

Personal information

First name/ Surname: **Elena Fiorin**
Date and place of birth: 10/02/1984, Pordenone (Italy)
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Language Skills: English (proficient); Spanish (proficient), French (basic)

I am a bioarchaeologist with an extensive training in the analysis of human skeletal remains. My research interests focus on paleopathology, dental occlusion and dental calculus analysis. After I obtained a degree in Archaeology at the University of Padua (Italy), I completed my PhD in Biological Anthropology at the Autonomous University of Barcelona (Spain) in October 2015. In 2018 I started to work with the Department of Archaeology of Durham University and later with the University of York. In York, I analysed human dental calculus from different burial sites in Alsace (France). I am still collaborating with the Autonomous University of Barcelona (Spain) and Durham University (UK) on dental calculus analysis. Since 2009, I worked on archaeological projects in Italy, Spain, UK, and USA, conducting several anthropological studies (both excavation and laboratory), supervising and teaching MA and BA students.

Education

- 2011-2015** PhD in Biological Anthropology, Faculty of Biology, Autonomous University of Barcelona (Spain). Thesis: *'The necropolis of Can Reiners (7th c. AD, Mallorca, Spain): demography, health, and lifestyle'*. Supervisor: Professor Assumpció Malgosa. Starting date 04/10/2011, doctorate date of award 09/10/2015.
- 2014** Visiting research student, Department of Archaeology, Durham University (UK). Supervisor: Dr Janet Montgomery. Topic of study: isotopes analysis. From 5/10/2014 to 31/12/2014.
- 2014** Visiting student (internship) at the National Museum of Natural History (NMNH), Department of Anthropology, Smithsonian Institute (Washington DC, USA). Supervisor: Professor Douglas H. Ubelaker. Topic of study: ancient demography. From 3/04/2014 to 4/07/2014.
- 2007-2010** MA in Archaeology, University of Padua, Italy (110/110 cum laude). Thesis: *'The Medieval Cemetery of the Church of San Pietro in Mavinas in Sirmione (Brescia, Italy) between the end of the 6th and the 14th centuries: a palaeobiological study of skeletal remains'*. Supervisor: Dr Alessandro Canci. Starting date 09/10/2007, MA date of award 22/10/2010.
- 2003-2007** BA in Archaeology, University of Padua, Italy (103/110). Thesis: *'An anthropological and palaeopathological study of the skeletal remains of the Late Roman necropolis of Sarcedo (Vicenza, Italy)'*. Supervisor: Dr Alessandro Canci. Starting date 01/10/2003, MA date of award 15/06/2007.

Professional experience

- 2018/2019** Postdoctoral researcher at the Department of Archaeology of the University of York. **Dental calculus analysis** for the AHRC-funded project Counter Culture: investigating Neolithic social diversity. I am responsible for the dental calculus analysis and Carbon and Nitrogen isotopes analysis
- 2019** **Dental calculus analysis** of roman and medieval skeletal remains coming from the necropolis of San Donato and the church of San Pietro in Lamon (Belluno, Italy). DARC laboratory, Department of Archaeology, Durham University (UK).
- 2019** Archaeological excavation and anthropological study of the skeletal remains coming from the cemetery of the medieval Abbey of San Salvatore di Tolla in Morfasso (Piacenza, Italy).
- 2019** Anthropological study of the roman necropolis of Montecchio Maggiore (Vicenza, Italy). Supervised by Soprintendenza Archeologia del Veneto.
- 2019** Structure-from-motion and 3D modeling reconstruction of archaeological human bones for the online course: Forensic Archaeology and Anthropology. Department of Archaeology, Durham

