

Arnaud REBILLARD

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EDUCATION

09/2023 – Present: **DOCTORATE**, Museum für Naturkunde 10115 Berlin, Germany/Humboldt-Universität zu Berlin, Institut für Biologie, Invalidenstraße 42, 10115 Berlin, Germany

- Doctoral grant from the Elsa-Neumann Stipend (State Berlin, Germany)
- *Paleoecology across the European Carboniferous-Permian boundary revealed by 3D exploration of bromalites (preliminary title)*
- Adviser: J. FRÖBISCH

09/2020 – 08/2022: **MASTER Paleontology, paleoclimatology, paleoenvironment (PALEO)**, Lille University, Lille, France and Uppsala University, Uppsala, Sweden (**Double diploma**)

‘Investigating a Devonian vertebrate assemblage with synchrotron microtomography of coprolites’
- Adviser: P. AHLBERG and V. DUPRET

09/2017 – 07/2020: **LICENCE Science, Technology and Health**, Poitiers University, Poitiers, France.

MENTORING AND SOFTWARE PRESENTATIONS

Mentoring

06/2026-Present: Mentoring of Wei Ting TAN, Intern, Museum Für Naturkunde, Berlin, Germany (Segmentation of coprolite content)

06/2025-09/2025 Mentoring of Grace TOWNSEND, Intern, Museum Für Naturkunde, Berlin, Germany (Segmentation of coprolite content)

Software presentations

2025-2026: Five introduction sessions to new students on the segmentation software Dragonfly 3D World.

2026: Presentation to the “Fröbisch lab” members on Inkscape and Blender, applied to Palaeontology

PUBLIC ENGAGEMENT ACTIVITIES

Museum für Naturkunde, Berlin, Germany

- Regular contributions to the Bromacker Chroniken Instagram page
(https://www.instagram.com/bromacker_chroniken/?hl=en)

GRANT & FELLOWSHIPS

Synchrotron Beam Time

- 2025:** European Synchrotron Radiation Facility (9X8h shifts, BM18)
- Project #ES-1656: *'Paleoecology across the French Carboniferous-Permian boundary revealed by 3D exploration of coprolites'*
 - PI A. REBILLARD, w/Co-PIs J. FRÖBISCH, J-S. STEYER
- 2024:**
- SOLEIL Synchrotron (15X8h shifts, PUMA)
 - Project #20230723: *'Documenting palaeoecological adaptations to the drastic environmental changes of the Carboniferous-Permian boundary through the 3D exploration of fossilized feces'*
 - PI. A. REBILLARD

Research Funding

- 2023-Present:** Doctoral Grant, Elsa Neumann Stipend (Berlin State, Germany French Ministry of Research, France (52,200.00 €)
- 03/2022-08/2022** ERASMUS + Mobility Scholarship (Uppsala Sweden), (2,453.00 €)
- 01/2022-03/2022** ERASMUS + Mobility Scholarship (Tomsk, Russian Federation) (3,270.00 €)
- 08/2021-12/2021** ERASMUS + Mobility Scholarship (Uppsala Sweden) (1,250.00 €)
- 08/2021-12/2021** Scholarship international Mobility Grant of the Graduate Programme “Science for a Changing Planet” (3,500.00€)

AWARDS

- 2025:** Annual Meeting Grant_EAVP 2025 (Krakow, Poland) (275€)
- 2024:** PeerJ Award_Best Oral Presentation Prize - EAVP 2024
(<https://peerj.com/blog/post/115284889868/peerj-award-winners-at-eavp-2024/>) (Free publication voucher in PeerJ)
- 2024:** Annual Meeting Grant_EAVP 2024 (Longyearbyen, Svalbard) (526€)
- 2022:** Student travel grant (Fifth International Georges Cuvier Symposium, Montbéliard, France) (350€)

PUBLICATIONS

	Google Scholar	Scopus
Citations	18	16
h index	3	3

Published Refereed Journal Articles

1. **Arnaud, Rebillard**, Vincent Dupret, Pavel Beznosov, Per Erik Ahlberg. “Investigating a Devonian vertebrate assemblage with synchrotron microtomography of coprolites”, Scientific Reports
2. Daniel, Gonçalves, Bernard Delsahut, Christopher Hamann, **Arnaud Rebillard**. “New palaeontological remains from the early Permian Réalmont Basin (Tarn, France): implications for late-

Variscan palaeobiogeography and Progyrolepis taxonomy (Actinopterygii)" Fossil Record 29(2): 469-497.

