

CURRICULUM VITAE ET STUDIORUM

NAME and SURNAME

GREGORIO OXILIA

PLACE AND DATE OF BIRTH

VERONA (VR) 14/01/1988

CITIZENSHIP

Italian

POSITION

Associate professor in Human Anatomy



PROFESSIONAL PROFILE

I am an anatomico-morphologist and evolutionary osteologist specializing in evolutionary anthropology. My teaching activities focus on the study of human anatomy and topographic anatomy through both traditional and digital approaches. My work centers on the anatomical and morphological study of human organs and tissues, both hard and soft, combining traditional methods, such as anatomical cadaveric dissection, with advanced digital methodologies to analyze and interpret structural variations and evolutionary adaptations. I trained at prestigious institutions, including the Max Planck Institute in Leipzig and the Senckenberg Research Institute in Frankfurt, and earned a Ph.D. in Evolutionary Biology (Anthropology and Primatology) from the University of Florence. I further specialized in human anatomy at Monash University (Melbourne, Australia), focusing on cranial and post-cranial skeletons, cadaveric dissection, and dental tissue analysis using Geometric Morphometric techniques.

I apply digital analysis to the study of human tissues, particularly teeth, combining multidisciplinary approaches for both research and education. I have coordinated research projects, educational activities, and third mission initiatives, with results published in high-impact international journals. Fluent in English and experienced as a Project Manager in the biomedical and healthcare sectors, I have successfully managed research teams, complex projects, and international collaborations, demonstrating versatility and leadership in both academic and corporate settings.

NATIONAL SCIENTIFIC QUALIFICATIONS

Achievement of the national scientific qualification for the role of Associate Professor in the following academic sectors:

- 05/H1 – **Human Anatomy** - BIO16
Call D.D. 553/2021, from 12/19/2023 to 12/19/2034
- 05/B1 – **Zoology and Anthropology** – BIO08
Call D.D. 553/2021, from 02/03/2022 to 02/03/2034
- 10/A1 **Archaeology** - LANT01
Call D.D. 553/2021, from 12/27/2023 to 12/27/2034
- Registered in the list of Cultural Heritage Professionals recognized by the Ministry of Cultural Heritage and Activities: Professional profile: **Physical Anthropology**, CATEGORY 1, pursuant to Article 9-bis of the Code, Law No. 110 of July 22, 2014, and Ministerial Decree of May 20, 2019, No. 244.

ACADEMIC POSITION

Current Position

May 2026 – Present - **Associate Professor** in Human Anatomy - Department of Medicine and Surgery - LUM Giuseppe Degennaro University

Previous Academic Positions

- November 2024 – May 2026 - **Senior Assistant Professor** (Tenure-track) in Human Anatomy - Department of Medicine and Surgery - LUM Giuseppe Degennaro University
- September 2018 to September 2023 - **Junior Assistant Professor** (RTDa) within the ERC project no. 724046 (SUCCESS) - BONES Lab - University of Bologna
- November 2017 to August 2018 - **Postdoctoral Fellow** within the ERC project no. 639286 (HIDDEN FOODS) - DANTE Lab – Department of Oral and Maxillofacial Sciences - Sapienza University of Rome

EDUCATIONAL QUALIFICATIONS

- March 16, 2018 - **PhD in Biology (XXX cycle, BIO/08 Anthropology and Primatology)** Department of Biology, University of Florence. Thesis in Evolutionary biology, medicine and anthropology, title: “Human dental tissues: Advancement in virtual dental analysis.”
- November 22nd, 2024 - **MASTER I Level** - Biomedical Project Management - UNICUSANO University - 110 cum laude/110
- July 16, 2014 - **Master's Degree in Quaternary, Prehistory and Archaeology - LM-2 Archaeology (DM 270/04)** Department of Human Sciences – University of Ferrara - Thesis in Evolutionary biology, medicine and anthropology, title: Reconstruction of Parafunctional Masticatory and Paleonutritional Activities of the Villabruna Man - 110 cum laude/110
- November 29, 2011 - **Bachelor's Degree in Cultural Heritage - L1 Archaeology (DM 270/04)** - Department of Cultural Heritage - University of Verona - Thesis in Evolutionary anthropology and absolute dating.

