

CURRICULUM VITAE

Filippo Bertozzo Ph.D. M.Sci. B.Sci.

Researcher, Operational Directorate Earth and History of Life, Royal Belgian Institute of Natural Sciences, Brussels, Belgium.

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Personal Details

Date of birth: 5th July 1990

Nationality: Italian

Passport: YB9215148

Languages: Italian (native), English (excellent)

International experiences: Germany, Northern Ireland, Spain, Portugal, Poland, Russia, United States, Canada, Niger

Education and employment

01/07/2021-01/09/2023	BELSPO BRAIN-be Postdoctoral fellow for the “Iguanodon 2.0” digital project at the Royal Belgian Institute of Natural Sciences, Brussels, Belgium;
10/01/2018-30/06/2021	PhD Degree in Dinosaur Palaeopathology, with the thesis “Disease in the Cretaceous – A comparative study of Iguanodon and Hadrosaur palaeopathologies” at Queen’s University Belfast;
01/09/2013-30/09/2015	MSc Degree in Organismic Biology, Evolution and Paleobiology Master Program, Universitaet Bonn, with the thesis “Histological detection of postcranial skeletal pneumaticity in Sauropodomorpha: Implications for the evolution of the dinosaurian respiratory system”, with final score of 1.3;
10/09/2009-12/10/2012	BSc degree in Natural Science, Università di Scienze, Bologna, Italy, with the thesis "Ouranosaurus nigeriensis (Ornithischia, Ornithopoda) esposto al Museo di Storia Naturale di Venezia: storia del reperto e revisione anatomica", with final score of 110/110 summa cum laude.

Grants and awards

2024	Lapworth Museum of Geology Travel Grant - 250£
2021-2023	Belspo-Brain Postdoc project – 230.773€ (obtained by RBINS and provided to different researchers);
2021	Queen’s University Poster Prize - 100£;
2019	Queen’s University Sir Thomas Dixon Travel Grant - 600£;
2019	Dinosaur Research Institute Research Grant - 1500 CAN;
2018	The Palaeontological Association Travel Grant - 50£;
2018	Queen’s University Belfast Sarah Montgomery Travel Grant - 650£;

2018 Dinosaur Research Institute Research Grant - 1000 CAN;
2018-2021 SPaRK PhD Program, Marie-Curie Horizon 2020 - about 27.000€;
2016-2017 OZR-1 year mandate, VUB Brussels.

Key Peer-Reviewed Publications

Filippo Bertozzo, Fabio Marco Dalla Vecchia & Matteo Fabbri. 2017a. The Venice Specimen of *Ouranosaurus nigeriensis* (Dinosauria, Ornithopoda). *PeerJ* 5:e3403 <https://doi.org/10.7717/peerj.3403>

Filippo Bertozzo, Niu Kecheng, Nathan Vallée Gillette and Pascal Godefroit. *In press*. Anatomical description and digital reconstruction of the skull of *Jeholosaurus shangyuanensis* (Dinosauria, Ornithopoda) from China. *Plos One*.

Filippo Bertozzo, Fabio Manucci, Matthew Dempsey, Darren H. Tanke, David C. Evans, Alastair Ruffell & Eileen Murphy. 2021. Description and etiology of paleopathological lesions in the type specimen of *Parasaurolophus walkeri* (Dinosauria: Hadrosauridae), and reconstruction of the nuchal ligament. *Journal of Anatomy*.
<https://doi.org/10.1111/joa.13363>

Filippo Bertozzo, Ivan Bolotsky, Yuri Bolotsky, Alexey Poberezhskiy, Alastair Ruffell, Pascal Godefroit, & Eileen Murphy. 2022. A pathological ulna of *Amurosaurus riabinini* from the Upper Cretaceous of Far Eastern Russia. *Historical Biology*, 1-8. <https://doi.org/10.1080/08912963.2022.2034805>

Filippo Bertozzo, Cristiano Dal Sasso, Matteo Fabbri, Fabio Manucci & Simone Maganuco. 2017b. Redescription of a remarkably large *Gryposaurus notabilis* (Dinosauria: Hadrosauridae) from Alberta, Canada. *Memorie della Società Italiana di Scienze Naturali e del Museo Civico di Storia Naturale di Milano*.