- University (UK). More info: <https://sketchfab.com/DurhamArchaeology> ; <https://www.futurelearn.com/courses/forensic-archaeology-and-anthropology/1/todo/55038>
- 2018** Anthropological study of two early medieval necropolises from Montecchio Maggiore (Vicenza, Italy). Supervised by Soprintendenza Archeologia del Veneto and funded by the Museum of Montecchio Maggiore (Vicenza).
- 2018** Research associate at York University. **Dental calculus analysis** (optical polarised microscopy) and reference collection building.
- 2018** Structure-from-motion and 3D modeling reconstruction of skeletal remains. The Scottish Soldiers project. DARC laboratory, Department of Archaeology, Durham University (UK). More info: <http://www.darclab.com/>; <https://www.dur.ac.uk/archaeology/research/projects/europe/pg-skeletons/>
- 2017** Archaeological excavation of the Visigothic site of Bureta, Zaragoza (Spain). Organised by Durham University (UK).
- 2016** Archaeological excavation and anthropological study of the individuals buried in the cemetery of the church of San Pietro in Lamon (Belluno, Italy). Supervised by Soprintendenza Archeologia del Veneto.
- 2015** Archaeological excavation in Vila Franca Do Campo (San Miguel, Azores), destroyed by an earthquake induced landslide. Supervised by Durham University (UK) and Lisbon University (Portugal).
- 2014** Anthropological study of the cremated individuals of the Iron age necropolis of Pian de la Gnella (Belluno, Italy). Supervised by Soprintendenza Archeologia del Veneto.
- 2012/2013** Archaeological excavation and anthropological study of the individuals buried in the cemetery of the church of San Pietro in Lamon (Belluno, Italy). Supervised by Soprintendenza Archeologia del Veneto.
- 2013** Fixed-term contract as a laboratory technician at the Laboratory of Biological Anthropology Unit, Autonomous University of Barcelona (Spain).
- 2013** Anthropological study of the early medieval necropolis of Palazzo Fulcis (Belluno, Italy). Supervised by Soprintendenza Archeologia del Veneto.
- 2012** Anthropological study of the medieval inhumations of Colle Umberto (Treviso, Italy). Supervised by Soprintendenza Archeologia del Veneto.
- 2011** Archaeological excavation and anthropological study of the individuals excavated at the medieval church of S. Eufemia (Brescia, Italy). Supervised by Soprintendenza Archeologia della Lombardia.
- 2010** Archaeological excavation and anthropological study of the inhumations of the church of San Pietro in Santa Giustina (Belluno, Italy). Supervised by Soprintendenza Archeologia del Veneto.
- 2010** Anthropological study of the individuals buried at the archaeological site of Villa Badia di Leno (Leno, Italy). Supervised by Soprintendenza Archeologia della Lombardia.
- 2010** Archaeological excavation and anthropological study of the late roman and medieval necropolis of the Church of S. Pietro in Mavinas, Sirmione (Brescia, Italy). Organised by: Soprintendenza Archeologia della Lombardia.
- 2010** Anthropological study and achievement of the exhibition panels for the project: '*Lombard Lords at the frontier. The necropolis of Spilamberto*'. Organised by: Soprintendenza Archeologia della Lombardia.

Publications

Peer-reviewed

- 1- Fiorin E, Sáez Goñalons L, Malgosa A. 2018.** Ferns as healing plants in Medieval Mallorca, Spain? Evidence from human dental calculus. *International Journal of Osteoarchaeology* 29(1):82-90. <https://doi.org/10.1002/oa.2718>

- 2- **Fiorin E**, Ibáñez-Gimeno P, Ubelaker DH, Isidro A, Malgosa A. **2017**. The population of Can Reiners: demography and life conditions on Mallorca (Balearic Islands, Spain) during the Middle Ages. *Journal of Archaeological Science – Reports* 15:120-131. <https://doi.org/10.1016/j.jasrep.2017.06.040>
- 3- **Fiorin E**, Ibáñez-Gimeno P, Cadafalch J, Malgosa A. **2017**. The study of dental occlusion in ancient skeletal remains from Mallorca (Spain): a new approach based on dental clinical practice. *Journal of Comparative Human Biology* 68(3):157-166. <https://doi.org/10.1016/j.jchb.2017.05.002>
- 4- **Fiorin E**, Isidro A, Ubelaker DH, Malgosa A. **2016**. A congenital sternum anomaly from a Late Roman burial from Mallorca, Spain. *Anthropologie - International Journal of Human Diversity and Evolution* 54(3):285-290.
- 5- **Fiorin E**, Cadafalch J, Ceperuelo D, Adserias MJ, Chimenos-Küstner E, Malgosa A. **2014**. Study of dental occlusion in ancient human remains: a methodological approach. *Collegium Anthropologicum* 38(3):993-1000.
- 6- Ibáñez-Gimeno P, Galtés I, Jordana X, **Fiorin E**, Manyosa J, Malgosa A. **2013**. Enteseal changes and functional implications of the humeral medial epicondyle. *International Journal of Osteoarchaeology* 23(2):211-220. DOI: 10.1002/oa.2299