EDUCATION AND TRAINING:

- *May 5 – 15, 2026* - Finite Element Analysis Applied to Life Sciences – Transmitting science course
- *23 November 2025* - Cadaveric dissection: ATM e NERVI CRANICI – ICLO Verona
- *27 October 2025* - Cadaveric dissection: Anatomy Lab TRONCO – ICLO Verona
- *15-26 September 2025* - Python Machine Learning in Biology - Transmitting Science
- *May 4, 2025* - Cadaveric dissection: Cadaver Lab - Full Trunk - ATS Course (Milan)
- *May 3, 2025* - Cadaveric dissection: Cadaver Lab - Upper Limb and Head - ATS Course (Milan)
- *May 2, 2025* - Cadaveric dissection: Cadaver Lab - Lower Limb - ATS Course (Milan)
- *March 28 to May 10, 2023* - Quantitative methods course – University of Bologna
- *July 10 to 15, 2023* - Workshop in Anthropology and Osteology – LABANOF (Prof. Cristina Cattaneo University of Milan and Prof. Robert Mann from the University of Hawaii)
- July 3, 2023 - Forensic Anthropology – Skeletal Analysis - Udemy
- November 30, 2022 - Data Analysis and Applied Statistics in R – Udemy
- *August 24 to 28, 2020* - Workshop in 3D Geometric Morphometrics – Transmitting science course
- *October 20-21, 2016* - Workshop in Virtual Reconstruction and Computational Biomechanics – Department of Anatomy and Developmental Biology of Monash University, located at Clayton

Campus in Melbourne (Australia)

- *September – December 2016* - Anatomical dissection at the Monash University - School of Biomedical Sciences - Faculty of Medicine Nursing and Health Sciences (Clayton VIC 3800, Australia)

PROJECT ACTIVITIES

The research activity described below focuses on morphometric anatomy of the human body, addressing medical, osteological, pathological, paleodemographic aspect. These studies are conducted using a variety of methodological approaches, both traditional and virtual, within the BIO/16 and BIO/08 Scientific Sectors.

Principal investigator of the following funded project activities:

- PRIN: Nationally Significant Research Projects – 2022 call
Principal Investigator of the project “HABITS - Life-histories of prehistoric human groups in South America: a tale on environmental adaptations and subsistence economies”
Duration: 24 months. Ministerial funding: €208,334.
Since September 2023, due to the expiration of my contract with the University of Bologna, I had to relinquish the direction of the project.
- Three-year ministerial scholarship (€13,638.47 gross per year) - PhD in Biology 2015-2018 for the project: “Human dental tissues: Advancement in virtual dental analysis.”

Projects submitted as PI to competitive calls under review:

- FIS (Fondo Italiano per la Scienza) for the project: “PROSTH - Personalized Restoration and Optimization of Stomatognathic Tissue Health”

Collaborator of the following funded project activities:

- PRIN n. 2015WPHSCJ_002 (KARST project; 2017-2020) – University of Florence
- H2020 ERC n. 639286 (HIDDEN FOODS; 2015-2021) - Sapienza University of Rome
- H2020 ERC no. 724046 (SUCCESS; 2017-2022) – University of Bologna

Projects submitted as PI to competitive calls but not funded:

- Global Marie Curie (Proposal ID 101154537) for the project: “IMPACT - The impact of biological variables on dental implant success.”
- Global Marie Curie (Proposal ID 101066014) for the project: “ROOTS - Unravelling how social determinants affect teeth, facial asymmetry, and basicranial morphology.”
- Global Marie Curie (Proposal ID 101031286) for the project: “ASYMMETRY - The relationship between occlusion and postural control: a holistic approach to studying skeletal asymmetries in *Homo sapiens*.”

PARTICIPATION IN NATIONAL AND INTERNATIONAL RESEARCH GROUPS

Active participation in multidisciplinary research groups, both nationally and internationally, focusing on physical anthropology and human anatomical studies within the BIO/16 and BIO/08 Scientific Sectors.

- BONES Lab – University of Bologna
From September 2018 to September 2023, I played an active role in the research and study of morphological asymmetries in the skull, dental tissues (hard tissues) and body (soft tissues) using advanced digital techniques. The project involved the analysis of human remains from different periods, including individuals from the Plio-Pleistocene. My main responsibility was developing innovative virtual methods that effectively integrated traditional laboratory methodologies. The main goal was to improve accuracy in identifying morphological anomalies in human tissues, with a specific focus on teeth and bones. Additionally, I contributed to the creation of new R scripts to quantify asymmetrical anomalies in the human skeletal structure.

