

# CURRICULUM VITAE ET STUDIORUM

## Manuel Amadori

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### EDUCATION

**High School** Istituto d'Istruzione Superiore "A. Cecchi"  
(Villa Caprile, Pesaro, PU, Italy)  
Final score: 83/100

**Bachelor Degree** Università degli Studi di Urbino Carlo Bo  
Degree in Biological Sciences (L-13)  
Molecular-Biological Curriculum  
Final score: 93/110

**Master Degree** Alma Mater Studiorum - Università di Bologna  
Degree in Biodiversity and Evolution (L-6)  
Final score: 108/110

### EXPERIENCES, KNOWLEDGE and SKILLS

**Experiences Abroad** Stay in Austria, from 8 April 2018 to 30 May 2018 at the Department of Palaeontology (Geozentrum) of the University of Vienna, in order to deepen the studies on enigmatic fossil sharks included in the genus *Ptychodus* (Chondrichthyes) and to carry out scientific papers. Specifically, analyses were carried out to evaluate the morphologies and the arrangement of the teeth of this elasmobranch. The activities were carried out under the supervision of Professor Jürgen Kriwet, collaborating closely with researchers from different disciplines (e.g., geology, biology, phylogeny).

**Palaeontology (skills)** Preparation, cleaning and consolidation of paleontological macro-remains before the study and analysis phase.  
Matrix powder withdrawals for micropaleontological analysis.

**Palaeontology (knowledge acquired)** Identification processes and cataloguing of findings.

<b>Other Activities</b>	<p>Excavation, securing and recovery techniques.</p> <p>Palaeogeographic reconstructions based on a biogeographic data.</p> <p>Cooperation during an emergency excavation for the recovery of paleontological findings (fish and small crustaceans) held on 6 September 2017 in Cave del Predil (UD, Italy).</p> <p>Collaboration with the staff of the Museum of Geology and Palaeontology of the University of Padua during the extraordinary opening on the “Researchers’ Night” held on 19 September 2017.</p> <p>Cooperation with paleontological excavations, directed by the Natural History Museum of Verona, on 4 October 2017 in the surrounding of “Valle della Chiesa” (Roncà, VR, Italy), in order to recover molluscs and other macroinvertebrates.</p> <p>Participation in the Conference “Bolca: un patrimonio storico-paleontologico da valorizzare” held on 17-18 November 2017.</p> <p>Participation in the “Giornate di Paleontologia” (Palaeodays) of the Italian Paleontological Society (SPI) held in Trento (Italy) and Predazzo from 6-8 June 2018. Presentation of two contributions (oral and poster, see the paragraph “RESULTS” below).</p>
<b>Phylogeny (knowledge acquired)</b>	<p>Laboratory techniques (e.g., analysis of molecular and morphological characters of phylogenetic interest) for the study of phylogeny at different taxonomic levels.</p> <p>Database management (morphological and molecular characters) and analysis with the main phylogenetic methods applied to evolutionary sciences.</p> <p>Statistical surveys, mainly in the techniques for multivariate analysis (e.g., PCA, etc.) and in the selection tests.</p> <p>Reconstructions of phylogeny through different models (e.g., “Neighbor joining tree”, “Maximum likelihood”, “Maximum parsimony”, “Bayesian statistics”).</p>
<b>Microscopy (skills)</b>	<p>Histological preparations (fixation, inclusion, microtome cutting, sample staining) and microscope observation (e.g., stereomicroscope, binocular).</p> <p>Preparation of samples for observation by Scanning Electron Microscope (SEM) (e.g., fixation, dehydration in ethanol, drying by “Critical Point Dryer”, assembly, coating or metallization).</p>