Non peer-reviewed

- 1- Herrero-Otal M, **Fiorin E**, Malgosa A. **2019**. Aproximación A La Dieta Mediante El Análisis Del Contenido Del Cálculo Dental - El Caso De La Necrópolis Altomedieval De Cal Guardiola (Argentona, Barcelona), Actas del Congreso de la Sociedad Española de Antropología Física. Barcelona, 12-14 Julio 2017.
- 2- **Fiorin E**. **2015**. Lo studio antropologico dei resti cremati. In Gangemi G., Bassetti M., Voltolini D. (eds.). *Le signore dell'Alpago. La necropoli preromana di 'Pian de la Gnella', Pieve d'Alpago (Belluno)*. Edizioni Canova, Treviso.
- 3- **Fiorin E**. **2015**. 'The necropolis of Can Reiners (7th c. AD., Mallorca, Spain): demography, health, and lifestyle'. PhD thesis, Universitat Autònoma de Barcelona. <http://www.tdx.cat/handle/10803/313241>
- 4- Mazzucchi A, Canci A, Marinato M, **Fiorin E**, Chavarria A, Breda A, Cattaneo C. **2011**. Paleopathological analysis of the Early Middle Age in Northern Italy: a first preliminary survey. *American Journal of Physical Anthropology* Vol. 144, Issue Supplement 52, pp. 209-210. DOI: 10.1002/ajpa.21502
- 5- **Fiorin E**, Canci A. **2011**. I resti scheletrici umani: sintesi dello studio paleobiologico. In Brogiolo G.P. (ed.). *Nuove ricerche sulle chiese altomedievali del Garda*. Documenti di Archeologia 50, pp. 55-60.
- 6- **Fiorin E**. **2010**. Alcune valutazioni preliminari sui defunti longobardi di Spilamberto. In Breda A. (ed.). *Il tesoro di Spilamberto, Signori Longobardi alla Frontiera*, pp. 87-89.

Teaching and Tutoring

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| 2016/2017 | MA in Biological Anthropology, Autonomous University of Barcelona (Spain). Master student: Maria Herrero Otal. Dissertation: ' <i>Inferring human lifestyle from dental calculus microremains. The case study of the necropolis of Cal Guardiola (VII-IX cal AD; Argentona, Barcelona)</i> '. Supervisors: Malgosa A, Fiorin E . Academic Year: 2016/2017 |
| 2015/2016 | BA in Biological Anthropology, Autonomous University of Barcelona (Spain). B.A. student: Maria Herrero Otal. Dissertation: ' <i>What do teeth tell us? Dental calculus applications in archaeology</i> '. Supervisors: Malgosa A., Fiorin E . Academic Year: 2015/2016 |

- 2012/2015** Laboratory classes at the Biological Anthropology Unit (Autonomous University of Barcelona, Spain). Subject of the practicals: human anatomy, osteology, anthropometry, taphonomy, paleopathology, archaeology, **dental calculus analysis**. I supervised in four academic years 5 students for a total of 280 hours each.
- 2015** Biological anthropology course (15 hours) at the Specialisation School in Archaeology 'Nesiotikà', University of Sassari (Sardinia, Italy). Subjects of the classes: palaeodiet, palaeopathology, anthropometry, taphonomy. 26-27 February, 2015
- 2012/2013** Ithaca Project (72 hours) organised by the Autonomous University of Barcelona, the Institute of Education Sciences and the Faculty of Education. Our project, entitled '*A cold case in Africa: unearthing bones*' introduced students to the world of biological anthropology through the use of various scientific methods currently in use in forensic anthropology <http://pagines.uab.cat/campusitaca/>. From 11/06/2012 to 19/07/2012 and from 10/06/2013 to 18/07/2013.
- 2012/2013** MA in Biological Anthropology (Autonomous University of Barcelona, Spain). Master student: Elisenda Gimeno Jimenéz. Dissertation: '*The study of the oral pathology and the anomalous dental wear of the medieval population of Cal Guardiola, Argentona (Mataró)*'. Supervisors: Malgosa A., **Fiorin E.** Academic Year: 2012/2013
- 2012/2013** MA in Biological Anthropology (Autonomous University of Barcelona, Spain). Master student: Inmaculada Carmona Hernández. Dissertation: '*Analysis of the human skeletal remains unearthed in the archaeological excavation of Cal Guardiola, Argentona*'. Supervisors: Malgosa A., **Fiorin E.** Academic Year: 2012/2013
- 2012** Class on human evolution (2 hours) organised by the Autonomous University of Barcelona for the upper-school of Garbí d'Esplugues de Llobregat (Spain). 17/03/2012

