

Curriculum Vitae

Armelle Ballian

Geo- and Environmental Research
Centre (GUZ)
Eberhard Karls University Tübingen
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Born on December, 18th 1995
Citizenship: French



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Education

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| since April 2021 | Senckenberg Biodiversität und Klima Forschungszentrum (BiK-F),
Frankfurt am Main (Germany)
Working group: Paleoclimate and Paleoenvironmental Dynamics
Head of group: Prof. Dr. Andreas Mulch
Ph.D. |
| 2017 - 2020 | Albert-Ludwigs-Universität,
Institute of Earth and Environmental Sciences, Freiburg im Breisgau
Master of Science , focus Geohazards |
| 2016 - 2017 | Albert-Ludwigs-Universität,
Institute of Earth and Environmental Sciences, Freiburg im Breisgau
Bachelor of Science ERASMUS |
| 2014 - 2016 | Université Jean Monnet, Saint-Étienne (France)
Bachelor of Science |

Professional Experience

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| Since April 2025 | Eberhard Karls Universität Tübingen, Tübingen (Germany)
Working group: Climatology and the Biosphere
Head of group: Prof. Dr. Kira Rehfeld
Research Scientist |
| 2020 - March 2021 | Université Jean-Monnet, Saint-Étienne (France)
Laboratoire de Géologie de Lyon (LGL)
Laboratory technician in hydrogeochemistry |
| 2018 - 2020 | Albert-Ludwigs-Universität, Freiburg im Breisgau (Germany)
Working group: Sedimentary Geology and Quaternary Research
Head of group: Prof. Dr. Frank Preusser
Research assistant (HiWi) |

Research Experience

Sept. 2024	GeoSaxonia Dresden, Germany Session chair: Interactions between mountain building, climate and biodiversity.
August 2024	9th International Clumped Isotope Workshop Stony Brook, USA
April 2024	EGU24 Vienna, Austria Abstract: http://dx.doi.org/10.5194/egusphere-egu22-234
Dec. 2023	AGU Fall Meeting 2023 San Francisco, USA
October 2023	7th Annual AlpArray & 4D-MB Scientific Meeting Bad Hofg., Austria Abstracts: http://dx.doi.org/10.17169/refubium-40986 http://dx.doi.org/10.17169/refubium-40985
July 2023	DMG Data Science Short Course 2023 Frankfurt, Germany
July 2023	Urbino Summer School in Paleoclimatology Urbino, Italy
April 2023	EGU23 Vienna, Austria Abstract: http://dx.doi.org/10.5194/egusphere-egu22-2346
October 2022	6th Annual AlpArray & 4D-MB Scientific Meeting Prague, Cz. Rep.
August 2022	Climatic and Biotic Events of the Paleogene (CBEP) Bremen, Germany
May 2022	EGU22 Vienna, Austria Abstract: http://dx.doi.org/10.5194/egusphere-egu22-2346
October 2021	5th Annual AlpArray & 4D-MB Scientific Meeting online
June 2021	Summer School " <i>Principles, applications and new frontiers in isotope geochemistry (PAIG)</i> " online

Peer-review Publications

Ballian, A., Meijers, M. J. M., Cojan, I., Huyghe, D., Bernecker, M., Methner, K., Tagliavento, M., Fiebig, J., and Mulch, A. (2025). Middle Miocene climate evolution in the Northern Mediterranean region (Digne-Valensole basin, SE France). *Climate of the Past*, 21, 841–856. <https://doi.org/10.5194/cp-21-841-2025>

Boateng, D., Mutz, S., Methner, K., Ballian, A., Meijers, M. J. M., Mulch, A., Ehlers, T. A. (2025). Refining paleoelevation estimates of the European Alps by simulating Middle Miocene climate and $\delta^{18}\text{O}$ responses to diachronous surface uplift scenarios, *Gl. and Pl. Change*, 251, 104808, ISSN 0921-8181, <https://doi.org/10.1016/j.gloplacha.2025.104808>

Ballian, A., Chawchai, S., Miodic, J. M., Charoenchatree, W., Bissen, R., and Preusser, F. (2024). Late Holocene coastal dynamics south of the Chanthaburi estuary, eastern Gulf of Thailand. *Quaternary Research* 117, 19–29. <https://doi.org/10.1017/qua.2023.34>

Bernecker, M., Hofmann, S., Davies, A., Tagliavento, M., Meijer, N., Ballian, A., and Fiebig, J. (2023). A robust methodology for triple ($\Delta 47, \Delta 48, \Delta 49$) clumped isotope analysis of carbonates. *Chemical Geology*, 642(July), 121803. <https://doi.org/10.1016/j.chemgeo.2023.121803>

Boateng, D., Mutz, S. G., Ballian, A., Meijers, M. J. M., Methner, K., Botsyun, S., Mulch, A., and Ehlers, T. A. (2023). The effects of diachronous surface uplift of the European Alps on regional climate and the oxygen isotopic composition of precipitation, *Earth Syst. Dynam.*, 14, 1183–1210. <https://doi.org/10.5194/esd-14-1183-2023>

Awards

Sept. 2024	Student Poster Presentation Award 3rd place at GeoSaxonia 2024, Dresden, Germany
April 2024	Outstanding Student Presentation Award (OSPA) AGU23
May 2023	European Consortium for Ocean Research Drilling (ECORD) scholarship 2023 for attending the Urbino Summer School in Paleoclimate

Miscellaneous

Language	French ● ● ● ● ●	English ● ● ● ● ●	German ● ● ● ● ●
Informatics	Microsoft Office & Adobe Suite ● ● ● ● ●	Python, R ● ● ● ○ ○	ArcGIS/QGIS, LATEX, Matlab ● ● ● ● ●
Hobbies	Cello, boxing, hiking, art museums, travels		
Volunteering	2023-2024: Coordinator of the Communication Working Group, Leibniz PhD Network		