

João Pedro Silva Kirmse

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j.kirmse@lrz.uni-muenchen.de

Richard-Wagner-Straße 10, 80333 Munich, Germany

+49 (0) 1523 695 4170

Education

Ludwig-Maximilians-Universität München , Candidate for Doctor of Philosophy	August 2022 - <i>ongoing</i>
University of São Paulo , Master of Science	July 2018 – March 2021
University of Bristol , Visiting M.Sc. Student	August 2019 – January 2020
University of Alberta , Visiting Student, Science without Borders	September 2015 – July 2016
University of Brasilia , Bachelor in Biological Sciences	April 2013 – June 2017
University of Brasilia , Licentiate (Teaching Degree) in Biological Sciences	April 2013 – June 2018

Publications

Kirmse, J. P. S., Benton, M. J., Hildebrandt, C., Langer, M. C., & Marsola, J. C. (2023). A Coelophysoidea (Dinosauria, Theropoda) femur from the Tytherington fissures (Rhaetian, Late Triassic), Bristol, UK. *Proceedings of the Geologists' Association*, 134(5-6), 562-572. <https://doi.org/10.1016/j.pgeola.2023.07.005>

Academic Experience

Scientific Assistant, Mesozoic Tetrapods Research Group at the Ludwig-Maximilians-Universität München and Bayerische Staatssammlung für Paläontologie und Geologie, supervised by Dr. Oliver W. M. Rauhut. August 2022 – *ongoing*

Funded by Deutsche Forschungsgemeinschaft (DFG) project number 498194151 awarded to Dr. Rauhut

- Redescription of the early Theropods *Liliensternus liliensterni*, *Procompsognathus triassicus*, and *Dracoraptor hannigani*
- Description of new Theropod material from the Triassic of Germany
- Review of problematic theropod fossil material from the European Triassic
- Collaboration on the construction of a large character matrix of Mesozoic Theropods

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- Further morphological character construction and description and scoring of morphological features
- Interpretation of CT-scan data
- Creation of character matrices and updates to published ones
- Analysis of morphological evolution hypotheses
- Visits to various collections around the world for comparative studies
- Fieldwork in Argentinian Formations
- Further experience in relevant software, such as Mesquite, TNT, MrBayes, R, Avizo, Adobe Photoshop, Adobe Lightroom, and Adobe Illustrator

Master of Science, Palaeontology Laboratory at the University of São Paulo, Supervised by Dr. Max C. Langer July 2018 – March 2021

- Assessment of the Morphological Support for Ornithoscelida Huxley, 1870
- Description and scoring of morphological features in early dinosaurs
- Construction for morphological characters
- Analyses of state distribution within a lineage
- Scrutiny and comparison of morphological features and homology hypotheses
- Fieldwork in diverse South American Formations
- Visits to collections in South America and Europe.
- Taking pictures of relevant features and preparing them for publication
- Use of further relevant software such as R, MrBayes, Mesquite, PAUP, TNT, Figtree, Adobe Photoshop, and Adobe Illustrator.

Visiting M.Sc. Student, Macroevolution Laboratory at the University of Bristol, Supervised by Dr. Michael J. Benton August 2019 – January 2020

- Complement of activities taking course at Dr. Langer's laboratory
- Training in Bayesian phylogenetic analyses and its interpretation
- Visits to collections in the United Kingdom, Germany, Switzerland, and Poland
- Training in Ancestral Character Reconstruction and Evolutionary rates analyses in R

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Field and Preparation Intern, Dinosaur Laboratory at the University of Alberta, Supervised by Dr. Philip J. Currie April 2016 – July 2016

- Preparation of macrovertebrate fossils with tools such as air scribes, chisels, and simple brushes.
- Intensive field experience, with a total of 53 days spent in the field during the season
- Ability to carefully excavate and remove vertebrate fossils
- Training in jacketing specimens with plaster and transporting them over long distances
- Field identification of recently exposed specimens
- Training in field cataloguing and management
- Prospecting over vast areas in addition to quarry work