- Paleoanthropology Lab (University of Florence)
Between 2017 and 2020, I participated as a PhD student in the PRIN project n. 2015WPHSCJ_002 (KARST project) at the Department of Biology, University of Florence. The project, titled "Rediscovering Altamura: advanced multidisciplinary investigations on the skeleton from the Lamalunga cave, Italy," was coordinated by Prof. Giorgio Manzi. As part of this project, I served as a physical and evolutionary anthropologist, contributing my expertise in both traditional and virtual analysis.
- Paleodiet Research Lab and Evans EvoMorph Lab (Monash University – Australia)
From September 2016 to December 2016, I participated as a guest PhD student in the research activities of these labs. During my stay, I contributed to the analysis of human and non-human primates using innovative approaches. Activities included cadaver studies, dissections, dental wear analysis, and research on the masticatory apparatus and dental biomechanics.
- Max Planck Institute for Evolutionary Anthropology
Between September 2013 and January 2014, I participated as a Master's student in the research activities of the Department of Human Evolution (Director: J.J. Hublin) under the supervision of Prof. Stefano Benazzi. During this experience, I worked on the study and virtual analysis of human remains (both fossil and recent).
- Senckenberg Research Institute and Natural History Museum
Between September and October 2013, I participated as a Master's student in the research activities of the "Senckenberg Research Institute and Natural History Museum" Palaeoanthropology Section (Head of Division: Prof. Dr. Ottmar Kullmer), located at Senckenberganlage 25, 60325 Frankfurt am Main, Germany, in the Department of Paleontology. During this experience, I conducted analysis on the occlusal surface (wear facets) by using the Occlusal Fingerprint Analysis, examined hard tissues, identified dental pathologies, and processed data obtained through occlusal compasses, as well as studied human and non-human skeletal remains.

UNIVERSITY TEACHING ACTIVITIES

Teaching activities related to university education for subjects and topics within the BIOS-12/A and BIO/08 sector at the LUM University and University of Bologna:

2025-2026

- Medical Image Processing: a support for Medicine (AFASS – 1 CFU) Department of Medicine and Surgery, LUM University
- Evolutionary Medicine (AFASS – 1 CFU) Department of Medicine and Surgery, LUM University
- Integrated Course in Morphofunctional Basics of the nervous system – Modulo di Neuroanatomia (1 CFU – 10 hours). Master's Degree Program in Medicine and Surgery, Single-Cycle, A.Y. 2025/2026. Department of Medicine and Surgery, LUM University
- Integrated Course in Morphofunctional Basics of the Human Body (2 cfu – 24 hours) Master's Degree Program in nursing, Single-Cycle, A.Y. 2024/2025. Department of Medicine and Surgery, LUM University
- Integrated Course of Cytology, histology, and developmental biology (module in Microscopic Structure of Organs and Developmental Biology 2 cfu – 20 hours) Master's Degree Program in Dentistry and Dental Prosthetics, Single-Cycle, A.Y. 2025/2026. Department of Medicine and Surgery, LUM University
- Integrated Course in Human Anatomy (3 cfu – for two classes - 60 hours) Master's Degree Program in Medicine and Surgery, Single-Cycle, A.Y. 2024/2025. Department of Medicine and Surgery, LUM University
- Integrated Course in Human Anatomy (2 cfu – 20 hours) Master's Degree Program in Dentistry and Dental Prosthetics, Single-Cycle, A.Y. 2025/2026. Department of Medicine and Surgery, LUM University