Additional Peer-reviewed Publications

Matteo Belvedere, **Filippo Bertozzo**, G. Botfalvai and Luca Pandolfi. *In press*. First evidence of ichnopathologies in *Rhinoceripeda tasnadyi* tracks from the Miocene of Hungary. *Geobios*.

Mattia A. Baiano, Ignacio A. Cerda, **Filippo Bertozzo** and Diego Pol. 2024. New information on paleopathologies in non-avian theropod dinosaurs: a case of study on South American Abelisaurids. In: Pittman, M. and Wang, Y. (eds) "Paleoecology of extinct species". *BMC Ecology and Evolution* 24, 6. <https://doi.org/10.1186/s12862-023-02187-x>

Filippo Bertozzo, Koen Stein, Elena Varotto, Francesco M. Galassi, Alastair Ruffell, and Eileen Murphy. 2024. Histological Analysis of a Traumatic Injury in an Iguanodontian Femur from England: Aetiology and Ecological Significance. *Journal of Anatomy*, 00, 1-11. <https://doi.org/10.1111/joa.14053>

Filippo Maria Rotatori, Mattia Quaranta, Mattia, **Filippo Bertozzo**, Tom Hubner, Bruno Camilo Silva, Octávio Mateus, and Miguel Moreno-Azanza. 2023. Extreme vascularization in the dentary of a basal iguanodontian dinosaur. *Historical Biology*. <https://doi.org/10.1080/08912963.2023.2238727>

Filippo Bertozzo, Bruno Camilo da Silva, David Martill, Elsa Marlene Vorderwuelbecke, Tito Aureliano, Remmert Schouten, & Pedro Aquino. 2021. A large pterosaur femur from the Upper Jurassic (Lusitanian Basin) of Portugal. *Acta Paleontologica Polonica*. <https://doi.org/10.4202/app.00858.2020>

Lambertz Markus, **Filippo Bertozzo**, & Martin P. Sander. 2018. Bone histological correlates for air sacs and their implications for understanding the origin of the dinosaurian respiratory system. *Biology letters*, 14(1), 20170514. <https://doi.org/10.1098/rsbl.2017.0514>

Filippo Bertozzo, Barbara Favaretto, Mauro Bon & Fabio Marco Dalla Vecchia. 2013. Il paratipo di *Ouranosaurus nigeriensis* Taquet, 1976 (Ornithischia, Ornithopoda) esposto al Museo di Storia Naturale di Venezia: storia del reperto e prospettive per studi di dettaglio. *Bollettino del Museo di Storia Naturale di Venezia* 64: 119-130.

Books

Bruce M. Rothschild, Dawid Surnik and **Filippo Bertozzo**. 2023. Modern Paleopathology, The Study of Diagnostic Approach to Ancient Diseases, their Pathology and Epidemiology. *Springer*. <https://doi.org/10.1007/978-3-031-28624-7>

Submitted Publications

Koen Stein, Tom Hübner, **Filippo Bertozzo**, Niels de Winter, Christophe Snoeck, Kévin Rey, Philippe Claeys and Pascal Godefroit. *In rev.* Life history and paleoecology of Early Cretaceous Belgian and German Iguanodon populations, with notes on preservation. *Plos One*.

Bertozzo Filippo, Darren H. Tanke, Simone Conti, Fabio Manucci, Gareth Arnott, Denver Fowler, Elizabeth Freedman-Fowler, Pascal Godefroit, Ivan Bolotsky, Yuri Bolotsky, Alastair Ruffell and Eileen Murphy. *In rev.* A new way to infer sex in hadrosaurid dinosaurs revealed by mating injuries. *iScience*.

Filippo Maria Rotatori, Fernando Escaso, Bruno Camilo Silva, **Filippo Bertozzo**, Elisabete Malafaia, Octávio Mateus, Pedro Mocho, Francisco Ortega, and Miguel Moreno-Azanza. *In rev.* A new Iberian iguanodontian (Ornithischia: Ornithopoda) dinosaur: a large-sized ankylopollexian from the Late Jurassic of Portugal. *Journal of Systematic Palaeontology*.