Research Assistant, Laboratory of Vertebrate Palaeontology at the University of Brasilia, Supervised by Dr. Rodrigo Santucci March 2015 – August 2015
August 2016 – June 2018

- Preparation of macrovertebrate fossils with tools such as air scribes, chisels, and simple brushes.
- Techniques on curating fossils, such of storage inside plastic boxes and inert folders and cataloguing of specimens
- Identification and description sauropod and ancient crocodile fossils
- Study and comparison of paleontological sources, such as textbooks and original papers
- Analysis of character matrices and phylogenetic trees
- Usage of Systematics softwares such as PAUP, NDE, and FigTree
- Comparison of different phylogenies to elucidate character history and disparity in topologies

Research Assistant, Laboratory of Evolutionary Biology at the University of Brasilia, Supervised by Dr. Rosana Tidon August 2013 – December 2014

- Identification and description of *Drosophila* species based on morphological characters.
- Comparison of characters for phylogenetic analysis
- Analysis of phylogenetic trees and systematic data
- Analysis specimens through a stereomicroscope for character discrimination
- Capture of scientific photographs used for arthropod taxonomic description

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- Study of taxonomy, systematics and evolutionary biology works
- Composition of a scientific report that described the works done in the laboratory and the results of those works

Scholarships and Awards

Jovens Talentos para a Ciência (Young Scientific Talents) Scholarship: program with a competitive selection process created to prepare students for their science without borders scholarship	August 2013 – August 2014
Ciências sem Fronteiras (Science Without Borders) Scholarship Program: Government program with a selection process that includes two terms and an internship in a foreign university, spent at the University of Alberta	September 2015 – July 2016
Coordination for the Improvement of Higher Education Personnel (CAPES) M.Sc. Scholarship São Paulo Research Foundation (FAPESP) M.Sc. Scholarship	July 2018 – December 2018
São Paulo Research Foundation (FAPESP) Research Internship Abroad (BEPE) Scholarship: Program with project-based selective process that awards the student to spend six months working in their project abroad, to be spent at the University of Bristol, UK.	January 2019 – December 2020
São Paulo Research Foundation (FAPESP) Research Internship Abroad (BEPE) Scholarship: Program with project-based selective process that awards the student to spend six months working in their project abroad, to be spent at the University of Bristol, UK.	August 2019 – January 2020
Jackson School of Geosciences SVP Student Member Travel Grant	October 2019

Congresses and Symposia

University of Alberta Palaeontological Society's Biennial Symposium	February 2016
XXV Brazilian Palaeontological Congress	July 2017
2nd Symposium on Comparative Biology <ul style="list-style-type: none">• Poster Presentation: <i>Morphological Support of Ornithoscelida Huxley, 1870</i>	November 2018
PALEO SP 2018 <ul style="list-style-type: none">• Oral Presentation: <i>Effects of Missing Data on Phylogenetic Reconstructions</i>	November 2018
79th Society of Vertebrate Palaeontology Annual Meeting <ul style="list-style-type: none">• Oral Presentation: <i>Observations on the Morphological Support of Ornithoscelida Huxley, 1870</i>	October 2019
XXVI Brazilian Palaeontological Congress	October 2019

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- Poster presentation: *Observations on the Morphological Support of Ornithoscelida Huxley, 1870*
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PALEO SP 2023

December 2023

XXI Annual Meeting of the European Association of Vertebrate Palaeontologists

August 2024

- Oral presentation: *The Largest Triassic Neotheropod*
-

84th Society of Vertebrate Paleontology Annual Meeting

October 2024

- Oral Presentation: *The Largest Triassic Neotheropod and the Early Evolution of Averostra*
-

XXII Annual Meeting of the European Association of Vertebrate Palaeontologists

June 2025

- Oral Presentation: *Early Theropods from Europe and the Classification of Non-averostran Dinosaurs*

Organization of Events

IX Comparative Biology Meeting, USP/Ribeirão Preto, Scientific Committee July 2019

