

Dr. rer. nat.

MANUEL AMADORI

Paleobiologist

PROFILE

Experienced paleobiologist with an extensive background in **evolutionary biology** and **palaeoichthyology**. Scientific researcher primarily interested in the evolution and ecology of **sharks in deep time** adopting a **multidisciplinary approach**. Highly organised, methodical and detail-oriented. A reliable resource for the team, always punctual and determined to achieve personal and shared goals.

EDUCATIONAL BACKGROUND

• May 2022 - PhD in Natural Science

University of Vienna (Universität Wien).

Vienna Doctoral School for Ecology and Evolution (VDSEE).

Final valuation: Excellent.

Thesis: "Palaeobiology and Taxonomy of the extinct elasmobranch shark, †*Ptychodus* (Vertebrata, Chondrichthyes)".

• March 2018 - Master Degree in Biodiversity and Evolution

University of Bologna (Alma Mater Studiorum).

Final score: 108/110.

Thesis: "Revision of the genus *Ptychodus* (Chondrichthyes, Elasmobranchii) in the Upper Cretaceous of Veneto".

• July 2015 - Bachelor Degree in Biological Sciences

University of Urbino (Università degli Studi "Carlo Bo").

Final score: 93/110.

Thesis: "Scanning electron microscope observation of *Cimex pipistrelli* (Arthropoda, Rhynchota)".

PROFESSIONAL HISTORY

• Dicember 2023 - Dicember 2024

Postdoc

Department of Palaeontology (University of Vienna).

FWF research project "Reassessment of Late Jurassic elasmobranch fishes of Europe".

• March 2022 - November 2023

Technical assistant (microCT-lab)

Department of Palaeontology (University of Vienna).

• October 2020 - February 2021

Technical assistant (microCT-lab)

Department of Palaeontology (University of Vienna).

Personal Details

Date of Birth: 22th August 1989

Nationality: Italian

Place of Birth: Fano, PU (Italy)

Address:

Department of Palaeontology,
University of Vienna,
Josef-Holaubek-Platz 2
1090 Vienna, AT

Find Me Online

Research Group:

<http://www.evomorg.org>

Orcid:

<https://orcid.org/0000-0002-8163-9396>

ResearchGate:

<https://www.researchgate.net/profile/Manuel-Amadori>

Languages

Italian (written) 

Italian (spoken) 

English (written) 

English (spoken) 

German (spoken) 

Skills

Fast Learning 

Problem Solving 

Time Manag. 

Adaptability 

Team Work 

Outreach 

Mentoring 

Teaching 

Key Topics

Functional Morphology - Taxonomy - Ecology - Paleobiogeography - Taphonomy - Phylogeny

COMPETENCES & KNOWLEDGE

Palaeontology

Identification processes and cataloguing of findings. Excavation, securing and recovery techniques. Palaeogeographic reconstructions based on a biogeographic data.

Statistics & Morphometrics (Traditional & Geometric)

Linear distance data to quantify phenotypic variation. Landmarks and semilandmarks configurations. Data acquisition and digitalization. Generalized Procrustes Analysis. Morphospace representation. Univariate and multivariate statistics.

Microscopy & Computed Tomography (CT)

Sample preparation and observation with optical microscope, stereoscopic microscope and scanning electron microscope (SEM). Paleontological material analysing with scan micro-CT (Skyscan 1173 Desktop-Micro-CT, Bruker).

Phylogeny

Laboratory techniques for the study of phylogeny at different taxonomic levels. Database management (morphological and molecular characters) and analysis with the main phylogenetic methods applied to evolutionary sciences. Statistical surveys and techniques for multivariate analysis. Reconstructions of phylogeny through different models.

Computer Technology

Office 2016 package (e.g., Word, Excel, PowerPoint). Highly skilled in data processing and imaging (e.g., R; Past; Dragonfly 3D; Amira) and design softwares (e.g., Adobe Photoshop CS6; Adobe Illustrator CS6; ImageJ).

