

## DR COSTANTINO BUZI

PALEOANTHROPOLOGIST

Department of Physics and Geology, University of Perugia

CURRICULUM VITAE (DECEMBER 2025)

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## RELEVANT PROFESSIONAL APPOINTMENTS

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### 01/05/2024 – present – Fixed-Term Researcher (RTDa)

Department of Physics and Geology, University of Perugia, Italy.

Principal Investigator of the Project "*Investigating the hominin evolution and dispersal in East Africa and Southern Europe during the Middle Pleistocene (HOMES)*".

### 01/10/2024 – 31/03/2025 – Research Fellow

DFG Center for Advanced Studies "Words, Bones, Genes, Tools: Tracking Linguistic, Cultural and Biological Trajectories of the Human Past", University of Tübingen, Germany.

### 01/09/2022 – 31/08/2024 – MSCA Post-Doctoral research fellow

IPHES - Catalan Institute of Human Paleoecology and Social Evolution (Tarragona, Spain). Marie Skłodowska-Curie Individual Fellowship (GA No. 101025525), project title: "N-SPIRE - The Neanderthal nose: reconstruction of shape, function and adaptations"

### 01/11/2020 – 31/08/2022 – Postdoctoral researcher

DFG Center for Advanced Studies "Words, Bones, Genes, Tools: Tracking Linguistic, Cultural and Biological Trajectories of the Human Past", University of Tübingen, Germany.

### 01/02/2020 – 31/10/2020 – Postdoctoral researcher

Department of Environmental Biology, Sapienza University of Rome, Italy.

## EDUCATION (including qualification)

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16/07/2024 – Italian National Scientific Qualification (*Abilitazione Scientifica Nazionale, ASN*) as Associate Professor in Anthropology. Requirement to apply for professorship positions in Italian Universities. Valid through 16/07/2036.

20/02/2020 – Ph.D. *cum laude*, Environmental and Evolutionary Biology (curriculum Anthropology). Mention of *Doctor Europaeus*. Department of Environmental Biology, Sapienza University of Rome (Italy).

Title: *Morphology of the inner structures of the facial skeleton in Homo neanderthalensis and the case-study of the Neanderthal from Altamura (Bari, Italy)*

Digital acquisition of Neanderthal skeletal material in a karstic cave from Southern Italy. Geometrics morphometrics study of maxillary sinuses in modern and fossil humans. Digital reconstruction of the cranium from the 'Altamura Man' and design of digital tools for the reconstruction and analysis in virtual paleoanthropology. Digital acquisition and first description of the preserved Neanderthal nasal cavity from the 'Altamura man'.

27/01/2015 – M. Sc. *cum laude*, Natural Sciences. Department of Earth Sciences, Sapienza University of Rome (Italy).

Title: *Ontogenetic and evolutionary relationships between facial and basicranial bones in the Hominoidea: a geometric morphometrics study* (in Italian)

Geometric morphometrics study on the cranial districts splanchnocranium and basicranium in a large digital sample of primate ontogenetic series (n > 200 individuals), including modern and fossil humans.

11/05/2012 – B. Sc., Geology. Department of Earth Sciences, University of Perugia (Italy).

Title: *The Villafranchian mammal fauna from Podere San Lorenzo (Deruta, PG)* (in Italian)

Revision, restoration, and characterisation of a mammal fauna from the Early Pleistocene of Central Italy.