3. Marchetti, Lorenzo, Antoine Logghe, **Arnaud Rebillard**, Mark J. MacDougall, and Jörg Fröbisch. "The evolutionary significance of the earliest cloacal opening in Synapsida." *iScience* 29, no. 8 (2026).
4. Marchetti, Lorenzo, Antoine Logghe, Michael Buchwitz, Mark J. MacDougall, **Arnaud Rebillard**, Thomas Martens, and Jörg Fröbisch. "The earliest reptile body impressions with scaly skin." *Current Biology* 36, no. 5 (2026): 1281-1290.
5. **Arnaud, Rebillard**, Andréas Jannel, Lorenzo Marchetti, Mark J. MacDougall, Christopher Hamann, J-Sébastien Steyer, and Jörg Fröbisch. "Early Permian terrestrial apex predator regurgitalite indicates opportunistic feeding behaviour." *Scientific Reports* 16, no. 1 (2026): 1087
6. Gonçalves, Daniel, Gérald Lemaître, Stanislav Štamberg, Antoine Logghe, **Arnaud Rebillard**, Jean-Marc Pouillon, Vincent Fernandez, and J-Sébastien Steyer. "A new aedeuclid from the Permian Franchesse Lagerstätte (Bourbon-l'Archambault Basin, Allier, France) highlights the evolution of Palaeozoic actinopterygians." *Journal of Systematic Palaeontology* 24, no. 1 (2026): 2661930.
7. Logghe, Antoine, **Arnaud Rebillard**, Guillaume Houée, Alicia Sánchez Gimeno, Erwan Courville, Lazare Elbaz, Paloma-Maria Taraba et al. "Palaeoecology and palaeoenvironment of Discosauriscus Kuhn, 1933 with exceptional preservation of skin and intestine molds from the early Permian of Franchesse (Allier, France)." *Comptes Rendus. Palevol* 24, no. 24 (2025): 489-504.
8. Gonçalves, Daniel, Vincent Luccisano, **Arnaud Rebillard**, Antoine Logghe, Stanislav Štamberg, and J-Sébastien Steyer. "New aquatic vertebrate and ichnological remains from the Upper Carboniferous of Decazeville (Aveyron, France): implications for the paleofauna of the French Variscan basins." *Comptes Rendus. Palevol* 24, no. 11 (2025).

In press and under review manuscripts

1. **Arnaud Rebillard**, Antoine Logghe, Pierre Guériau, Christopher Hamann, Kathleen Dollman, Jean-Marc Pouillon, Sebastian Schöder, Jörg Fröbisch, J.-Sébastien Steyer. "Pyritised intestines provide new insights into taphonomy and palaeoecology of a Permian seymouriamorph from France", PeerJ (under review)

3D/2D data repositories

1. **Arnaud Rebillard**, Jörg Fröbisch. "Early Permian terrestrial vertebrate apex predator regurgitalite indicates opportunistic feeding behaviour". MorphoSource repository, Project : 000779228 (<https://www.morphosource.org/projects/000776952?locale=en>) (2026)
2. **Arnaud Rebillard**, Aurore Canoville, Lorenzo Marchetti, Vincent Fernandez. Maxilla of *Franchessella pohlcremeri* preserved in Coprolite RH-FR-JM30 characterized using propagation phase contrast synchrotron X-ray micro computed tomography (Version 1) European Synchrotron Radiation Facility. <https://doi.org/10.1515/ESRF-DC-2312906704> (2026).

CONGRESS ABSTRACTS

2026: - Jörg Fröbisch, Lorenzo Marchetti, Michael Buchwitz, Antoine Logghe, Mark MacDougall, **Arnaud Rebillard**, Thomas Martens. "Exceptional soft tissue preservation from the terrestrial early Permian of the Thuringian Forest, central Germany" *Paleo4Alps 2026* (Bolzano, Italy, July 19-23), **Oral presentation.**

- **Arnaud Rebillard**, Antoine Logghe, Pierre Guériau, Christopher. Hamann, J. Fröbisch, J-Sébastien. Steyer. "Pyritised intestines provide new insights into digestive taphonomy and

paleoecology in a seymouriamorph (early Permian, France)” *European Association of Vertebrate Palaeontologists conference 2026* (June 29-July 5, Vilnius, Lithuania)-**Oral presentation.**