AWARDS & GRANTS

• 2024 - Erich Thenius-Stipendium

Awarded by the Austrian Academy of Sciences. The award is given to you for the excellent PhD thesis on the Palaeobiology and Taxonomy of the extinct elasmobranch shark, †*Ptychodus* (Vertebrata, Chondrichthyes).

• 2021 - Abschluss-Stipendiums (VDSEE Completion Grant)

Awarded by the Vienna Doctoral School of Ecology and Evolution (VDSEE). Aiming to support doctoral students in their final phase of their doctoral studies beyond their current thesis funding.

• 2020 - Kurzfristige Wissenschaftliche Auslandsstipendien (KWA)

Awarded by the University of Vienna for a stay of 40 days at the major museums in southern England. This project aims at clarifying the taxonomic identity and diversity of *Ptychodus* and to better understand the evolution of durophagous elasmobranchs during the Cretaceous.

• 2019 - Ernst Mach Grant, Ernst Mach – worldwide

Awarded by OeAD-GmbH/INM on behalf of and financed by the Federal Ministry of Science, Research and Economy (BMWFV); proposed project: "The durophagous Cretaceous shark *Ptychodus* (Chondrichthyes, Elasmobranchii): Taxonomy, dental evolution and palaeobiological implications".

Affiliations

IPS (SPI)

Italian Palaeontological Society
(Società Paleontologica Italiana)

EAVP

European Association of
Vertebrate Palaeontologists

Management & Responsibility

2023

Member of the Scientific Committee for the 4th Palaeontological Virtual Congress.

2014-2015

Management of the enclosure and related microscopy laboratory at the Department of Biomolecular Sciences (University of Urbino "Carlo Bo", Italy).

Peer Review Activities

2023 - Reviewer (PeerJ)

Additional Work Experience

October 2017: Palaeontological excavations directed by the Natural History Museum of Verona in the surrounding of "Valle della Chiesa" (Roncà, VR, Italy) to recover molluscs and other macroinvertebrates.

September 2017: Emergency palaeontological excavation directed by the Natural History Museum of Friuli for to recover fossil fishes and small crustaceans in Cave del Predil (UD, Italy).

SCIENTIFIC PUBLICATIONS (peer-reviewed papers)

2025

Amadori M., Japundžić S., Amalfitano J., Giusberti L., Fornaciari E., Jambura P.L., Kriwet, J. New insights on the shell-crusher shark *Ptychodus decurrens* Agassiz, 1838 (Elasmobranchii, Ptychodontidae) based on the first known articulated dentition from the Upper Cretaceous of Croatia. *Swiss Journal of Palaeontology*, 144, 2.

2024

Vullo R., Villalobos-Segura E., **Amadori M.**, Kriwet J., Frey E., González M.A.G., Gutiérrez J.M.P., Ifrim C., Stinnesbeck E.S., Stinnesbeck W. Exceptionally preserved shark fossils from Mexico elucidate the long-standing enigma of the Cretaceous elasmobranch *Ptychodus*. *Proceedings of the Royal Society B*, 291, 20240262.

2023

Jambura P.L., Solonin S.V., Cooper S.L., Mychko E.V., Arkhangelsky M.S., Türtscher J., **Amadori M.**, Stumpf S., Vodorezov A.V., Kriwet J. Fossil marine vertebrates (Chondrichthyes, Actinopterygii, Reptilia) from the Upper Cretaceous of Akkermanovka (Orenburg Oblast, Southern Urals, Russia). *Cretaceous Research*, 155, 105779.

Amadori M., Kovalchuk O., Barkaszi Z., Giusberti L., Kindlimann R., Kriwet J. A diverse assemblage of *Ptychodus* species (Elasmobranchii: Ptychodontidae) from the Upper Cretaceous of Ukraine, with comments on possible diversification drivers during the Cenomanian. *Cretaceous Research*, 151, 105659.

2022

Amadori M., Solonin S.V., Vodorezov A.V., Shell R., Niedźwiedzki R., Kriwet J. The extinct shark, *Ptychodus* (Elasmobranchii, Ptychodontidae) in the Upper Cretaceous of central-western Russia—The road to easternmost peri-Tethyan seas. *Journal of Vertebrate Paleontology*, 42(2), e2162909.