2024-2025

- Theoretical and Practical Course on Sectional Anatomy for Medical and Surgery Students (1 CFU- 12 hours – AFASS activity) in collaboration with ICLO Teaching and Research Center.
- Integrated Course in Human Anatomy (module in Splanchnology– 1 cfu – 12 hours) Master's Degree Program in Medicine and Surgery, Single-Cycle, A.Y. 2024/2025. Department of Medicine and Surgery, LUM University
- Integrated Course in Human Anatomy (module in Human Anatomy - 4 cfu – 48 hours) Master's Degree Program in Dentistry and Dental Prosthetics, Single-Cycle, A.Y. 2024/2025. Department of Medicine and Surgery, LUM University
- Foundation Course (18 hours) Lecturer in Evolutionary Biology (Scientific & Technological Area) Department of Medicine and Surgery, LUM University
- Integrated Course of Cytology, histology, and developmental biology (module in Microscopic Structure of Organs and Developmental Biology 1 cfu – 12 hours) Master's Degree Program in Dentistry and Dental Prosthetics, Single-Cycle, A.Y. 2024/2025. Department of Medicine and Surgery, LUM University
- Integrated Course in Morphofunctional Basics of the Human Body (3 cfu – 36 hours) Master's Degree Program in nursing, Single-Cycle, A.Y. 2024/2025. Department of Medicine and Surgery, LUM University

2022-2023:

- Archaeological Research Methodology (Module 2 - 26 hours) (*I explained how hard tissues, such as teeth, should be collected and studied to achieve the maximum informational yield at a medical level*). Master's Degree in Conservation and Restoration of Cultural Heritage (qualification pursuant to Legislative Decree no. 42/2004) Department of Cultural Heritage – University of Bologna.
- Lectures on Anthropology and Biology Applied to Cultural Heritage (Module 1 - 48 hours) (*I explained the structure of the human body, focusing on the identification of hard tissues, the entire human skeleton, and, in particular, the detailed study of teeth*) Master's Degree in Conservation and Restoration of Cultural Heritage (qualification pursuant to Legislative Decree no. 42/2004) Department of Cultural Heritage – University of Bologna.
- Lectures on Anthropology and Biology Applied to Cultural Heritage (Module 2 - 24 hours) (*I explained the structure of the human body, focusing on the identification of hard tissues, the entire human skeleton, and, in particular, the detailed study of teeth*) Master's Degree in Conservation and Restoration of Cultural Heritage (qualification pursuant to Legislative Decree no. 42/2004) Department of Cultural Heritage – University of Bologna.

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2020-2021:

- Physical Anthropology (48 hours) (*I explained the complete human anatomy, the evolutionary reasons behind our biological structure, and the cultural influences that have shaped it, along with the resulting pathological anomalies observed in recent years*) Bachelor's Degree in Cultural Heritage, Department of Cultural Heritage – University of Bologna.
- Lectures on Anthropology and Biology Applied to Cultural Heritage (Module 2 - 24 hours) (*I explained the structure of the human body, focusing on the identification of hard tissues, the entire human skeleton, and, in particular, the detailed study of teeth*)

Master's Degree in Conservation and Restoration of Cultural Heritage (qualification pursuant to Legislative Decree no. 42/2004) Department of Cultural Heritage – University of Bologna.

2019-2020:

- Lectures on Anthropology and Biology Applied to Cultural Heritage (Module 2 - 24 hours) (*I explained the structure of the human body, focusing on the identification of hard tissues, the entire human skeleton, and, in particular, the detailed study of teeth*)
Master's Degree in Conservation and Restoration of Cultural Heritage (qualification pursuant to Legislative Decree no. 42/2004) Department of Cultural Heritage – University of Bologna.

2018-2019:

- Lectures on Anthropology and Biology Applied to Cultural Heritage (Module 2 - 24 hours) (*I explained the structure of the human body, focusing on the identification of hard tissues, the entire human skeleton, and, in particular, the detailed study of teeth*)
Master's Degree in Conservation and Restoration of Cultural Heritage (qualification pursuant to Legislative Decree no. 42/2004) Department of Cultural Heritage – University of Bologna.

TEACHING ACTIVITIES WITHIN UNIVERSITY SPECIALIST TRAINING:

- February 26 – March 13 (Master in “Clinical Management and Instrumental Diagnosis of Osteoporosis and Bone Metabolism Disorders: Bone Specialist – MAMOS) (18 hours) Lecturer in Human Skeleton (LUM School of Management).
- June 8-10, 2022 (Training School - Ravenna) (20 hours)
Lecturer at the workshop titled: "Introduction to segmenting/visualizing image data from (micro)-CT scan" organized by Working Group 1 (Fossil data) of *Integrating Neandertal Legacy: From Past to Present – iNEAL* (CA19141).
- June 17-19, 2019 (Summer School - Ravenna) (8 hours)
Summer School: "Acquiring and post-processing 3D data in anthropology and archaeology" - Class 2 (Advanced). Lecture on geometric morphometrics, specifically "Application of the template to the target."
- February 26, 2016 (8 hours):
Lectures on Dental Anthropology and Virtual Anthropology at the School of Paleoanthropology (sixth edition). Department of Physics and Geology, University of Perugia.