## PUBLICATIONS

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- 17/11/2025 – **Buzi, C.\***, Profico, A., Lorenzo, C., Manzi, G. – The first complete inner nose in the human fossil record: the Neanderthal from Altamura. *Proceedings of the National Academy of Sciences (PNAS)*, 122(48) e2426309122. DOI: <https://doi.org/10.1073/pnas.2426309122>.
- 12/11/2025 – Chakraborty, T., Arnaud, J., **Buzi, C.** – Exploring the relationship between mandibular morphology, dental eruption and chronological age in modern human subadults through geometric morphometrics. *American Journal of Biological Anthropology*, 188(3), e70155. DOI: <https://doi.org/10.1002/ajpa.70155>.
- 20/08/2025 – Liang, C., Qiu, T., Marghoub, A., Chathuranga, D. S., **Buzi, C.**, Profico, A., Didziokas, M., Baldwin, M. C., Pauws, E., Liu, Z.-J., Rafferty, K. L., Herring, S. W., Moazen, M. – Unravelling the difference in craniofacial morphology of Yucatan miniature and standard pigs during postnatal ontogeny. *Proceedings B*, 292(2053), 20251646. DOI: <https://doi.org/10.1098/rspb.2025.1646>.
- 17/12/2024 – Mellgren, J., Liang, C., **Buzi, C.**, Profico, A., Khonsari, R. H., Säljö, K., Moazen, M., Kölby, L. – Surgical correction of unicoronal synostosis: fronto-orbital distraction versus calvarial switch. *Plastic and Reconstructive Surgery*, e011923. DOI: <https://doi.org/10.1097/PRS.00000000000011923>. *In press*.
- 28/07/2024 – Liang, C., Marghoub, A., Profico, A., **Buzi, C.**, Didziokas, M., van de Lande, L., Khonsari, R. H., Johnson, D., O'Higgins, P., Moazen, M. – A physico-mechanical model of postnatal craniofacial growth in human. *iScience* 27(9), 110617. DOI: <https://doi.org/10.1016/j.isci.2024.110617>.
- 19/07/2024 – **Buzi, C.\***, Boggioni, M., Borsato, A., Boschian, G., Marchi, D., Micheli, M., Moggi-Cecchi, J., Profico, A., Riga, A., Samadelli, M., Manzi, G. – Virtual paleoanthropology in karstic environments. The challenging case of the Neanderthal skeleton from Altamura (southern Italy). *Quaternary Science Reviews* 338:108833. DOI: <https://doi.org/10.1016/j.quascirev.2024.108833>.
- 05/07/2024 – Riga, A., Davies, T.W., Azzarà, B., Boschian, G., **Buzi, C.**, Kimambo, J. S., Manzi, G., Masao, F. T., Mgemwa, A., Nyambo, H., Tafforeau, P., Jilala, W., Moggi-Cecchi, J., Cherin, M. – New hominin dental remains from Olduvai Gorge (Tanzania). *Journal of Human Evolution* 193:103556. DOI: <https://doi.org/10.1016/j.jhevol.2024.103556>.
- 19/06/2024 – Liang, C., Landi, F., Çetin, I. E., Profico, A., **Buzi, C.**, Dutel, H., Khonsari, R. H., O'Higgins, P., Moazen, M. – Functional adaptation of the infant craniofacial system to mechanical loadings arising from masticatory forces. *Proceedings of the Royal Society B: Biological Sciences* 291:20240654. DOI: <https://doi.org/10.1098/rspb.2024.0654>.
- 14/06/2023 – Liang, C., Profico, A., **Buzi, C.**, Khonsari, R. H., Johnson, D., O'Higgins, P., Moazen, M. – Normal human craniofacial growth and development from 0 to 4 years. *Scientific Reports* 13, 9641. DOI: <https://doi.org/10.1038/s41598-023-36646-8>.
- 24/03/2023 – Profico, A., **Buzi, C.**, Di Vincenzo, F., Boggioni, M., Borsato, A., Boschian, G., Marchi, D., Micheli, M., Moggi-Cecchi, J., Samadelli, M., Tafuri, M.A., Arsuaga, J. L., Manzi, G. – Virtual excavation and analysis of the early Neanderthal cranium from Altamura (Italy). *Communications Biology* 6, 316. DOI: <https://doi.org/10.1038/s42003-023-04644-1>.
- 11/02/2023 – **Buzi, C.\***, Profico, A., Liang, C., Khonsari, R. H., O'Higgins, P., Moazen, M., Harvati, K. - *Icex*: advances in the automatic extraction and volume calculation of cranial cavities. *Journal of Anatomy* 242, 1172 - 1183. DOI: <https://doi.org/10.1111/joa.13843>. Article on the Journal's **issue cover**, DOI: <https://doi.org/10.1111/joa.13888>.
- 13/01/2022 – Mecozzi, B., **Buzi, C.**, Iannucci, A., Micarelli, I., Bona, F., Forti, L., Lembo, G., Manzi, G., Mazzini, I., Muttillio, B., Pieruccini, P., Ranaldo, F., Sigari, D., Sardella, R. - New human fossil from the latest Pleistocene levels of Grotta Romanelli (Apulia, southern Italy). *Archaeological and Anthropological Sciences* 14(1), 27. DOI: <https://doi.org/10.1007/s12520-021-01491-1>.
- 07/09/2021 – Melchionna, M., Profico, A., **Buzi, C.**, Castiglione, S., Del Bove, A., Mondanaro, A., Sansalone, G., Piras, P., Raia, P. - A new integrated tool to calculate and map bilateral asymmetry on three-dimensional digital models. *Symmetry* 13(9), 1644. DOI: <https://doi.org/10.3390/sym13091644>.
- 02/09/2021 – **Buzi, C.\***, Profico, A., Di Vincenzo, F., Harvati, K., Melchionna, M., Raia, P., Manzi, G. - Retrodeformation of the Steinheim cranium: insights into the evolution of Neanderthals. *Symmetry* 13(9), 1611. DOI: <https://doi.org/10.3390/sym13091611>.

