

# Dr. Gustavo Darlim

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Paläontologie & Geobiologie  
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Germany

## IDENTIFICATION

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Name: Gustavo Darlim de Oliveira

Nationality: Brazil

Birth: 15.01.1996

Name appearing on publications: Darlim, G\*.; Oliveira, G.D.

\* Most used

## POSITIONS

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2023 – present      Postdoctoral researcher at Höhna Lab at Ludwig-Maximilian-Universität München (ERC MacDrive project)  
Group leader: Prof. Dr. Sebastian Höhna

## EDUCATION

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2020 – 2024      PhD in Geosciences, Eberhard Karls Universität Tübingen, Germany  
Supervisors: Dr. Márton Rabi, Prof. Hervé Bocherens

2018 – 2020      Master of Science in Comparative Biology, University of São Paulo, Brazil  
Supervisor: Prof. Max C. Langer

2014 – 2018      Bachelor's in Biology, University Santa Cecília, Brazil

## COMPLEMENTARY COURSES

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2020 [35 hours]      Morphological phylogenetics: principles, applications, and technique; Transmitting Science

2016 [15 hours]      Scientific writing, University Santa Cecília, Brazil

## GRANTS

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July 2019 – May 2020      FAPESP Master Scholarship (Fundação de Amparo à Pesquisa do Estado de São Paulo).  
Grant number: 2019/06311-4  
<https://bv.fapesp.br/en/bolsas/186362/anatomic-description-and-phylogenetic-analysis-of-a-new-specimen-of-baurusuchidae-crocodyliformes/>

## SUPPLEMENTARY CAREER INFORMATION

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June 2024 – present      Part of the **LMU Mentoring Program of the Faculty of Geoscience for excellent early career researchers** coordinated by Prof. Henrike Rau and Prof. William Orsi. “The LMU Mentoring Program is a part of the ‘Exzellenzinitiative’, whereby funds are provided to support the career development of early career researchers. This includes (but is not limited to) financial support of open access publications, travel to workshops and conferences, purchasing of scientific equipment, student assistants, and travel for field work.”  
<https://www.geo.lmu.de/de/nachwuchsfoerderung/mentoring/>

## SUPERVISION OF RESEARCHER IN EARLY CAREER PHASES

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Oct 2025 – present      **Master thesis supervision:** Dennis Hagemann  
Master’s Degree Program Geobiology and Paleobiology,  
Faculty of Geosciences, Ludwig-Maximilians-Universität  
München

“Exploring the skull shape morphology in  
Crocodyliformes”

Prof. Sebastian Höhna, Dr. Gustavo Darlim

Jan 2025 – Sep 2025      **Master thesis supervision:** Charalampos Skoulakis  
Master’s Degree Program Geobiology and Paleobiology,  
Faculty of Geosciences, Ludwig-Maximilians-Universität  
München

“Neck musculature and implications for cervical function  
and predatory behaviour in baurusuchids  
(Crocodyliformes, Notosuchia) through finite element  
analysis.”