III Workshop on the Teaching of Comparative Biology, USP/Ribeirão Preto July 2019

Courses Given

Evolution and Palaeobiology of Dinosaurs: Overview and Special Topics, with Gabriel Mestriner: one-day course with an overview of dinosaur studies, with the major clades, history, macroevolutionary trends, and future perspectives July 2019

Volunteer Experience

Biology Teacher, Galt Vestibulares

February 2017 – June 2018

- Ability to prepare and organise classes and slide presentations
- Teaching of high-school level biology for a free preparation course for universities' admission exams, to attend those who can't pay for a private course
- Creation of questions and organisation of exams
- Tutorship experience

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Science Communication Publications

Kirmse, J., Neto, F., & Darlim, G. (2019) Dinossauro do Paraná. *Ciência Hoje das Crianças*. <http://chc.org.br/artigo/dinossauro-do-parana/>

Kirmse, J. 2019, August 20. Novo fóssil dá pistas sobre como o voo surgiu nos dinossauros. *Ilha do conhecimento*. Retrieved from: <http://ilhadoconhecimento.com.br/novo-fossil-da-pistas-sobre-como-o-voo-surgiu-nos-dinossauros/>

Silva, A. 2020, September 24. A Nova Animação do Jurassic Park na Netflix, e os Dinossauros que existiram no Brasil. *Portal do Futuro*. Retrieved from: <https://portaldofuturo.com/a-nova-animacao-do-jurassic-park-na-netflix-e-os-dinossauros-que-existiram-no-brasil/> : Interview on early dinosaurs with Mr. Kirmse

Teaching Experience

Middle School: 60 hours internship

May 2017 – June 2017

High School: 60 hours internship

September 2017 – November 2017

Biology Teacher, Direto Aprovações

February 2018 – June 2018

- Teaching of high-school level biology for a paid preparation course for universities' admission exams.
- Payment per hour of class given and by questions elaborated
- Experience similar to that at *Galt vestibulares*

Fieldwork Experience

Danek Bonebed, Horseshoe Canyon Formation, April – May 2016
Canada

Leaders: Dr. Philip Currie and Dr. Eva Koppelhus

Dinosaur Provincial Park, Dinosaur Park and Oldman Formations, Canada May – June 2016

Leaders: Dr. Philip Currie and Dr. Eva Koppelhus

Muylichinco Formation, Argentina

November 2016

Leader: Dr. Rodolfo Coria

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Paraná Basin; Botucatu Formation and Bauru Group, Brazil	October 2017
Leader: Dr. Rodrigo Santucci	
Bauru Group; Adamantina and Caiuá Formations, Brazil	January 2019
Leader: Dr. Gabriel Ferreira	
Santa Maria Group; Santa Maria and Caturrita Formations, Brazil	March 2019
Leaders: Dr. Max Langer and Dr. Átila da Rosa	
Agua de la Peña Group; Ischigualasto, Los Colorados, Los Rastros, and Chañares Formations, Argentina	April 2019
Leaders: Dr. Max Langer and Dr. Julia Desojo	
Cañadón Asfalto Basin; Cañadón Calcáreo and Cañadón Asfalto Formations, Argentina	October – November 2023
Leaders: Dr. Oliver Rauhut, Dr. Jose Carballido, Mr. Pablo Puerta	

Collections Visited

Federal University of Rio Grande do Sul, Porto Alegre, Brazil	February 2019 December 2023
Zoobotanical Foundation of Rio Grande do Sul, Porto Alegre, Brazil	February 2019
Lutheran University of Brazil, Canoas, Brazil	February 2019
Pontifical Catholic University of Rio Grande do Sul, Porto Alegre, Brazil	February 2019
Federal University of Santa Maria, Santa Maria, Brazil	February 2019
Centre of Support for Palaeontological Research, São João do Polêsine, Brazil	February 2019 December 2023
National Museum of Natural History Bernardino Rivadavia, Buenos Aires, Argentina	March 2019 November 2023
Miguel Lillo Institute, San Miguel de Tucumán, Argentina	March 2019 November 2023
National University of San Juan, San Juan, Argentina	March 2019 November 2023
National University of La Rioja, Rioja, Argentina	April 2019 November 2023
National Museum Cardiff, Cardiff, UK	September 2019
Bristol Museum and Art Gallery, Bristol, UK	September 2019
Natural History Museum, London, UK	September 2019