2025: - **Arnaud Rebillard**, Andréas Jannel, Lorenzo Marchetti, Mark MacDougall, Christopher Hamann, J-Sébastien Steyer, Grace Townsend, Jörg Fröbisch, Tetrapod feeding remains: the first bromalites from Bromacker (early Permian, Germany), *Society of Vertebrate Paleontology Conference* (November 12-15, Birmingham, England), **Oral Presentation.**

- **Arnaud Rebillard**, Andréas Jannel, Lorenzo Marchetti, Mark. MacDougall, Christopher Hamann, J-Sébastien Steyer, Grace. Townsend, Jörg Fröbisch, “Permian Feeding Remains: A Study of Bromalites from Bromacker (Thuringia, Germany)”, *Geo4Göttingen* (September 14-18, Göttingen, Germany), **Oral Presentation.**

- **Arnaud Rebillard**, Vincent Dupret, Pavel Beznosov, Per Erik Ahlberg, “Investigating a Devonian vertebrate assemblage with Synchrotron Microtomography of coprolites” *European Association of Vertebrate Palaeontologists conference 2025* (June 30-July 5, Kraków, Poland), **Oral Presentation.**

- Lorenzo Marchetti, Antoine Logghe, Michael Buchwitz, **Arnaud Rebillard**, Jörg Fröbisch. “Exceptional tetrapod body impressions and scaly skin traces from the early Permian Bromacker locality (Thuringia, Germany)”, *European Association of Vertebrate Palaeontologists conference 2025* (June 30-July 5, Kraków, Poland), **Oral Presentation.**

- Daniel Gonçalves, Vincent Luccisano, **Arnaud Rebillard**, Antoine Logghe, Stanislav Štamberg, J-Sébastien Steyer, “New aquatic vertebrate and ichnological remains from the Upper Carboniferous of Decazeville (Aveyron, France): implications on the paleofauna of the French variscan basins”, *GeoTolosa 2025* (June 24-27, Toulouse, France), **Poster.**

2024: - **Arnaud Rebillard**, Lorenzo Marchetti, Mark MacDougall, Christopher Hamann, J-Sébastien Steyer, Jörg Fröbisch. A regurgitalite from the Early Permian Bromacker locality (Thuringia, Germany), *The Palaeontological Association 68th Annual Meeting* (December 9-13, Erlangen, Germany) **Oral Presentation.**

- **Arnaud Rebillard**, Lorenzo Marchetti, Mark MacDougall, Christopher Hamann, J-Sébastien Steyer, Jörg Fröbisch. A regurgitalite from the Early Permian Bromacker locality (Thuringia, Germany), *European Association of Vertebrate Palaeontologists conference 2024* (August 28-September 1, Longyearbyen, Svalbard), **Oral Presentation.**

-**Arnaud Rebillard**. “Coprolites and regurgitalites as time capsules: discovering paleoecology through 3D exploration of bromalites”, *Arbeitskreis Wirbeltierpaläontologie Conference*, (March 15-17, Kiel, Germany) **Oral Presentation**

2022 - **Arnaud Rebillard**, Per E. Ahlberg, Pavel Beznosov, Vincent Dupret. Investigation of a Devonian Vertebrate Assemblage With Synchrotron Microtomography of Coprolites, *Fifth International Georges Cuvier Symposium* (October 19-22, Montbéliard, France). **Oral Presentation**

EXCAVATIONS AND PROSPECTION CAMPAIGNS

2024-2026: Early Permian, Bromacker Locality, Tambach Formation (Thüringia, Germany), Yearly excavation participation (Two weeks each year)/Vertebrate, invertebrate remains, trace fossils.

06/2026: Prospection campaign in the Lodève and Saint Affrique Basin (Occitanie, France).