Prof. Sebastian Höhna, Dr. Gustavo Darlim

## PUBLICATIONS

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- (1) Heckeberg, N. S., Capobianco, A., Khakurel, B., **Darlim, G.**, & Höhna, S. (2025). Practical Guide and Review of Fossil Tip-Dating in Phylogenetics. *Systematic Biology*, syaf050. <https://doi.org/10.1093/sysbio/syaf050>
- (2) **Darlim G**, Höhna S. (2025) The effects of cryptic diversity on diversification dynamics analyses in Crocodylia. *Proc. R. Soc. B* 292: 20250091 <https://doi.org/10.1098/rspb.2025.0091>
- (3) **Darlim, G.**, & Höhna, S. (2024). Mixture Models for Dating with Confidence. *bioRxiv*, 2024-09. <https://doi.org/10.1101/2024.09.25.614964>
- (4) **Darlim, G.**, Suraprasit, K., Chaimanee, Y., Tian, P., Yamee, C., Rugbumrung, M., Adulwit, A., & Rabi, M. (2023). An extinct deep-snouted Alligator species from the Quaternary of Thailand and comments on the evolution of crushing dentition in alligatorids. *Scientific Reports*, 13(1), 10406. [doi.org/10.1038/s41598-023-36559-6](https://doi.org/10.1038/s41598-023-36559-6)
- (5) **Darlim, G.**, Lee, M. S., Walter, J., & Rabi, M. (2022). The impact of molecular data on the phylogenetic position of the putative oldest crown crocodylian and the age of the clade. *Biology Letters*, 18(2), 20210603. [doi.org/10.1098/rsbl.2021.0603](https://doi.org/10.1098/rsbl.2021.0603)
- (6) Walter, J., **Darlim, G.**, Massonne, T., Aase, A., Frey, E., & Rabi, M. (2021). On the origin of Caimaninae: insights from new fossils of *Tsoabichi greenriverensis* and a review of the evidence. *Historical Biology*, 34(4), 580-595. [doi.org/10.1080/08912963.2021.1938563](https://doi.org/10.1080/08912963.2021.1938563)
- (7) **Darlim, G.**, de Souza Carvalho, I., Tavares, S. A. S., & Langer, M. C. (2021). A new Pissarrachampsinae specimen from the Bauru Basin, Brazil, adds data to the understanding of the Baurusuchidae (Mesoeucrocodylia, Notosuchia) distribution in the Late Cretaceous of South America. *Cretaceous Research*, 128, 104969. [doi.org/10.1016/j.cretres.2021.104969](https://doi.org/10.1016/j.cretres.2021.104969)
- (8) **Darlim, G.**, Monteféltro, F. C., & Langer, M. C. (2021). 3D skull modelling and description of a new baurusuchid (Crocodyliformes, Mesoeucrocodylia) from the Late Cretaceous (Bauru Basin) of Brazil. *Journal of Anatomy*, 239(3), 622-662. [doi.org/10.1111/joa.13442](https://doi.org/10.1111/joa.13442)
- (9) **Darlim, G.**, & Marinho, M. M. (2018). *Moenkhausia lepidura* (Kner, 1858) (Characiformes, Characidae): osteology and relationships. *Biota Neotropica*, 18. [doi.org/10.1590/1676-0611-BN-2018-0546](https://doi.org/10.1590/1676-0611-BN-2018-0546)
- (10) **Oliveira, G. D.**, & Marinho, M. M. (2016). A new species of *Moenkhausia* Eigenmann, 1903 (Characiformes, Characidae) from the rio Amazonas basin, Brazil. *Zootaxa*, 4093(4), 566-574. [10.11646/zootaxa.4093.4.8](https://doi.org/10.11646/zootaxa.4093.4.8)

## CONFERENCE PRESENTATIONS - TALKS

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2025 – **Darlim, G.** Bittencourt J., Marsola J., Ferreira, G., Langer, M. Reassessment of *Spondylosoma absconditum* von Huene, 1942, an enigmatic archosaur from the Middle Triassic of South Brazil.

*XXII Annual Meeting of the European Association of Vertebrate Palaeontologists (EAVP), Kraków, Poland*

2025 – **Darlim, G.** Höhna, S. Addressing cryptic diversity in crocodylian diversification dynamics analysis

*4<sup>th</sup> Crossing the Paleontological-Ecological Gap (CEG), Zurich, Switzerland*

2024 – **Darlim, G.** Höhna, S. Effects of cryptic diversity on diversification dynamics analyses in Crocodylia.

*The Palaeontological Association 68<sup>th</sup> Annual Meeting, Erlangen-Nürnberg, Germany*

2024 – **Darlim, G.** Höhna, S. Incorporation of cryptic species affects diversification dynamic analysis in Crocodylia.

*3rd Joint Congress on Evolutionary Biology, Montreal, QC, Canada.*

2022 – **Darlim G.**, Suraprasit, K., Rabi, M. A bizarre new *Alligator* species from the Quaternary of Thailand and implications on the Asian radiation of the clade.

*Annual meeting of Students in Evolution and Ecology (meeting StEvE)*

2022 – **Darlim, G.**, Rabi, M. Time-scaling of crocodylian evolution and the contribution of total evidence tip-dating analysis. Symposium “Macroevolution: using quantitative methods to understand large-scale processes in fossil vertebrate evolution”.