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Staatliches Museum für Naturkunde , Stuttgart, Germany	October 2019
Sauriermuseum , Frick, Switzerland	November 2019 August 2023
Museum für Naturkunde , Berlin, Germany	November 2019 January 2023 February 2025
Universität Greifswald , Greifswald, Germany	November 2019
Polska Akademia Nauk , Warsaw, Poland	November 2019
Paläontologisches Institut und Museum der Universität Zürich , Zürich, Switzerland	July 2023
Université de Caen Normandie , Caen, France	August 2023
Museo Paleontológico Egidio Feruglio , Trelew, Argentina	October 2023
University of Texas at Austin , Austin, Texas, USA	May 2024
Dinosaur National Monument , Vernal, Utah, USA	May 2024
Natural History Museum of Utah , Salt Lake City, Utah, USA	May 2024
Brigham Young University , Provo, Utah, USA	May 2024
University of Colorado Museum , Boulder, Colorado, USA	May 2024
Denver Museum of Nature and Science , Denver, Colorado, USA	May 2024
New Mexico Museum of Natural History and Science , Albuquerque, New Mexico, USA	May 2024
Museum of Northern Arizona , Flagstaff, Arizona, USA	June 2024
University of California Museum of Paleontology , Berkeley, California, USA	June 2024
Carnegie Museum of Natural History , Pittsburgh, Pennsylvania, USA	November 2024
Stony Brook University , Stony Brook, New York, USA	November 2024
American Museum of Natural History , New York, New York, USA	November 2024
Museum of Comparative Zoology , Harvard University, Cambridge, Massachusetts, USA	November 2024
Virginia Tech , Blacksburg, Virginia, USA	November 2024
Field Museum of Natural History , Chicago, Illinois, USA	December 2024

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**Institute of Vertebrate Paleontology and
Paleoanthropology**, Beijing, China May 2025

Shanghai Natural History Museum, Shanghai, China May 2025

Lufeng Dinosaur Fossil Base, Lufeng, Yunnan, China May 2025

Chuxiong Prefectural Museum, Chuxiong, Yunnan, China May 2025

Language Proficiency

Language	Level
Portuguese	Native
English	Fluent – IETS Score 8.5
Spanish	Advanced
French	Advanced
German	Basic (currently studying)
Russian	Basic

Main References:

Oliver Walter Mischa Rauhut, Professor at the Ludwig-Maximilians-Universität München, Supervisor at the Mesozoic Tetrapods Research Group
Doctorate in Palaeontology by the University of Bristol (2000)
rauhut@snsb.de
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Max Cardoso Langer, Professor at the University of São Paulo, Supervisor at the Palaeontology Laboratory
Doctorate in Palaeontology by the University of Bristol (2001)
mclanger@ffclrp.usp.br
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Michael James Benton, Professor at the University of Bristol, Supervisor at the Macroevolution Laboratory
Doctorate in Geology by the University of Newcastle upon Tyne (1981)
mike.benton@bristol.ac.uk
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Philip John Currie, Professor at the University of Alberta, Supervisor at the Dinosaur Laboratory
Doctorate in Biology by McGill University (1981)
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Rodrigo Miloni Santucci, Professor at the University of Brasília, Supervisor at the Laboratory of Vertebrate Palaeontology

Doctorate in Regional Geology by São Paulo State University, UNESP (2005)

rodrigoms@unb.br

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Further References:

Rosana Tidon, Professor at the University of Brasília, Supervisor at the Laboratory of Evolutionary Biology

Doctorate in Genetics by the University of São Paulo (1992)

Post-Doctorate by Harvard University (2003)

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