<b>Biomolecolare (knowledge acquired)</b>	Biochemical techniques (e.g., Western-Blotting), “vector design” (e.g., primers design, digestions, ligations, cloning) and molecular biology (e.g., extraction and purification of nucleotide, electrophoresis, PCR amplification, bacterial cloning).
<b>Microbiology (knowledge acquired)</b>	Preparation of liquid/solid bacteria cultures and practice on methods, such as “isolation” and “transformation”.  Analysis by immunological assays (e.g., in vitro cell proliferation).
<b>Computer Technology (skills)</b>	Office 2016 package (e.g., Word, Excel, PowerPoint).  Programs for data and picture processing (R v.3.5.0, packages “ape”, “ade4”, “vegan”, “adegenet”, “MASS”, “pvclust”, “pegas”; Past v.3.17; Adobe Photoshop CS5 v.12.0 x32; ImageJ v.1.47).  General knowledge on main programs for phylogenetic analysis (e.g., PAUP, MrBayes v.3.2.2, MEGA v.6)
<b>Foreign Language</b>	English.
<b>Management and Responsibility</b>	Management of an enclosure for research purposes (e.g., histological analysis using confocal microscopy) on the group Placozoa (species kept: <i>Trichoplax adhaerens</i> ).
<b>INTEREST in RESEARCH</b>	My current research focuses on taxonomy, biodiversity and evolution of extinct marine vertebrates. My studies on these fossil vertebrates have allowed me to significantly expand my skills in the evolutionary and paleobiological field.  Through future research, I hope to improve my knowledge in the systematic, taphonomic, palaeogeographic and palaeoecological fields in relation to Cretaceous fishes.
<b>MOTIVATIONS</b>	I am an enthusiastic, curious and methodical person, mainly interested in scientific subjects. I adapt easily and can quickly learn technical and practical methodologies. I prefer a multidisciplinary approach, seeking collaboration with professionals of different subjects in order to develop new skills and solve new challenges.

## RESULTS

<b>Thesis</b>	<p><b>Bachelor thesis</b> (experimental) in entomology entitled: “L’osservazione al microscopio elettronico a scansione di <i>Cimex pipistrelli</i> (Arthropoda, Rhynchota)” “Scanning electron microscope observation of <i>Cimex pipistrelli</i> (Arthropoda, Rhynchota)”</p> <p><b>Master thesis</b> (experimental) in palaeontology entitled: “Revisione del genere <i>Ptychodus</i> (Chondrichthyes, Elasmobranchii) nel Cretaceo Superiore del Veneto” “Revision of the genus <i>Ptychodus</i> (Chondrichthyes, Elasmobranchii) in the Upper Cretaceous of Veneto”</p>
<b>Scientific Papers</b>	<p>Giusberti L., <u>Amadori M.</u>, Amalfitano J., Carnevale G., Kriwet J. (2018). “Remarks on the nomenclature of the genera <i>Ptychodus</i> Agassiz, 1834 and <i>Buffonites</i> Sternberg, 1829 (Ptychodontidae, Chondrichthyes)” published at the journal “<i>Bollettino della Società Paleontologica Italiana</i>, 57(3), 252”.</p> <p><u>Amadori M.</u>, Amalfitano J., Giusberti L., Fornaciari E., Luciani V., Carnevale G., Kriwet J. (2019). “First associated tooth set of a high-cusped <i>Ptychodus</i> (Chondrichthyes, Elasmobranchii) from the Upper Cretaceous of northeastern Italy, and resurrection of <i>Ptychodus altior</i> Agassiz, 1835” published at the journal “<i>Cretaceous Research</i>, 93, 330-345”.</p> <p><u>Amadori M.</u>, Amalfitano J., Giusberti L., Fornaciari E., Carnevale G. (2019) “Resti inediti di <i>Ptychodus</i> Agassiz, 1834 (Ptychodontidae, Chondrichthyes) conservati presso il Museo Civico di Rovereto (Trento)” published at the journal “<i>Annali del Museo Civico di Rovereto</i>, 34, 221-247”.</p>
<b>Other Scientific Contributions</b>	<p><b>Oral Presentation:</b> <u>Amadori M.</u>, Amalfitano J., Giusberti L., Fornaciari E., Carnevale G., Kriwet J. “A reappraisal of the Italian record of <i>Ptychodus</i> (Chondrichthyes, Elasmobranchii).” XIII edizione delle Giornate di Paleontologia, Trento e Predazzo, 6-8 giugno 2018 – Abstract book.</p> <p><b>Poster:</b> <u>Amadori M.</u>, Amalfitano J., Giusberti L., Fornaciari E., Carnevale G., Kriwet J. “Articulated tooth sets of <i>Ptychodus polygyrus</i> Agassiz from the Upper Cretaceous of northeastern Italy” XIII edizione delle Giornate di Paleontologia, Trento e Predazzo, 6-8 giugno 2018 - Abstract book.</p> <p><b>Poster:</b> Priori P., <u>Amadori M.</u>, Guidi L., Scaravelli D. “Morfologia esterna di <i>Cimex pipistrelli</i> Jenyns, 1839 con note ecologiche” III Convegno Italiano sui Chiroteri,</p>

**AWARDS  
and GRANTS**

Trento, 9-11 ottobre 2015.

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