- 09/2025:** Early Permian, Franchesse locality (Allier, France)/Vertebrate remains, coprolites.
- 07/2024:** Prospection campaign near La Seu D’Urgell (Catalonia, Spain).
- 06/2024:** Prospection campaign in the Lodève and Saint Affrique Basin (Occitanie, France).
- 06/2023:** Early Permian, Buxière les Mines locality (Allier, France)/Vertebrate remains, coprolites

SERVICE TO PROFESSION

Scientific committee for international conferences

2026: *European Association of Vertebrate Palaeontologists conference 2026* (June 29-July 5, Vilnius, Lithuania)

Reviewer for Scientific journals:

- Papers in *Palaeontology* (1) and *PeerJ* (2)

Early Career Researchers’ Representative

2023-Now: *Museum für Naturkunde*, Berlin, Germany

PUBLIC OUTREACH

Publications destined to the public

2026: **Arnaud Rebillard.** “Paleo Proxy Spotlight – Coprolites”, in the INCP Newsletter https://conservationpaleorcn.org/wp-content/uploads/2026/10/CPN-Newsletter_-30-Sept-2026.pdf

Arnaud Rebillard. “Le plus ancien vomit fossile d’un animal terrestre nous indique le menu d’un prédateur ayant vécu il y a 290 millions d’années”, *The Conversation France* (<https://doi.org/10.64628/AAK.dtyj5yft>)

Written Press (featured interviews)

2026: “This fossilized vomit is older than the dinosaurs”, *Scientific American*, <https://www.scientificamerican.com/article/this-fossilized-vomit-is-older-than-the-dinosaurs>

“Fossilized vomit reveals 290-million-year-old predator’s diet”, *Science News*, <https://www.sciencenews.org/article/fossilized-vomit-reveal-predator-diet>

“Le plus ancien vomit fossile terrestre connu à ce jour découvert en Allemagne” *FranceInfo Culture*, https://www.franceinfo.fr/culture/patrimoine/histoire/le-plus-ancien-vomi-fossile-terrestre-connu-a-ce-jour-decouvert-en-allemande_7772513.html

“Découverte du plus ancien vomit fossile terrestre : "Ce sont des capsules temporelles fantastiques", se réjouit un paléontologue français”, *FranceInfo*, https://www.franceinfo.fr/sante/decouverte-scientifique/decouverte-du-plus-ancien-vomi-fossile-terrestre-ce-sont-des-capsules-temporelles-fantastiques-se-rejouit-un-paleontologue-francais_7774697.html

“Un vomit de 290 millions d’années est le plus vieil exemple de régurgitation fossile par un animal terrestre jamais découvert” *Le Figaro*, <https://www.lefigaro.fr/sciences/un-vomi-de-290-millions-d-annees-est-le-plus-vieil-exemple-de-regurgitation-fossile-jamais-decouvert-20260131>

Interviews

2026 “Earth’s Ancient Hydrogen, And Fossilized Vomit”, *Science Friday*, <http://sciencefriday.com/segments/hydrogen-earths-core-fossilized-vomit/>

“Un vomit fossilisé révèle le menu d'un prédateur il y a 290 millions d'années”, *France Culture*, <https://www.radiofrance.fr/franceculture/podcasts/avec-sciences/un-vomi-fossilise-revele-le-menu-d-un-predateur-il-y-a-290-millions-d-annees-3277510>

“Un vomit qui date de 290 millions d'années”, *RTS*, <https://www.rts.ch/audio-podcast/2026/audio/un-vomi-qui-date-de-290-millions-d-annees-29137529.html>

“Un Manitobain a contribué à la découverte de vomit fossilisé en Allemagne” *Radio Canada*, <https://ici.radio-canada.ca/ohdio/premiere/emissions/l-actuel/segments/rattrapage/2305130/vomi-fossilise-prehistorique-decouvert-en-allemande>

2025 Was Ursaurier am Bromacker ausspuckten: Regurgitalithe und digitale Forschung – Museums-Evolution, *Museum für Naturkunde Berlin Youtube Channel*, https://www.youtube.com/watch?v=AL6JNx_F3M

ADDITIONAL INFORMATION & SKILLS

- **Languages:** French (mother tongue); English (fluent); Russian (Conversational level)
- **Graphic, 3D reconstruction and other analytical software:** Adobe Photoshop, Inkscape, Dragonfly 3D World, VG Studio Max, Amira, Mimics, ImageJ, Blender, Rstudio, Python
- **Technical experience in:**, elemental analyses/ chemical mapping Micro-XRF, Use of tachymeter at the excavation.
- **Geological skills:** Stratigraphic log
- **Driving licence (B category)**