Amadori M., Kindlimann R., Fornaciari E., Giusberti L., Kriwet, J. A new cuspidate ptychodontid shark (Chondrichthyes; Elasmobranchii), from the Upper Cretaceous of Morocco with comments on tooth functionalities and replacement patterns. *Journal of African Earth Sciences*, 187, 104440.

2020

Amadori M., Amalfitano J., Giusberti L., Fornaciari E., Carnevale G., Kriwet, J. The Italian record of the Cretaceous shark, *Ptychodus latissimus* Agassiz, 1835 (Chondrichthyes; Elasmobranchii). *PeerJ*, 8, e10167.

Amadori M., Amalfitano J., Giusberti L., Fornaciari E., Carnevale G. & Kriwet J. A revision of the Upper Cretaceous shark *Ptychodus mediterraneus* Canavari, 1916 from northeastern Italy, with a reassessment of *P. latissimus* and *P. polygyrus* Agassiz, 1835 (Chondrichthyes; Elasmobranchii)". *Cretaceous Research*, 104386.

2019

Amadori M., Amalfitano J., Giusberti L., Fornaciari E., Luciani V., Carnevale G., Kriwet J. First associated tooth set of a high-cusped *Ptychodus* (Chondrichthyes, Elasmobranchii) from the Upper Cretaceous of northeastern Italy, and resurrection of *Ptychodus altior* Agassiz, 1835. *Cretaceous Research*, 93, 330-345.

Amadori M., Amalfitano J., Giusberti L., Fornaciari E., Carnevale G. Resti inediti di *Ptychodus* Agassiz, 1834 (Ptychodontidae, Chondrichthyes) conservati presso il Museo Civico di Rovereto (Trento). *Annali del Museo Civico di Rovereto*, 34, 221-247.

2018

Giusberti L., **Amadori M.**, Amalfitano J., Carnevale G., Kriwet J. Remarks on the nomenclature of the genera *Ptychodus* Agassiz, 1834 and *Buffonites* Sternberg, 1829 (Ptychodontidae, Chondrichthyes). *Bollettino della Società Paleontologica Italiana*, 57(3), 252.

CONFERENCES & SYMPOSIA

2025

Amadori M., Villalobos-Segura E., Begat A., Kriwet J. - **Poster:** A reassessment of orectolobiform sharks (Chondrichthyes; Neoselachii) from the Upper Jurassic of Europe. 50. Treffen des Arbeitskreises Wirbeltierpaläontologie der Paläontologischen Gesellschaft.

2024

Villalobos-Segura E., Stumpf S., **Amadori M.**, Begat A., Jambura P.L., Türtscher J., Kriwet J. - **Talk:** Unravelling ancient sharks and rays: Phylogenetic insights into the Late Jurassic and Early Cretaceous neoselachians. The Palaeontological Association: 68th Annual Meeting. 9th–13th December 2024. Erlangen, Germany. PROGRAMME ABSTRACTS, 92.

Amadori M., Amalfitano J., Giusberti L., Fornaciari E., Jambura P.L., Japundžić S., Kriwet J. - **Talk:** On Body Size, Tooth Variation And Possible Ontogenetic Dietary Shifts In The Shell-Crusher Shark *Ptychodus Agassiz, 1834*. 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, 2. Instytut Paleobiologii PAN, Warszawa. doi.org/10.4202/app.01209.2024

Begat A., Villalobos-Segura E., **Amadori M.**, Riou B., Kriwet J. - **Talk:** The Middle Jurassic Assemblage of La Voulte Sur-Rhône Lagerstätte (SE France): A New Jurassic Deep-Sea Shark Paleodiversity. 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, 17. Instytut Paleobiologii PAN, Warszawa. doi.org/10.4202/app.01209.2024

Villalobos-Segura E., Stumpf S., **Amadori M.**, Jambura P.L., Türtscher J., Kriwet J. - **Talk:** Revising the systematic position of the enigmatic shark-like chondrichthyan *Homalodontus aplopus* from the Lower Triassic of Canada. 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, 154. Instytut Paleobiologii PAN, Warszawa. doi.org/10.4202/app.01209.2024

Begat A., Villalobos-Segura E., **Amadori M.**, López-Romero F.A., Klug S., Kriwet J. - **Talk:** L'assemblage d'éasmobranches de Mahlstetten (Offshore, Kimméridgien): nouvelles perspectives sur la distribution paléoenvironnementale des éasmobranches. CONGRES APF 2024, Montauban, France.

