of the Sultanate of Oman, at Daba, Musandam, Sultanate of Oman
- 2003-2011 **Field bioarchaeologist and specialist in taphonomy** for Archaeological Italian Superintendences with near-continued participation to graveyards excavations. Main fieldworks: Medieval castle graveyard (Lucera); Late Antique hypogeum basilica Via Tiburtina 1435; Imperial Roman necropolises: Velia, Via Cavriglia, Casal Bertone – *fullonica* - San Basilio, Via Casilina, via Balzani, Gabii - Gabii Project Roma-, Via Sassonegro 18, Città dello Sport, Tor Vergata, Lucrezia Romana II, Via Paribeni, Via della Marranella di Marino 49, Piazza dei Navigatori, Via Appia Pignatelli, Torino Mezzocammino, Trigatoria, Campus Biomedico, Via Ardeatina – Santa Palomba, Aurelia Km 13 - Via della Monachina, via di S. Alessandro, Via della Massimina, Via di Quarto Peperino, Via di Grottarossa, Via di Castel Fusano - Ostia; Eneolithic graveyards: Casale Somaini, Torresina 2; Proto-Villanovian graveyard: Veio Pozzuolo.

#### ACADEMIC TEACHING

- 2021 **Adjunct professor** in Anthropology and Taphonomy, School of specialization in Archaeology, University of Padua.
- 2013 – 2018 **Teaching assistant** – lectures, tutorials, and oral examination and marking in Physical Anthropology, Human Paleobiology and Paleopathology (Sapienza University of Rome)
- 2015 – 2018 **Teaching during the field mission** in the Eritrean Danakil – fieldwork, archaeological excavation, taphonomic analysis

#### PROFESSIONAL SERVICES AND MEMBERSHIP

- Reviewer** for the scientific journals: *PLoS ONE*, American Journal of Physical Anthropology, Archives of Oral Biology, Yearbook of Physical Anthropology, Science Advance, Nature.
- Member** of the Dental Anthropology Association (DAA), Associazione Antropologica Italiana (AAI), Society for the Study of Childhood in the Past (SSCIP), European Society for the Study of Human Evolution (ESHE).

#### PRESS RELEASES / MEDIA INTERVIEWS

- 2020 Participation to the Italian radio broadcast Radio24, Darwin, l'evoluzione della scienza (09/11/2020, [https://www.radio24.ilsole24ore.com/podcast-originali/darwin/podcast/20-anni-stazione-spaziale--neonati-neanderthal-093330-ADPGLB1?refresh\\_ce=1](https://www.radio24.ilsole24ore.com/podcast-originali/darwin/podcast/20-anni-stazione-spaziale--neonati-neanderthal-093330-ADPGLB1?refresh_ce=1)).
- 2018 Participation to the documentary *Una mamma del Paleolitico*, broadcasted internationally by national television RAI International
- 2017 *Crescita "turbo" per i bambini dell'impero romano*. Reported by ANSA (Italian National Associated Press Agency)
- 2017 *Alta, giovane e muscolosa la donna di Ostuni ai raggi X. Dall'analisi del sincrotrone nuovi elementi sulla ragazza incinta di 28 mila anni fa. Morì malata con la mano sul suo feto*. Reported by la Repubblica (national Italian newspaper), 26 August 2017
- 2017 Interview on the National broadcasting programme *Unomattina* (RAI1), 4 September 2017, on the Upper Palaeolithic fetus of Ostuni 1b
- 2017 Interview on national radio RadioRai3, 5 September 2017, on the Upper Palaeolithic fetus of Ostuni 1b
- 2017 *Lettera da un bambino mai nato*. Reported by Venerdì di Repubblica (national Italian newspaper magazine), 20 October 2017

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 “Codice in materia di protezione dei dati personali” e dell’art. 13 del GDPR (Regolamento UE 2016/679).

Rome, marzo 2023

A handwritten signature in black ink, appearing to read 'C. Neri'.