Invited talks and lectures

- 11/03/2024 “Evolution and Paleobiology of Ornithopoda”, Vrije Universiteit Brussel
- 30/11/2023 “Anche i dinosauri soffrivano: diagnosi, casi e pattern paleopatologici per ricostruire la loro antica vita”, University of Catania
- 10/24/2023 “Hadrosauridae nel Cretaceo Superiore: pattern ecologici ancora da svelare”, MSc course at Università di Firenze (Natural Sciences) - B018905 (B093)
- 10/03/2023 “Evolution and Paleobiology of Ornithopoda”, Vrije Universiteit Brussel
- 03/03/2023 “Evolution and Paleobiology of Ornithopoda” MSc course at Antwerp University (Biology) - CDE.B.032 2200WETVEP
- 28/11/2022 “Pain of the Past: what paleopathology can teach us about dinosaur biology and behaviour” MSc course at Utrecht University (Geosciences) - GEO4-1415B
- 24/04/2021 “Pathologies Out of Time – Fossilised lesions in hadrosaurs and their significance”, online lecture for the Philip J. Currie Dinosaur Museum, Canada
- 24/11/2020 “Ornithopod palaeobiology”, Msc course at University of Rome, Italy
- 10/11/2019 “Ornithopod palaeopathology”, OEP Master at the Universitaet Bonn, Germany
- 25/06/2019 “Palaeopathologies in Hadrosaurid dinosaurs from Russia”, lecture to the local geological society in Blagoveschensk, Far Eastern Russia
- 25/02/2019 “Dinosaur Biology”, BSc course “Dynamic Earth” at Queen’s University Belfast, UK
- 04/11/2015 “Evolution and Paleobiology of Sauropods”, BSc course at University of Bologna, Italy

Conference Abstracts

Filippo Bertozzo, Christophe Mallet, Melanie A.D. During, Valenting Fischer and Pascal Godefroit. 2023. Morphology of the skull of *Mantellisaurus atherfieldensis* (Dinosauria, Ornithopoda) from the Bernissart Sinkhole, Belgium. 20th Meeting of the European Association of Vertebrate Paleontologist, Sabadell, Spain.

Filippo Bertozzo, Koen H. Stein, Elena Varotto, Alastair Ruffell, and Eileen Murphy. 2022. A Pathological Femur of An Iguanodontian Dinosaur with Medullary-Like Bone involvement in the Healing Process. Meeting of the Society of Vertebrate Paleontology, Toronto.

Filippo Bertozzo, Ivan Bolotsky, Yuri Bolotsky, A. Poberezhskiy, Alastair Ruffell, Pascal Godefroit and Eileen Murphy. 2021. The limping hadrosaur from the Far East. Online Meeting of the European Association of Vertebrate Paleontologist, IT.

Filippo Bertozzo. 2020. A Tail Tale: Injuries In Caudal Neural Spines Of Hadrosauridae Revealed By An Extensive Paleopathological Revision Of Ornithopoda. Meeting of the Society of Vertebrate Paleontology, US

Filippo Bertozzo, Alastair Ruffell, and Eileen Murphy. 2020. Frequency, distribution and implications of palaeopathologies in ornithopod dinosaurs. Progressive Palaeontology, UK.

Fabio Manucci, **Filippo Bertozzo**, Simone Maganuco and Pascal Godefroit. 2019. Old Iguanodon remains shed new light on the evolution of ornithopod integument. European Association of Vertebrate Paleontology Meeting, Bruxelles, Belgium

Filippo Bertozzo, Darren H. Tanke, Alastair Ruffell, Pascal Godefroit and Eileen Murphy. 2019. A comparison of paleopathological lesions and diseases between Early and Late Cretaceous Ornithopod dinosaurs. Cretaceous & Beyond: Paleontology of the Western Interior Conference, Dickinson, North Dakota, US.

