

Curriculum Vitae

BEGAT Arnaud M.Sc. & B.Sc., Dipl.-Geow.

Address

Department of Palaeontology
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Education

Since 2021 – PhD Thesis at the EvoMoRG laboratory, department of Paleontology, University of Vienna, Austria.

- **Topic:** Mesozoic elasmobranch fish (sharks, skates, and rays) ecology and diversity patterns before extinction events.

2016–2019 – M.Sc. Student of Geosciences at the University of Burgundy, France.

- **Thesis:** Late Cretaceous Elasmobranchs (Sharks, Skates and Rays) from the Austral Basin of Patagonia, South America.

2013–2016: B.Sc. Student of Geosciences at the University of Burgundy, France.

Field experiences

June 2024 – Field trip in Triassic deposits of Polzberg, Austria.

- **Topics:** Extraction of fossil vertebrates remains from terrestrial and aquatic sediments

August – September 2019 – Field trip in Armenia, organised by the Jurassica Museum of Switzerland.

- **Topics:** Extraction and preparation of fossil vertebrates remains from terrestrial and aquatic sediments.

October 2018 – Field trip at Carry-le-Rouet (South-East of France), organised by the University of Burgundy.

- **Topics:** Stratigraphy and palaeoenvironments of Cenozoic deposits.

May 2018 – Field trip in the North of Dignes-les-Bains (France), organised by the University of Burgundy.

- **Topics:** Cartography, Sedimentology, Stratigraphy.

March 2018 – Field trip in the Amellagou sector (Morocco), organised by the University of Burgundy.

- **Topics:** Stratigraphy, Palaeontology, Ichnology, Palaeoenvironments.

May 2017 – Field works in Provence and Cevennes (France), organised by the University of Burgundy.

- **Topics:** Sedimentology, Sequential Stratigraphy, Palaeobotany, Ichnology.

May 2017 – Field works in the North of Dignes-les-Bains, (France), organised by the University of Burgundy.

- **Topics:** Cartography, Sedimentology, Stratigraphy.

Additional internships

February – March 2018 – Internship at the Institut des Sciences de l'Évolution de Montpellier (ISEM), University of Montpellier 2, France.

- **Subject:** Evolution of the elasmobranch faunas of Aquitaine (Miocene) in their paleogeographical context [In French].

February – March, 2017 – Internship at Morph'Optics, University of Burgundy, France. (February to March, 2017).

- **Subject:** Size of Framboidal pyrites from Smithian – Spathian deposits of the West American Basin [In French].

Funding and short contracts

2021–Recent – PhD Thesis founded by the Österreichischer Wissenschaftsfonds (FWF P 35357).

November–mid December 2020 – One-month and a half contract at the University of Vienna (Werkevertrag).

December 2019 – One-month contract at the University of Vienna (Werkvertrag).

Scientific publications

First author:

- Begat A.**, Kriwet J., Gelfo, J.N., Goin F.J., Gouiric Cavalli S., Schultz J.A., Martin T. (2022). The first southern hemisphere occurrence of the extinct Cretaceous sclerorhynchoid sawfish *Ptychotrygon* (Chondrichthyes, Batoidea), with a review of *Ptychotrygon* taxonomy. *Journal of Vertebrate Paleontology* 42 (2), 14 pp.
- Begat A.**, Kriwet J., Gelfo, J.N., Goin F.J., Gouiric Cavalli S., Schultz J.A., Martin T. (2024). Novel perspectives on Late Cretaceous elasmobranch diversity in the Southern Hemisphere high latitudes. *Cretaceous Research*. In review.
- Begat A.**, Villalobos-Segura, E., Jambura, P. L., Staggl, M., A., Kriwet, J. (2024). A revision of the extinct shark *Protospinax*, with description of two new Late Jurassic orectolobiforms (Chondrichthyes, Selachimorpha). *Swiss Journal of Palaeontology*. In review.
- Begat A.**, Villalobos-Segura, E., Amadori, M., Klug., S., Kriwet, J. An offshore elasmobranch assemblage from the Late Jurassic of Mahlstedten, Germany: new insights on the elasmobranch palaeoenvironmental distribution. *Palaeontology*. In prep.
- Begat A.**, Amadori, M., Villalobos-Segura, E., Klug., S., Kriwet, J. Synoptic review of Late Jurassic chondrichthyans (Holocephali, Elasmobranchii) of the Iberian Ranges (NE Spain). In prep.
- Begat A.**, Villalobos-Segura, E., Amadori, M., Riou, B., Kriwet, J. The oldest known “sawshark” from the Middle Jurassic of France, new insights on a convergent evolutionary model among elasmobranchs. In prep.
- Begat A.**, Villalobos-Segura, E., Amadori, E., Riou, B., Kriwet, J. A fascinating deep sea elasmobranch fauna from the Callovian of France: a new window on the evolution of deep-sea elasmobranchs. In prep.

Co-author:

Jambura, P. L., Villalobos-Segura, E., Türtscher, J., **Begat, A.**, Staggl, M. A., Stumpf, S., Kindlimann, R., Klug, S., Lacombat, F., Pohl, B., Maisey, J. G., Naylor G. J. P., Kriwet, J. (2023). Systematics and phylogenetic interrelationships of the enigmatic late Jurassic shark *Protospinax annectans* Woodward, 1918 with comments on the shark–ray sister group relationship. *Diversity*, 15(3), 43pp.

Villalobos-Segura, E., Stumpf, S., Türtscher, J., Jambura, P. L., **Begat, A.**, López-Romero, F. A., Fischer, J., Kriwet, J. (2023). A Synoptic Review of the Cartilaginous Fishes (Chondrichthyes: Holocephali, Elasmobranchii) from the Upper Jurassic Konservat-Lagerstätten of Southern Germany: Taxonomy, Diversity, and Faunal Relationships. *Diversity*, 15 (3), 70pp.

Membership in Scientific Associations

APF (Association Paléontologique Française): 2024-2026.

Prices

Price Déperet – Best PhD student presentation at the APF Congress (Montauban, June 2024).

Conferences and Symposia

- APF Congress in Montauban, France (June 2024).
Talk: The elasmobranch assemblage of Mahlstetten (Offshore, Kimmeridgian): novel perspectives on the palaeoenvironmental distribution of elasmobranchs [in French].
- AKW Congress in Berlin, Germany (March 2023).
Poster: The enigmatic shark *Protospinax*: A revision of the genus dentition.
- The 6th international Palaeontological Congress (IPC 6) in Khon Kaen, Thailand (November 2022).
Talk: Late Jurassic elasmobranchs of Mahlstetten (Germany): new insights of elasmobranch palaeodiversity in offshore environment

- 8ème Rencontres de l'Ichtyologie Française in Paris, France (March 2022).
Poster: New Elasmobranchs from the Late Cretaceous of Patagonia, Argentina.

Softwares

- MS Office (Word, Excel, PowerPoint) and Libre Office.
- Adobe (Illustrator, Photoshop), GIMP.
- Mr Bayes, Mesquite, TNT, Winclada.
- Rstudio, Past3.
- Photoscan, Meshlab, Visual SFM, CombineZ.
- QGIS.
- Vegas Pro, OBS Studio.

Additional skills

- Driving licence
- Field extraction of vertebrate fossils
- Classical and Macro photography of fossils
- Numerical microscope photography of microvertebrates fossils (e.g. stacking, multi-lightning sources)
- Occasional guitar and bass guitar player