OTHER ACADEMIC ACTIVITIES:

- Member of the Doctoral Faculty Board of the PhD Program in “Translational Medicine and Engineering: Advanced Technologies for Health (MED-TECH)”, LUM University.
- Coordinator of the First Year of the Degree Course in Medicine and Surgery
- Member of the Teaching Council of the Degree Course in Medicine and Surgery
- Member of the Joint Committee (CPDS - Joint Student-Teacher Committees) Department of Medicine and Surgery (MED): (CdS LM-46R); Department of Medicine and Surgery, LUM University.
- Coordinator of the Integrated Course in Human Anatomy in the Master's Degree Program in Dentistry and Dental Prosthetics, Single-Cycle, Academic Year 2024/2025 and 2025/2026. Department of Medicine and Surgery, LUM University.
- Subject Expert in the BIO/08 scientific disciplinary sector – Physical Anthropology and Paleoanthropology. Competitive sector 05/B1. Appointed by the Department of Cultural Heritage of the University of Bologna from 2015 to 2018.
- 2018-2023: Member of the Scientific Committee of BONES Lab, University of Bologna
- 2018-2023: Deputy Director of BONES Lab, University of Bologna
- 2018-2023: Member of academic committees, University of Bologna
- Member of the selection committee for the PhD in Cultural and Environmental Heritage - University of Bologna.

- Member of the TOLC committee (2021-2023), University of Bologna.
- Member of the selection committee for a public competition for the position of Category D, Technical-Scientific Area - BONES Lab, University of Bologna.
- Member of the research grant committee, University of Bologna.

THESIS CO-SUPERVISOR (BIOS-12/A and BIO/08):

I supervised and co-supervised multiple theses at the bachelor's, master's and doctoral levels, focusing on topics ranging from dental anthropology to virtual restoration and bioarchaeological analyses, contributing to the academic growth of numerous students.

2025-2028

Doctoral thesis title: "Multimodal Artificial Intelligence Framework for Clinical Decision Support on Brain Imaging Data"

2025-2026

Master's thesis title: "Taekwondo e valutazioni antropometriche nell'età evolutiva - studio trasversale osservazionale sulle caratteristiche antropometriche e prestantive di giovani atleti di taekwondo" conducted at LUM "Giuseppe Degennaro", Department of Medicine and Surgery in collaboration with the University of Ferrara, Department of Neuroscience and Rehabilitation.

2022-2023

Master's Thesis Title: "Histological Analysis of Enamel Dental Defects in Two Individual Plague Victims From Lazzaretto Vecchio (Venice, Italy)." Department of Cultural Heritage, University of Bologna.

- Master's Thesis Title: "Virtual Restoration and Digital Analyses of Human Teeth from Riparo Dalmeri Site (Trento, Italy)." Department of Cultural Heritage, University of Bologna.
- Bachelor's Thesis Title: "Review of studies on Homo naledi: from discovery to the latest research." Department of Cultural Heritage, University of Bologna.

2021-2022

- Master's Thesis Title: "Disability and accessibility to culture: 3D modeling as a valid tool for integration." Department of Cultural Heritage, University of Bologna.

2020-2021

- Bachelor's Thesis Title: "Leonardo and the study of the human body. Anatomical sheets and character faces." Department of Cultural Heritage, University of Bologna.
- Master's Thesis Title: "Works of Art and Artificial Intelligence: the case of Nicolò Zen." Department of Cultural Heritage, University of Bologna.
- Bachelor's Thesis Title: "Facial reconstruction in paleoanthropology and forensics." Department of Cultural Heritage, University of Bologna.
- Master's Thesis Title: "Micro-stratigraphic excavation of the funerary urn and anthropological analysis of cremated remains: traditional and virtual approach." Department of Cultural Heritage, University of Bologna.
- Bachelor's Thesis Title: "Italian sites that have yielded Neanderthal remains between 130,000–35,000 years ago." Department of Cultural Heritage, University of Bologna.

