



Elena Bauer

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since June 2024

Ludwig-Maximilians Universität München
PhD project

Oct 2020 - Nov 2022

Ludwig-Maximilians Universität München
MSc Geobiology & Paleobiology

Oct 2017 - Sep 2020

Goethe Universität Frankfurt
BSc Biological Sciences

Aug 2016 - Jun 2017

Elisabeth-Knipping Schule Kassel
Biological Technical Assistant

WORK EXPERIENCE

AFTER MSC

Research assistant LMU Munich, Working Group Reichenbacher Paleobiology
Nov 2022-Dec 2023, Feb-Apr 2024 Preparation of scientific publications (see publications)

DURING MSC

Research assistant LMU Munich, Working Group Reichenbacher Paleobiology
Sep-Oct 2022 segmentation and scientific drawing of μ CTs of clupeid fishes
Oct-Dec 2021, Mar-May 2022 measurements of cichlid fish scales in imagej

TEACHING

Tutor - WP21 Allgemeine Paläontologie LMU Munich
Jan-Feb 2024 Introduction to invertebrate paleontology
Tutor - P8.1 Scientific Communication LMU Munich
Apr-Sept 2022 Preparing scientific posters in Inkscape

FIELD WORK

participant JURASSICA Field School, Dilijan, Armenia
Oct 10-21 2025 Excavation and packaging of fossils

PUBLICATIONS

Bauer E., Cerwenka A., Schliewen U., Reichenbacher B. **(in print)**:
New osteological characteristics identify the first stem sleeper goby (Gobioidei, Odontobutidae) from the Upper Eocene. *Papers in Paleontology*

Bauer E., Cerwenka A., Schliewen U., Reichenbacher B. **(in print)**:
Project: New osteological characteristics identify the first stem sleeper goby (Gobioidei, Odontobutidae) from the Upper Eocene. MorphoSource <https://www.morphosource.org/projects/000642675>

Dirnberger M., **Bauer E.**, Reichenbacher B. **(2024)**:
A new freshwater gobioid from the Lower Miocene of Turkey in a significantly amended total evidence phylogenetic framework. *Journal of Systematic Paleontology*

Kevrekidis C., Moritz T., Cerwenka A., **Bauer E.**, Reichenbacher B. **(2024)**:
Uncovering the relationships between herring-like fossils (Clupei, Teleostei): a morphology based phylogenetic analysis. *Zoological Journal of the Linnean Society*



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CONFERENCE CONTRIBUTIONS

Bauer, E. & Reichenbacher, B. (2025). Widespread fossil freshwater gobies (Teleostei, Gobioidi): true distributions or wastebasket taxa? – In: Geo4Göttingen Geo4Change Earth, Life, Climate, Resources, Materials, September 14th to 18th 2025; Abstract Book, p. 36. doi.org/10.48380/65pb-zh12 (**oral presentation**).

Bauer, E. & Reichenbacher, B. (2025). Middle Miocene freshwater goby radiation and migration in the North Alpine foreland basin (Western Paratethys). – In: RCMNS interim colloquium 2025 Advances in understanding the Neogene Mediterranean-Paratethyan System (**oral presentation**).

Bauer, E., & Reichenbacher, B. (2024). The forgotten goby community of the Miocene Ries crater paleolake. – In: De Baets K. & Kaim A. (eds.) Joint Meeting of the Polish Paleobiologists and the 95th Annual Meeting of the Paläontologische Gesellschaft (PalGes), Warsaw, September 16th–21st, 2024; Abstract Book, p. 15. Instytut Paleobiologii PAN, Warszawa. doi.org/10.4202/app.01209.2024 (**oral presentation**).

Bauer, E., Simpson, M. & Reichenbacher, B. (2023). Discovery of the oldest fossil member of the Odontobutidae. – In XVII European Congress of Ichthyology 4–8 September 2023, Prague, Czech Republic, ECI-Abstract-Book, p. 95 (**oral presentation**).

Bauer, E., Simpson, M. & Reichenbacher, B. (2022). Phylogenetic placement of †*Paralates chapelcorneri* [Teleostei:Gobioidi] from the Upper Eocene using new morphological characters for the distinction of Odontobutidae and Rhyacichthyidae. – In 93. Jahrestagung der Paläontologischen Gesellschaft Sep. 19th to 23rd 2022, Stuttgart, Germany; Abstract-Book, p. 5 (**oral presentation**).

Bauer, E., Simpson, M. & Reichenbacher, B. (2022). Investigation of the enigmatic gobioid *Paralates chapelcorneri* based on new finds from the Eocene of southern England. – In 8. Rencontres de L'Ichthyologie en France, 14–18 mars 2022, Paris; Abstract book, p. 13 (**poster presentation**). **Junior Award 3rd place**

Further contributions

Bauer E., Simpson M., Reichenbacher R. (2023): Discovery of the oldest odontobutid fish. 48. Treffen Arbeitskreis Wirbeltierpaläontologie, Berlin, Germany. (**oral presentation**)

Bauer E., Simpson M., Reichenbacher R. (2022): Phylogenetic placement of †*Paralates chapelcorneri* from the Upper Eocene using new characters for the distinction of Rhyacichthyidae and Odontobutidae. 47. Treffen Arbeitskreis Wirbeltierpaläontologie, Mainz, Germany. (**oral presentation**)

ADDITIONAL EXPERIENCE

(Scientific) Illustration
 Illustration programs (Photoshop/Krita/Inkscape)
 Segmenting CTs of (fossil) skeletons ins Amira/Avizo
 Basic programming in R