Amadori M., Villalobos-Segura E., Begat A., Jambura P.L., Türtscher J., Stumpf S., Kriwet J. - **Poster:** Reassessment of the "Sea-God" Shark *Phorcynis catulina* from the Upper Jurassic of Europe. XXIV edizione delle Giornate di Paleontologia (Palaeodays, SPI), Pisa (Italy). Abstract Book, 118.

Villalobos-Segura E., **Amadori M.**, Stumpf S., Jambura P.L., Begat A., López-Romero F.A., Kriwet J. - **Poster:** Reassessment of the enigmatic shark "*Sphenodus*" based on new skeletal material from the Upper Jurassic of Germany. 49. Treffen des Arbeitskreises Wirbeltierpaläontologie der Paläontologischen Gesellschaft.

2023

Villalobos-Segura E., **Amadori M.**, Stumpf S., Jambura P.L., Begat A., Lopez-Romero F.A., Kriwet J. - **Poster:** Reassessment of the enigmatic shark "*Sphenodus*" based on new skeletal material from the Upper Jurassic of Germany. 49. Treffen des Arbeitskreises Wirbeltierpaläontologie der Paläontologischen Gesellschaft.

Japundžić S., **Amadori M.**, Amalfitano J., Jambura P.L., Giusberti L., Fornaciari E., Kriwet J. - **Poster:** Dental Remains Of The Extinct Shark *Ptychodus* (Elasmobranchii, Ptychodontidae) From The Upper Cretaceous Of Croatia. 7th Croatian Geological Congress (7HGK), Poreč, Croatia. Abstract Book, 81-82.

Amadori M., Villalobos-Segura E., Stumpf S., Kriwet J. - **Talk:** The systematic position of the Jurassic shark †*Palidiplosinax* (Neoselachii; Palaeospinacidae) revisited. XVII European Congress of Ichthyology, Prague. Abstract Book.

Amadori M., Villalobos-Segura E., Stumpf S., Kriwet J. - **Poster:** Revision of the Jurassic shark †*Palidiplosinax* (Neoselachii; Palaeospinacidae). 48. Treffen des Arbeitskreises Wirbeltierpaläontologie der Paläontologischen Gesellschaft.

2022

Amadori M. - **Talk:** Tracking the “Kraken-Killer”: Rise and fall of cretaceous enigmatic durophagous shark *Ptychodus* (Elasmobranchii, Ptychodontidae). *82nd Annual Meeting of the SVP, Toronto*. Abstract Book, 65.

2018

Amadori M., Amalfitano J., Giusberti L., Fornaciari E., Carnevale G., Kriwet J. - **Talk:** “A reappraisal of the Italian record of *Ptychodus* (Chondrichthyes, Elasmobranchii).” *XIII edizione delle Giornate di Paleontologia (Palaeodays, SPI), Trento e Predazzo (Italy)*. Abstract Book, 28.

Amadori M., Amalfitano J., Giusberti L., Fornaciari E., Carnevale G., Kriwet J. - **Poster:** “Articulated tooth sets of *Ptychodus polygyrus* Agassiz from the Upper Cretaceous of northeastern Italy”. *XIII edizione delle Giornate di Paleontologia (Palaeodays, SPI), Trento e Predazzo (Italy)*. Abstract Book, 73.

2015

Priori P., **Amadori M.**, Guidi L., Scaravelli D. - **Poster:** “Morfologia esterna di *Cimex pipistrelli* Jenyns, 1839 con note ecologiche”. *III Convegno Italiano sui Chirotteri, Trento*. Abstract Book.