Organisation of International conferences

- 2012** Organization and assistance at the 'VII Course of Paleopathology' in Santa Maria de Besora (Catalonia, Spain). Organised by: GROB (osteological research group). September 2012
- 2011** Organization and assistance at the 'XI National Meeting of Palaeopathology' Andorra La Vella (Andorra). Organised by: GROB (osteological research group). From 15/09/2011 to 17/09/2011

Prizes and Awards

- 2019** **H2020-MSCA-IF-2018. Horizon 2020 - Marie Skłodowska-Curie Actions Individual Fellowships 2018**, project title: 'Medical treatments in medieval leprosaria. Exploring healing remedies through dental calculus analysis'. Department of Oral and Maxillo Facial Sciences, Sapienza University, Rome. Supervisor: Prof. Emanuela Cristiani.
- 2015** Prize "Simon Virgili" of the best research article '*Study of dental occlusion in ancient human remains: a methodological approach*' funded by the Catalan Society of Odontology and Stomatology (Barcelona, Spain). 22/04/2015
- 2015** Winner of a grant funded by the Fondazione Centro Italiano di Studi sull'Alto Medioevo for the LXIII International week of study, 'L'Alimentazione nell'Alto Medioevo Pratiche, Simboli ed Ideologie' (Spoleto, Italy). From 9/04/2015 to 14/04/2015
- 2012** Prize of the best M.A. thesis funded by the Province of Pordenone (Italy). 8/10/2012
- 2009** Winner of the Exchange Program Scholarship (Erasmus) at the University of Seville funded by the University of Padua. From 09/09/2008 to 08/07/2009

Professional membership

- 2017/present** British Association for Biological Anthropology and Osteoarchaeology (BABAO) (<http://www.babao.org.uk/>)
- 2014/present** Research Group in Biological Anthropology (GREAB) funded by Generalitat de Catalunya (<http://grupsderecerca.uab.cat/greab/>)
- 2011/present** Group of Investigation in Osteobiography (GROB) at the Biological Anthropology Unit, Autonomous University of Barcelona, Spain. (<http://grupsderecerca.uab.cat/grob/en>)

Reviewing for International Journals

- Journal of Archaeological Science – Reports

Conferences and workshops

- 2019** Bickle P, **Fiorin E**, Arbogast RM, Craig O, Denaire A, Lefranc P, Pike A, Radini A. Counter Culture: Investigating diversity in Neolithic diet, *1st Conference on the Early Neolithic of Europe* – ENE2019, 6-8 November, Barcelona (Spain). (Oral presentation)
- 2017** Herrero M, **Fiorin E**, Malgosa A. 2017. Análisis microscópico de micro-restos presentes en el **cálculo dental** de la necrópolis altomedieval de Cal Guardiola (Argentona, Barcelona), *XX Congreso De La Sociedad Española De Antropología Física*, 12-14 July Barcelona (Spain). (poster presentation)
- 2012** “Bioarchaeology: landscape, diet, economy, rituals and ecology”. Permanent training course Barcelona (Spain). Funded by: AD’AC (Archaeologists Association of Catalonia).
- 2011** Mazzucchi A, Canci A, Marinato M, **Fiorin E**, Chavarria A, Breda A, Cattaneo C. 2011 Paleopathological analysis of the Early Middle Age in Northern Italy: a first preliminary survey, *38th Annual meeting (North America) of the Palaeopathology Association*, Minneapolis (Minnesota), 11-13 April. (poster presentation)
- 2011** Exhibition panels of the anthropological study of the Necropolis of Villa Badia, Leno (Brescia, Italy). Funded by: Fondazione Dominato Leonense. June 2011
- 2010** **Fiorin E**, Canci A. 2010. Paleopathology of early medieval human remains from the church of San Pietro in Mavinas in Sirmione, Lake Garda, Italy, *18th European Meeting of the Paleopathology association*, Vienna (Austria), 23-26 August. (Poster presentation)
- 2010** Course of ‘Funerary Archaeology and Field Anthropology’ in Rome (Italy). Funded by: L’École Française de Rome e la Soprintendenza Speciale per i Beni Archeologici di Roma.
- 2009** Participation to JIA 2009 (II Jornadas de Jóvenes en Investigación Arqueológica). Madrid (Spain), 6-8 May

Febbraio 2020

Elena Fiorin