- 12/06/2021 – Profico, A., **Buzi, C.**, Castiglione, S., Melchionna, M., Piras, P., Veneziano, A., Raia, P. - *Arothron*: an R package for geometric morphometric methods and virtual anthropology applications. *American Journal of Physical Anthropology* 176(1), 144-151. DOI: <https://doi.org/10.1002/ajpa.24340>.
- 25/02/2021 – **Buzi, C.**, Di Vincenzo, F., Profico, A., Manzi, G. - The pre-modern human fossil record in Italy from the Middle to the Late Pleistocene: an updated reappraisal. *Alpine and Mediterranean Quaternary* 34(1), 17-32. DOI: <https://doi.org/10.26382/AMQ.2021.03>.
- 02/12/2020 – Riga, A., Boggioni, M., Papini, A., **Buzi, C.**, Profico, A., Di Vincenzo, F., Marchi, D., Moggi-Cecchi, J., Manzi, G. - In situ observations on the dentition and the oral cavity of the Neanderthal skeleton from Altamura (Italy). *PLOS One* 15(12), e0241713. DOI: <https://doi.org/10.1371/journal.pone.0241713>.
- 20/10/2020 – **Buzi, C.**, Micarelli, I., Paine, R.R., Profico, A., Messineo, D., Tafuri, M.A., Manzi, G. - Digital imaging techniques applied to a case of *concha bullosa* from an Early Medieval funerary area in central Italy. *International Journal of Paleopathology* 31, 71-78. DOI: <https://doi.org/10.1016/j.ijpp.2020.10.002>.
- 18/03/2020 – Profico, A., **Buzi, C.**, Melchionna, M., Veneziano, A., Raia, P. - Technical note: *endomaker*, a new algorithm for fully automatic extraction of cranial endocasts and the calculation of their volumes. *American Journal of Physical Anthropology* 172(3), 511-515. DOI: <https://doi.org/10.1002/ajpa.24043>.
- 27/11/2019 – Profico, A., Piras, P., **Buzi, C.**, Del Bove, A., Melchionna, M., Senczuk, G., Varano, V., Veneziano, A., Raia, P., Manzi, G. - Seeing the wood through the trees. Combining shape information from different landmark configurations. *Hystrix, the Italian Journal of Mammalogy* 30(2), 157-165. DOI: <https://doi.org/10.4404/hystrix-00206-2019>.
- 07/2019 – Cherin, M., Azzarà, B., Breda, M., Brobia Ansoleaga, A., **Buzi, C.**, Pandolfi, L., Pazzaglia, F. - Large mammal remains from the Early Pleistocene site of Podere San Lorenzo (Perugia, central Italy). *Rivista Italiana di Paleontologia e Stratigrafia (Research in Paleontology and Stratigraphy)* 125(2), 498-515. DOI: <https://doi.org/10.13130/2039-4942/11790>.
- 07/02/2019 – Profico, A., **Buzi, C.**, Davis, C., Melchionna, M., Veneziano, A., Raia, P., Manzi, G. - A new tool for digital alignment in Virtual Anthropology. *The Anatomical Record* 302(7), 1104-1115. DOI: <https://doi.org/10.1002/ar.24077>.
- 27/11/2018 – Di Vincenzo, F., S.E. Churchill, S.E., **Buzi, C.**, Profico, A., Tafuri, M.A., Micheli, M., Caramelli, D., Manzi, G. - Distinct among Neanderthals: The scapula of the skeleton from Altamura, Italy. *Quaternary Science Reviews* 217, 76-88. DOI: <https://doi.org/10.1016/j.quascirev.2018.11.023>.
- 10/2018 – **Buzi, C.\***, Micarelli, I., Profico, A., Conti, J., Grassetti, R., Cristiano, W., Di Vincenzo, F., Tafuri, M., Manzi, G. - Measuring the shape: performance evaluation of a photogrammetry improvement applied to the Neanderthal skull Saccopastore 1. *Acta IMEKO* 7(3), 79-85. DOI: [https://doi.org/10.21014/acta\\_imeko.v7i3.597](https://doi.org/10.21014/acta_imeko.v7i3.597).
- 20/09/2018 – Profico, A., Bellucci, L., **Buzi, C.**, Di Vincenzo, F., Micarelli, I., Strani, F., Tafuri, M. A., Manzi, G. - Virtual Anthropology and its application in cultural heritage studies. *Studies in Conservation* 64(6), 323-336. DOI: <https://doi.org/10.1080/00393630.2018.1507705>.
- 21/04/2018 – Profico, A., Schlager, S., Valoriani, V., **Buzi, C.**, Melchionna, M., Veneziano, A., Raia, P., Moggi-Cecchi, J., Manzi, G. - Reproducing the internal and external anatomy of fossil bones: Two new automatic digital tools. *American Journal of Physical Anthropology* 166(4), 979-986. DOI: <https://doi.org/10.1002/ajpa.23493>.
- 02/11/2017 – Profico, A., Piras, P., **Buzi, C.**, Di Vincenzo, F., Lattarini, F., Melchionna, M., Veneziano, A., Raia, P., Manzi, G. - The evolution of cranial base and face in Cercopithecoidea and Hominoidea: Modularity and morphological integration. *American Journal of Primatology* 79(12), e22721. DOI: <https://doi.org/10.1002/ajp.22721>.