2019-2020

- Master's Thesis Title: "The use of radiological techniques as support for the analysis of paleoanthropological remains." Department of Morphology, Surgery, and Experimental Medicine, University of Ferrara.
- Master's Thesis Title: "Taxonomic discrimination of anterior dental roots using machine learning algorithms." Department of Humanities, University of Ferrara.
- Bachelor's Thesis Title: "Virtual restoration and morphometric analysis of a Mesolithic skullcap from the site of S'Orku e S'Orku." School of Humanities, University of Bologna.
- Bachelor's Thesis Title: "Middle Pleistocene human fossils in Asia." Department of Cultural Heritage, University of Bologna.
- Master's Thesis Title: "Virtual approach to the study of a human remain from a late Mousterian level at the Prince's Cave (Ventimiglia, Italy)." Department of Cultural Heritage, University of Bologna.

2018-2019

- Master's Thesis Title: "Dental Macrowear and 3D Enamel Thickness: a Comparative Study Between Ancient Italians and Croatsians." Master's in Skeletal Anthropology, Forensic and Paleopathology, University of Bologna.

2017-2018

- Master's Thesis Title: "A preliminary virtual study of maxilla and palatine bone morphology: sexual dimorphism and ontogeny." Department of Cultural Heritage, University of Bologna.
- Bachelor's Thesis Title: "From traditional to virtual: craniofacial reconstruction in bio-archaeological and forensic contexts." Department of Cultural Heritage, University of Bologna.

2016-2017

- Bachelor's Thesis Title: "The Uluzzian within the framework of the transition complexes from the Middle to Upper Paleolithic in Europe. Anthropological and cultural aspects." Department of Cultural Heritage, University of Bologna.

THIRD MISSION ACTIVITIES:

September 2025

Speaker of Scientific Outreach Event European Researchers' Night (ERN 2025) (September 26) – Talk "*Siamo Fatti Così! Un Viaggio nell'Evoluzione del Corpo Umano*"

September 2021 – September 2023

- Member of the Third Mission Committee, Department of Cultural Heritage, University of Bologna
- Supported and promoted initiatives related to the university's Third Mission aimed at social engagement and dissemination of scientific and cultural knowledge beyond academia.
- Proposed and coordinated scientific dissemination activities, including participation in the Researchers' Night.
- Organized seminars and educational activities to make scientific knowledge accessible to the public.
- Proposed and coordinated the first "Darwin Day" event to raise awareness about physical and genetic anthropology within cultural heritage.

September 2016 – September 2022

- Invited speaker at UniJunior (2020), University of Bologna, Ravenna Campus, contributing to the education and engagement of young students.
- Speaker at annual Darwin Day scientific dissemination events held in Frosinone (2014), Florence (2018), Ferrara (2019), Rimini (2020), and Ravenna (2022), presenting key concepts of evolution to the general public.
- Speaker at Pint of Science in Pisa (2016), promoting accessible science communication to a broader audience.

NATIONAL AND INTERNATIONAL CONFERENCE PRESENTATIONS

2025

- Speaker, 18–20 September 2025 – *SIAI (Società Italiana di Anatomia e Istologia)*. Talk: "Anatomical impact of neurocranial deformation on stomatognathic asymmetry".

2023

- Invited oral presentation, 5 September 2023 – *SIBE (Società Italiana di Biologia Evoluzionistica)*, Ancona. Talk: "Exploring directional and fluctuating asymmetry in the human palate during growth".

2022

- Invited oral presentation, 15 February 2022 – *Darwin Day 2022, Dipartimento di Beni Culturali, University of Bologna, Ravenna*. Talk: "SAPIENS – come ci ha plasmati la cultura del passato".
- Speaker, 15–19 August 2022 – *ISDM (18th International Symposium on Dental Morphology)*, Frankfurt. Talk: "New approach to assess the relationship between macrowear and enamel thickness in lower first molars".

2021

- Invited oral presentation, 29 October 2021 – *PACEA Workshop, University of Bordeaux, France*. Title: *Dental pathways through times: the mechanisms behind human dental reduction*. Talk: “Physiological and adaptive phenomenon of enamel reduction: a holistic view”.
- Speaker, 22–24 September 2021 (online) – *ESHE (European Society for the Study of Human Evolution)*. Talk: “Earliest western expansion of the Uluzzian groups and the late Neanderthal occupation in southern Italy”.