Filippo Bertozzo, Eileen Murphy, Alastair Ruffell and Pascal Godefroit. 2019. Palaeopathology of *Iguanodon* specimens from museums in Belgium and Britain, and a comparison with pathological rates in Hadrosauridae. European Association of Vertebrate Paleontology Meeting, Bruxelles, Belgium.

Filippo Bertozzo, Alastair Ruffel, and Eileen Murphy. 2018. A “traumatic” summation of pathological rates in ornithopoda (Dinosauria). The Palaeontological Association Meeting, Bristol, 2018.

Filippo Bertozzo, Koen Stein, Fabio Manucci, Pascal Godefroit, and Philippe Claeys. 2017. Anatomy, life-history and phylogeny of an exceptionally preserved hadrosaur from the Judith River Formation of Montana (USA). European Association of Vertebrate Paleontology Meeting, Munich, Germany.

Filippo Bertozzo, Koen Stein, Pascal Godefroit & Philippe Claeys. 2017. The Mummy Returns: “Laura”, an exceptionally preserved hadrosaurid mummy from Montana (USA), with remarks on the fossilized integument. Society of Vertebrate Paleontology, 77th Meeting, Calgary 2017.

Filippo Bertozzo, Markus Lambertz, and Martin P. Sander. 2015. Can we predict the presence of the air sacs in the postcranial skeleton of dinosaurs using histological analysis? Society of Vertebrate Paleontology Meeting, Dallas, Texas;

Filippo Bertozzo & Martin P. Sander. 2015. Histological analysis of postcranial skeletal pneumaticity in sauropods. European Association of Vertebrate Paleontology Meeting, Opole, Poland.

Filippo Bertozzo & Martin P. Sander. 2015. Histologically detecting postcranial pneumaticity in Sauropodomorpha: implications for the evolution of the dinosaurian respiratory system. 3rd International Symposium on Paleohistology, Bonn, Germany.

Filippo Bertozzo, Maganuco Simone, Fabbri Matteo & Dal Sasso Cristiano. 2014. The nearly complete skeleton of the hadrosaur *Gryposaurus notabilis* at the Museo di Storia Naturale di Milano: redescription and new investigation in the centennial of the species. Society of Vertebrate Paleontology, 75th Meeting, Berlin 2014.

Filippo Bertozzo, Fabbri Matteo & Dalla Vecchia Fabio Marco. 2014. The Venice Specimen of *Ouranosaurus nigeriensis* (Ornithischia, Ornithopoda). European Association of Vertebrate Paleontologists, XII Annual Meeting, Torino - Italy, 24-28 June 2014.

Scientific Journals and Society Roles

European Association of Vertebrate Paleontologists: Board Member (2024-ongoing), Communication Officer (2021-2024)

Reviewer for Nature Communication, Zitteliana, Historical Biology, Zoological Journal of the Linnean Society, The Anatomical Record, Plos One, Cretaceous Research, Acta Palaeontologica Polonica, Rendiconti Online della Societa' Geologica Italiana.

Field Experience

28/08/2022 – 29/10/2022	Niger Expedition in Gadoufaoua and Irhazer Plains, organized by Dr. Paul Sereno of the University of Chicago
04/07/2022 – 01/09/2022	Jurassic Morrison Formation in Wyoming (USA), with Dr. Pascal Godefroit (Royal Belgian Institute of Natural Sciences)
01/09/2019 – 30/09/2019	Lourinha Formation, Santa Cruz de Torres Vedras, Portugal, with Bruno Camillo Silva and the Sociedade de Historia Natural fieldcrew

15/07/2019 – 19/07/2019	Dinosaur Park Formation, Alberta, Canada, with Dr. Caleb Brown and the Royal Tyrrell Museum fieldcrew
01/08/2017 – 15/08/2017	Jurassic Morrison Formation in Wyoming (USA), with Dr. Pascal Godefroit (Royal Belgian Institute of Natural Sciences)
09/08/2015 – 30/08/2015	Augusta Mountain of Nevada (USA), with Prof. Martin Sander (University of Bonn, Germany), funded by National Geographic
01/07/2011 – 20/07/2011	Late Cretaceous in Isona (Spain), with the Institut Català de Paleontologia Miquel Crusafont (ICP)
26/06/2010 - 31/07/2010	Late Cretaceous in Isona (Spain), with the Institut Català de Paleontologia Miquel Crusafont (ICP)