\* corresponding author

## CONFERENCE PARTICIPATIONS

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### As organizer or chairperson

- 29/08/2024 – **Session #666: "The impact of digital methods in Bioarchaeology and Paleoanthropology: Innovative applications and technological advances"**, 30<sup>th</sup> EAA Annual Meeting (*European Association of Archaeologists*), Rome (Italy), 28-31/08/2024. Co-organiser of the Session.

15-17/11/2023 – **AHEAD Conference (Advances in Human Evolution, Adaptation and Diversity)**, Tarragona (Spain). Co-organizer of the conference, member of the scientific committee, co-chair.

### **Podium presentations (selection)**

- 18/09/2025 – **Buzi, C.**, Röding, C., Harvati, K. – Steinheim: the new face of a hominin from the Middle Pleistocene of Germany. XXVI AAI Conference (*Associazione Antropologica Italiana*), Cagliari (Italy), 16-19/09/2025
- 04/06/2025 – **Buzi, C.** – Bone pneumatizations in virtual paleoanthropology: the case study of paranasal sinuses. XXV Paleodays (SPI - *Società Paleontologica Italiana*), Catania (Italy), 03-06/06/2025
- 29/08/2024 – **Buzi, C.**, Chakraborty, T., Arnaud, J. – Enhancing age estimation in modern human subadult: a geometric morphometric approach. 30<sup>th</sup> EAA Annual Meeting (European Association of Archaeologists), Rome (Italy), 28-31/08/2024.
- 20/03/2024 – **Buzi, C.**, Profico, A. – A comparative study of maxillary sinuses in modern and fossil humans by Virtual Anthropology. Paleoanthropology Society 2024 Meeting, Los Angeles (USA), 19-20/03/2024.
- 06/09/2023 – **Buzi, C.** – Advancements in the study of cranial cavities: R-based open access tools. XX world UISPP Congress (*Union Internationale des Sciences Préhistoriques et Protohistoriques*), Timișoara (Romania), 05-09/09/2023
- 06/09/2023 – Chakraborty, T., Arnaud, J., **Buzi, C.** – Age estimation of modern humans based on dental eruption and mandibular formation: a geometric morphometric approach. XX world UISPP Congress (*Union Internationale des Sciences Préhistoriques et Protohistoriques*), Timișoara (Romania), 05-09/09/2023
- 01/09/2023 – **Buzi, C.**, Boggioni, M., Profico, A., Riga, A., Manzi, G. – Virtual paleoanthropology in karstic environments. The challenging case of the Neanderthal skeleton from Altamura (Southern Italy). 29<sup>th</sup> EAA Annual Meeting (*European Association of Archaeologists*), Belfast (UK), 30/08-02/09/2023
- 09/09/2022 – **Buzi, C.** – Open access tools for the virtual extraction of cranial cavities. 8<sup>th</sup> Congress of the Portuguese Anthropological Association (APA), Evora (Portugal), 06-09/09/2022
- 02/04/2019 – **Buzi, C.**, Manzi, G. - Towards a re-evaluation of *Homo neanderthalensis aniensis* (Sergi, 1934): the human fossil record in Europe between MIS 7 and MIS 5. Colloque scientifique international Montmaurin, Montmaurin (France), 01-04/04/2019.
- 20/09/2018 – **Buzi, C.**, Di Vincenzo, F., Profico, A., Tafuri, M.A., Manzi, G. – On the shoulders of the past. The scapula of the Neanderthal from Altamura, Italy. XV FISV Congress (*Federazione Italiana Scienze della Vita*), Rome (Italy), 18-21/09/2018
- 05/06/2018 – **Buzi, C.**, Di Vincenzo, F., Profico, A., Tafuri, M. A., Manzi G. – Digital alignment and virtual reconstruction of the cranium of the 'Altamura Man', Bari, Italy. XVIII world UISPP Congress (*Union Internationale des Sciences Préhistoriques et Protohistoriques*), Paris (France), 04-09/06/2018