2019

- Speaker, 25 September 2019 – *AISF (Accademia Italiana di Scienze Forensi), Torino*. Talk: “Osteoarcheologia: Approcci Multidisciplinari per indagare i tessuti umani”.
- Presenter, 19–21 September 2019 – *ESHE (European Society for the Study of Human Evolution), Liège*. First author of Poster: “The most recent Neanderthal remains in Italy” and Co-author of Posters: “The ontogeny of bipedalism: insights from trabecular changes during growth”; Poster: “Elemental imaging of human teeth by laser ablation ICP-TOF-MS: fast acquisition and high-resolution”.
- Speaker, 4–6 September 2019 – *AAI (Associazione Antropologi Italiani), Padova*. Talk: “Earliest evidence of Focal Cemento-Osseous dysplasia in the Late Upper Palaeolithic”. Co-author of MiniTalk: “Assessing biological and cultural admixture in the Etruscan-Celtic population of Monterenzio Vecchio and Monte Bibebe (Bologna, Italy)”. Co-author of Poster: “Dental enamel proteins reveal the sex of the ‘Lovers of Modena’”.

2018

- Co-author, 28 November–1 December 2018 – *AIAZ (Associazione Italiana di Archeozoologia), Ravenna*. Poster: “Uomini, mammiferi, uccelli e ambiente: una prospettiva archeozoologica e quantitativa sulla transizione Paleolitico Medio/Paleolitico Superiore in Italia Settentrionale”.
- Presenter, 13–15 September 2018 – *ESHE (European Society for the Study of Human Evolution), Faro*. Poster: “A multidisciplinary approach to reconstruct Upper Palaeolithic and Mesolithic dietary habits: human adaptation to Pleistocene-Holocene environmental change in northeastern Italy”.
- First author, 11–14 April 2018 – *AAPA (American Association of Physical Anthropology), Austin, Texas*. Poster: “The physiological linkage between dental arch asymmetry, alveolar inclination and dental macrowear pattern”. Co-author of Poster: “Neonatal and postnatal mortality in Roccapelago through the study of human skeletal remains and parish records”.

2017

- Speaker, 21–23 September 2017 – *ESHE (European Society for the Study of Human Evolution), Leiden*. Talk: “The dawn of dentistry in the Late Upper Paleolithic: A deeper antiquity of biomedical care and surgical intervention”. Co-author of Posters: “Human deciduous teeth from the Middle Stone Age layers of Sibudu Cave (South Africa)”; Poster: “3D enamel thickness in Neanderthal and Homo sapiens permanent lower molars and premolars”.
- Speaker, 6–8 September 2017 – *AAI (Associazione Antropologi Italiani), Rome*. Talk: “L’origine dell’odontoiatria nel Tardo Paleolitico Superiore: l’antichità delle cure biomediche”. Co-author of Talks: “Neonatal and postnatal mortality in Roccapelago through the study of human skeletal remains and parish records”; “Nuovi resti di denti decidui dai livelli di Middle Stone Age di Sibudu Cave (South Africa)”.
- First author, 22 April 2017 – *AAPA (American Association of Physical Anthropology), New Orleans*. Poster: “The dawn of dentistry in the Late Upper Paleolithic”.

2016

- Co-author, 9–14 September 2016 – *ESHE (European Society for the Study of Human Evolution), Madrid*. Pecha Kucha: “Dental morphology and morphometrics of Upper Paleolithic human remains from Dzudzuana and Satsurblia caves, western Georgia”.

2015

- First author, 10–12 September 2015 – *ESHE (European Society for the Study of Human Evolution), London*. Poster: “Earliest evidence of proto-dental treatment in the Late Upper Paleolithic”.
- Speaker, 3–5 September 2015 – *AAI (Associazione Antropologi Italiani), Bologna/Ravenna*. Talk: “Earliest evidence of proto-dental treatment in the Late Upper Paleolithic”.

CONGRESS AND EVENT ORGANIZATION

Scientific Committee Membership

- Member of the Scientific Committee of LUM Giuseppe Degennaro University (Department of Medicine and Surgery) for the Theoretical and Practical Course on Sectional Anatomy (1 ECTS, 12 hours) in collaboration with the ICLO Teaching and Research Center.
- February 15, 2022 – Darwin Day 2022, Department of Cultural Heritage, University of Bologna, Italy.
- June 27 – July 1, 2016 – Summer School “Acquiring and Post-processing 3D Data in Anthropology and Archaeology”, Department for Cultural Heritage, University of Bologna, Ravenna, Italy.