Organization of scientific meetings

06/07/2021	Online Palaeoart Exhibition and Roundtable Discussion at the Meeting of the European Association of Vertebrate Paleontologists (Italy);
14/06/2021	Online Palaeoart Exhibition and presentation at the Palaeontologist in Progress - Paleodays of the Società Paleontologica Italiana (Italy);
03/07/2019 – 06/07/2019	Palaeoart Exhibition and Roundtable Discussion at the Meeting of the European Association of Vertebrate Paleontologists, Bruxelles (Belgium);
03/07/2019 – 06/07/2019	Student Committee Member of the Meeting of the European Association of Vertebrate Paleontologists, Bruxelles (Belgium);
02/07/2015 – 05/07/2015	Committee Member of the III ^o International Symposium on Paleohistology in Bonn (Germany).

Exhibitions and museum activities

2015	Organization and management of the exhibition “Hollywoods künstliche Dinosaurier - Labor und Leinwand” at the Goldfuss Museum, Bonn (Germany).
2012	Guide at the exhibition "Dinosauri in Carne ed Ossa - L'Era Glaciale è qui", Marcon (VE).
2011	Organization and management of the paleoart exhibition "Tempo Profondo: Incontro tra arte e scienza" ("Deep Time: meeting between art and science") with the collaboration of APPI.
2006-2015	volunteer at the Museo Civico dei Fossili "D. Dal Lago", Valdagno (IT); from November 2009 to June 2014, I was the president of the museum committee.
2011-2015	Guide and volunteer at the paleontological exhibition “Dinosauri in Carne ed Ossa” of Simone Maganuco and Stefania Nosotti (Museo di Storia Naturale di Milano).

Personal skills and competence

- **Languages:** fluent Italian (native) and English (2013 TOEFL Certificate C1, International MSc in Germany, International experience as researcher in Bruxelles, PhD program in the United Kingdom, international postdoc). Brief notions of French, German and Spanish.
- **Social skills and competences:** good ability to interact with people, even in multicultural framework; I am of open character who can converse polite and respectful. I have a good critical sense, thanks to travels abroad and experiences I had. The experience travelling around the world, and the several international meetings I am actively attending, gave me the capacity to speak clearly in a scientific environment. Trained in leadership skills and

team-building/team-managing via the workshops organized by the SPaRK Cohort at Queen's University Belfast.

- **Technical skills and competences:** good knowledge in dissection of tetrapods (amphibians, sauropsids [turtles, iguanas, snakes, birds]) with emphasis in the skeletal, muscular and respiratory systems; good knowledge in preparing (paleo)histological sections of fossil tetrapods, from drilling cores to staining samples for petrographic microscope. Extensive experience in paleontological fieldwork, from prospection to plaster-jacketing specimens, and basics of lab preparation and restoration of fossil specimens.
- **Computer skills and competences:** Experience in using MS Office (Word, Excel, Powerpoint, Outlook), internet and email. Good experience in photography (Sony/Canon cameras), photo-editing (Photoshop), photogrammetry (Agisoft Photoscan and Metashape, Reality Capture) and 3D modelling (Blender); bases of phylogeny and cladistic (TNT, Mesquite), bases of R statistics, video-editing and rendering (daVinci Resolve); CTdata analysis and post-processing (Avizo), surface scanning (Artec), and bases of Finite Element Analysis (Abaqus, Autodesk Inventor).

Extra-academic activities

- Panellist at Game Convention ModenaPlay (Italy) for a seminar on Creature Design and Bestiary;
- Scientific advisor for the indie videogame DinoPathTrailer;
- Writer for the web group of nientedadire.com
- Storyboarder and scientific advisor for a dinosaur-themed comic by renowned artist Lewis Larosa for BadIdea Edition;
- Virtual scicommer on dinosaur paleontology in numerous web platforms.