### **Posters (selection)**

- 25/09/2025 – **Buzi, C.**, Profico, A., Lorenzo, C., Manzi, G. - Altamura (southern Italy): the first description of the inner structures of a Neanderthal nasal cavity. 14<sup>th</sup> ESHE annual meeting (*European Society for the Study of Human Evolution*), Paris (France), 25-27/09/2025
- 03/09/2024 – **Buzi, C.**, Profico, A., Zeppilli, C. - A preliminary analysis of maxillary sinuses variability in fossil and modern humans. 1<sup>st</sup> Congress, *Gruppo Italiano Giovani Antropologo* (Young Anthropologists' Italian Group), Rome (Italy), 02-03/09/2024
- 21/09/2023 – **Buzi, C.**, Röding, C., Harvati, K. - Steinheim: first digitization and digital alignment of additional fragments from the left cranial side. 13<sup>th</sup> ESHE annual meeting (*European Society for the Study of Human Evolution*), Aarhus (Denmark), 21-23/09/2023
- 22/09/2022 – **Buzi, C.**, Profico, A., Liang, C., Khonsari, R. H., O'Higgins, P., Moazen, M., Harvati, K. - *Icex* and *Icv*: two new digital tools for the automatic extraction and calculation of intracranial volumes. 12<sup>th</sup> ESHE annual meeting (*European Society for the Study of Human Evolution*), Tübingen (Germany), 22-24/09/2022
- 22/09/2021 – **Buzi, C.**, Profico, A., Di Vincenzo, F., Melchionna, M., Raia, P., Manzi, G., Harvati, K. – The retrodeformation of the cranium from Steinheim an der Murr, Baden-Württemberg, Germany. 11<sup>th</sup> ESHE annual meeting (*European Society for the Study of Human Evolution*), Worldwide (online), 22-24/09/2021
- 24/09/2020 – **Buzi, C.**, Profico, A., Boggioni, M., Di Vincenzo, F., Marchi, D., Moggi-Cecchi, J., Tafuri, M.A., Manzi, G. – Digital techniques applied to a Neanderthal skeleton still preserved *in situ*: the case-study of Altamura (Bari, Italy). 10<sup>th</sup> ESHE annual meeting (*European Society for the Study of Human Evolution*), Worldwide (online), 24-25/09/2020
- 20/02/2020 – **Buzi, C.**, Profico, A., Di Vincenzo, F., Tafuri M.A., Manzi G. – New methods of 'Virtual Anthropology' applied to fossil specimens preserved *in situ*: the case of the Neanderthal skeleton from Altamura. SCIENCE ABC (Science Applications Becoming Culture), Rome (Italy), 19-21/02/2020.
- 19/09/2019 – **Buzi, C.**, Profico, A., Davis, C., Melchionna, M., Veneziano, A., Raia, P., Manzi, G. – A New Tool for Digital Alignment in Virtual Anthropology. 9<sup>th</sup> ESHE annual meeting (*European Society for the Study of Human Evolution*), Liège (Belgium), 19-21/09/2019
- 06/09/2019 – Zeppilli, C., Panella, S., Profico, A., **Buzi, C.** – Are the human maxillary sinuses sexually dimorphic? An evaluation by means of Virtual Anthropology. XXIII AAI Conference (*Associazione Antropologica Italiana*), Padova (Italy), 04-06/09/2019