Organizing Committee Membership

- September 16-17, 2025 – Induction Day, Department of Medicine and Surgery, LUM, Italy
- February 15, 2022 – Darwin Day 2022, Department of Cultural Heritage, University of Bologna, Italy.
- June 6–10, 2022 – International Workshop “Integrating Neandertal Legacy: From Past to Present – iNEAL”, Ravenna, Italy.
- September 4–6, 2019 – XXIII Congress of Italian Anthropologists (AAI) “Anthropology: What Are the Next Questions?”, Padova, Italy.
- June 27 – July 1, 2016 – Summer School “Acquiring and Post-processing 3D Data in Anthropology and Archaeology”, Department for Cultural Heritage, University of Bologna, Ravenna, Italy.

AWARDS AND RECOGNITIONS FOR RESEARCH ACTIVITY

- September 5, 2022 (Ancona) – SIBE (Italian Society for Evolutionary Biology) Doctor Darwin Prize for the best article presented by young SIBE members in evolutionary medicine. Awarded for the article by Oxilia et al. 2021 entitled: “Exploring directional and fluctuating asymmetry in the human palate during growth.” (€1,000).
- September 12, 2015 (London) – ESHE (European Society for the Study of Human Evolution) Prize for Best Research. Awarded for: “Earliest evidence of dental caries manipulation in the Late Upper Palaeolithic.” (€1,500).

SCIENTIFIC SOCIETY MEMBERSHIPS:

- Società Italiana di Anatomia e Istologia (SIAI).
- European Society for the Study of Human Evolution (ESHE).
- Società Italiana di Biologia Evoluzionistica (SIBE)

OSTEOLOGICAL AND ANATOMICAL SUPPORT to the archaeological field

- June 1 to July 19, 2019 – Participated in prehistoric archaeological excavation at Grotta di Uluzzo C, Puglia, Italy, focusing on identification of sex, age, pathologies, and age at death of human skeletal remains.
- July 11 to 22, 2016, and July 15 to August 8, 2015 – Participated in prehistoric archaeological excavation at Grotta dell'Alma Veirana, Liguria, Italy, providing osteological analyses of skeletal remains.
- August 1 to 27, 2014; August 12 to September 2, 2013; July 23 to August 11, 2012 – Participated in prehistoric archaeological excavations at Grotta di Fumane, Veneto, Italy, conducting anthropological evaluation of skeletal material.
- July 22 to August 12, 2013 – Participated in prehistoric archaeological excavation at Grotta del

Rio Secco, Friuli, Italy.

- July 10 to 14, 2013, and March 23 to June 25, 2012 – Participated in medieval emergency archaeological excavation, Mantova, Italy, contributing to osteological analyses.
- August 1 to 19, 2011 – Participated in Bronze Age archaeological excavation at Lucone di Polpenazze, Lombardia, Italy.

DIGITAL MEDICINE AND VIRTUAL ANTHROPOLOGY SKILLS AND SOFTWARE

Thanks to my knowledge in biological, anthropological, and medical fields, my research projects benefit from a holistic approach that enriches the interpretation of results. Additionally, my digital skills enable me to independently analyze human remains through the entire workflow:

- data acquisition (surface scanning, CT, MicroCT, synchrotron),
- data segmentation (using Avizo, 3Dslicer, Dragonfly software),
- post-processing (using Geomagic Design X, Amira, Meshlab software).

By applying digital and non-invasive methodologies such as Geometric Morphometrics, I obtain precise morphological and morphometric coordinates (using tools like Geomagic Design X, Rhinoceros, Viewbox, OFA software) suitable for statistical analyses (R, Python). Furthermore, I apply Artificial Intelligence techniques, with a focus on Machine Learning, to enhance data interpretation and predictive modeling.

PUBLICATION

Book Chapter Author:

- Gregorio Oxilia and Stefano Benazzi, "Similar, but different from us: Neanderthal men (and women)," XLVII seminar on biological evolution and the major problems of biology, human evolution and the origin of Homo sapiens, n. 141, 2021, contributions of the interdisciplinary Lincean center "Beniamino Segre."
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Casamassima, May 2026

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