*19th Annual Conference of European Association of Vertebrate Palaeontologists (EAVP), Benevento, Italy.*

2021 – **Darlim, G.**, Carvalho, I.S., Tavares, S.A.S., Langer, M.C. A new *Pissarrachampsinae* specimen from the Bauru Basin, Brazil, adds data to the understating of *Baurusuchidae* (*Mesoeucrocodylia*, *Notosuchia*) distribution in the Late Cretaceous of South America.

*PaleoSP, Regional reunion of the Brazilian Society of Palaeontology (Online).*

2021 – **Darlim, G.**, Rabi, M. The impact of DNA data on the phylogenetic position of fossil ‘basal’ crocodylians.

*Annual meeting of Students in Evolution and Ecology (meeting StEvE). Online.*

2021 – **Darlim, G.**, Massonne, T., Wings, O., Rabi, M. Segmenting the evolutionary history of early crocodylians

*3rd Palaeontological Virtual Congress. Online.*

## CONFERENCE PRESENTATIONS - POSTERS

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2021 – **Darlim, G.**, Walter, J., Rabi, M. The impact of molecular scaffold on the fossil age of Crocodylia.

*18th Annual Conference of European Association of Vertebrate Palaeontologists (EAVP). Online.*

2019 – **Darlim, G.**, Montefeltro, F.C., Langer, M.C. Exploring the morphology of a baurusuchid (Upper Cretaceous, Adamantina Formation) with computed tomography.

*XXVI Brazilian Congress of Palaeontology. Uberlândia, Brazil.*

2018 – **Darlim, G.**, Montefeltro, F.C., Langer, M.C. Description and phylogenetic analysis of a new Baurusuchidae (Crocodyliformes, Mesoeucrocodylia) specimen from Adamantina Formation (Upper Cretaceous- Bauru Basin), Jales- SP.

*Second Symposium on Comparative Biology, University of São Paulo, Brazil.*

2016 – **Darlim, G.**, Marinho, M.M. Osteological description of *Moenkhausia lepidura* Kner, 1858 (Characiformes, Characidae).

*16th National Congress of Undergraduate Research Projects. Ribeirão Preto, Brazil.*

2015 – **Oliveira, G.**, Marinho, M.M. New species of *Moenkhausia* Eigenmann, 1903 (Characidae, Characiformes) from the Amazon Basin.

*15th National Congress of Undergraduate Research Projects. Guarulhos, Brazil.*

2015 – **Oliveira, G.**, Marinho, M.M. New species of *Moenkhausia* Eigenmann, 1903 (Characidae, Characiformes) from the Amazon Basin.

*XXII Brazilian Meeting of Ichthyology (EBI). Recife, Brazil.*

## ADDITIONAL MEETING ATTENDANCES (no scientific contribution)

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2021 – 9th Meeting on the Secondary Adaptation of Tetrapods to Life on Water (SECAD). (online)

2019 – PaleoSP, Regional reunion of the Brazilian Society of Palaeontology. Campinas, Brazil.

2016 – XVIII Symposium on Marine Biology, Univeridade Santa Cecília, Brazil.

2014 – 1st Postgraduation meeting of the Zoological Museum of the University of São Paulo, Brazil.

2014 – XVII Symposium on Marine Biology. Univeridade Santa Cecília, Brazil.

## INVITED TALKS

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2022 – Darlim, G. Segmenting the evolutionary history of Crocodyliformes. Paleozoology course, module: Evolution of Organisms, Eberhard Karls Universität Tübingen, Germany.

2021 – Darlim, G. The use of computed tomography in palaeontological studies. Federal University of Catalão, Brazil (online)

## ORGANIZATION COMMITTEES

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2022 – Annual Meeting of Students in Evolution and Ecology, Tübingen (meeting StEvE).

2022 – Abstract reviewer for the VII Latin-American Congress of Vertebrate Palaeontology.

2019 – IX Meeting and III workshop of Comparative Biology. University of São Paulo, Ribeirão Preto, Brazil.