- 13/09/2018 – **Buzi, C.**, Landi, F., Melchionna, M., Profico, A., Schlager, S., Valoriani, V., Veneziano, A., Zeppilli, C., Raia, P., Moggi-Cecchi, J., Manzi, G. – CA-LSE and AST-3D: two new digital tools for reproducing the inner cavities of skeletal elements. 8<sup>th</sup> ESHE annual meeting (*European Society for the Study of Human Evolution*), Faro (Portugal), 13-15/09/2018
- 06/09/2017 – **Buzi, C.**, Micarelli, A., Profico, A., Conti, J., Grassetto, R., Cristiano, W., Di Vincenzo, F., Tafuri, M. A., Manzi, G. – New challenges for research and dissemination in virtual anthropology: applications to the case study of fossils and artifacts from Saccopastore (Rome, Italy). XXII AAI Conference (*Associazione Antropologica Italiana*), Monteporzio Catone (Rome, Italy), 06-08/09/2017

## RESEARCH GRANTS

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### Individual grants

- 13/05/2025 – **Italian Ministry of University and Research and European Union – NextGenerationEU**. *Finanziamento di progetti presentati da giovani ricercatori (Bando Young Researchers, linea MSCA)*, No. MSCA2024\_0000022 (€297.450,00). Role: PI.
- 29/04/2024 – **Deutsche Forschungsgemeinschaft (DFG) Center for Advanced Studies "Words, Bones, Genes, Tools: Tracking Linguistic, Cultural and Biological Trajectories of the Human Past" fellowship** (€18.600,00). Institute for Archaeological Sciences, University of Tübingen (Germany). Role: Research fellow.
- 08/02/2021 – **European Commission – H2020-Marie Skłodowska-Curie Individual Fellowship** (€172.932,48). *N-SPIRE - The Neanderthal nose: reconstruction of shape, function and adaptations*. Beneficiary: IPHES - Institut Català de Paleoecologia Humana i Evolució Social (Spain). Role: Main Researcher.

### Non-academic funding

- 17/07/2023 – **Ayuntamiento de Tarragona - Tarragona Municipal Government** (€10.000,00). *Funding for the congress A.H.E.A.D: Advances in Human Evolution, Adaptation & Diversity 2023, organized by Federica Landi, Costantino Buzi, Alessio Veneziano, Antonietta Del Bove, Mikel Arlegui Virto, Carlos Lorenzo Merino and Marina Lozano Ruiz*. Beneficiary: IPHES - Institut Català de Paleoecologia Humana i Evolució Social (Spain). Role: Co-organizer.
- 2019 - 2024 – **Ministry of Foreign Affairs and International Cooperation of Italy (MAECI)**. *Study and valorization of Plio-Pleistocene paleoanthropological sites (Olduvai and Laetoli) in Northern Tanzania*. 7 rounds of financing (2019 – 2025), for a total of € 107.000,00. PI: Giorgio Manzi (Sapienza University of Rome). Role: Researcher, paleoanthropology.

## AWARDS

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- 08/09/2023 – **Ph.D. in Archaeology Award** – XX world UISPP Congress (*Union Internationale des Sciences Préhistoriques et Protohistoriques*). **Buzi, C.** – *Morphology of the inner structures of the facial skeleton in Homo neanderthalensis and the case-study of the Neanderthal from Altamura (Bari, Italy)*

## CURRENT AND PAST PARTICIPATION TO INTERNATIONAL RESEARCH PROJECTS

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Tanzania Human Origins Research Project (THOR) – Team member

European Cooperation in Science & Technology (COST) - Action CA19141 - Integrating Neandertal Legacy: From Past to Present (iNEAL), Working Group 1. 2022-2024.

Agència de Gestió d'Ajudes Universitàries i de Recerca (AGAUR, Generalitat de Catalunya) - "Social, Cultural, and Biological Evolution during the Pleistocene (StEP)" (Ref. 2021-SGR-01239, P.I. Andreu Ollé Cañellas, IPHES). 2022-2024.

## INVITED TALKS AND OUTREACH ACTIVITIES

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- 25/11/2024 – *Fossili italiani del Pleistocene ed evoluzione dei Neanderthal*. Invited lecture for the 8<sup>th</sup> edition of the initiative [QuarantaScienza - "Scienziati online"](#) organized by the Italian National Academy of Science "detta dei XL".
- 26/09/2024 – *Fòssils humans a Itàlia: Altamura i altres històries*. Talk for Nit Europea de la Recerca (European Researcher's Night), FiraReus Events, Reus, Spain.
- 13/05/2024 – *La historia del Neanderthal entre las estalactitas*. Talk for the "Pint of Science" Festival, Sala Zero, Tarragona, Spain.
- 08/02/2024 – *Fossili umani in Italia: Altamura e altre storie*. Invited lecture for Darwin Day 2024, Milan Natural History Museum, 08-09/02/2024, Milan, Italy.
- 21/09/2023 – *N-SPIRE: The Neanderthal nose: reconstruction of shape, function and adaptations*. Virtual poster "European Corner" for Nit Europea de la Recerca (European Researcher's Night), <https://lanitdelarecerca.cat/n-spire-the-neanderthal-nose-reconstruction-of-shape-function-and-adaptations/>.

- 15/02/2023 – **Biologia scheletrica– Scheletro assile e cinto pelvico**. Lecture for the 2<sup>nd</sup> level of the Perugia School of Paleoanthropology (Winter School), 13-18/02/2023, Perugia, Italy.
- 20/06/2022 – **Australopitèci – Paleontologia sistematica I**. Lecture for the 2<sup>nd</sup> level of the Perugia School of Paleoanthropology (Winter School), 20-25/06/2022, Perugia, Italy.
- 01/01/2020 – 31/10/2020 – **Museum educator (Freelance collaborator) at Associazione Paleoes** – "Luigi Pigorini" National Museum of Prehistory and Ethnography, Rome. Organisation of guided visits and workshops for primary schools, focused on human evolution and prehistory.
- 27/02/2019 – **Endocranial cavities and inner structures**. Lecture for the 2<sup>nd</sup> level of the Perugia School of Paleoanthropology (Winter School), 25/02-02/03/2019, Perugia, Italy.
- 25/02/2019 – **Neanderthals in Italy**. Lecture for the 2<sup>nd</sup> level of the Perugia School of Paleoanthropology (Winter School), 25/02-02/03/2019, Perugia, Italy.
- The Neanderthal in the karst**. Lecture for the 2<sup>nd</sup> level of the Perugia School of Paleoanthropology (Winter School), 25/02-02/03/2019, Perugia, Italy.

## PROFESSIONAL MEMBERSHIPS

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- Associazione Antropologica Italiana (AAI)
- European Society for the Study of Human Evolution (ESHE)
- Gruppo Italiano Giovani Antropologø (GIGA)
- International Union of Prehistoric and Protohistoric Sciences (UISPP)
- Società Paleontologica Italiana (SPI)

## MOBILITY EXPERIENCE

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- 27/02 - 18/05/2023 – Moazen Lab, Department of Mechanical Engineering, University College London (UK). Visiting Researcher.
- 11 - 30/06/2018 – Centro Mixto UCM-ISCIID de Evolución y Comportamiento Humanos (Madrid, Spain). Visiting Student.
- 03/06 - 01/07/2019 – Centro Mixto UCM-ISCIID de Evolución y Comportamiento Humanos (Madrid, Spain). Visiting Student.

## RELEVANT FIELD EXPERIENCE

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**Olduvai Gorge - Laetoli, Tanzania** – Tanzania Human Origins Research (T.H.O.R.). PI: Giorgio Manzi. Survey and excavation. Field campaign in the years 2017, 2018, 2023, 2024, 2025.

**Sierra de Atapuerca, Burgos, Spain** – Atapuerca Research Project. PIs: Juan Luis Arsuaga, José María Bermúdez de Castro and Eudald Carbonell. Field campaign in the years 2017, 2018, 2023, 2024.

**Pinilla del Valle, Madrid, Spain** – El valle de los Neandertales archeological site. PIs: Juan Luis Arsuaga, Enrique Baquedano and Alfredo Pérez González. Field campaign 2018.

**Lamalunga Cave, Altamura, Italy** – "K.A.R.S.T." research project on the "Altamura Man". PI: Giorgio Manzi. Cave descents, sampling and acquisition in the cave in the years 2018 and 2019.