



## Fidji Berio

- 30 years old
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- <https://fberio.github.io>
- [fidji.berio@gmail.com](mailto:fidji.berio@gmail.com)
- French Citizenship

## Social Network

- Twitter
- ResearchGate
- Google Scholar
- Github
- Orcid

## Languages

- French ● ● ● ● ●
- English ● ● ● ● ●
- Spanish ● ● ● ● ●

## Hobbies

### Diving

- Level 2 FFESSM (Advanced PADI)
- Level 1 Nitrox
- PADI Freediver

### DIY

- House building
- Gardening

### Travel

- Touring
- Camping

# Evo-Devo of chondrichthyans

## Working Experience

Nov 2022–Now	<b>Contractor</b> Stockholm University Projects Physiology of walking elasmobranchs & Mineralization patterns in bony fish related to climate change
Sept–Oct 2022	<b>Guest professor</b> University of Vienna Teaching Functional evolution of jaw structures Research Evo-Devo of lateral line in chondrichthyans
2021–2022	<b>Science communicator</b> Futura Sciences Activities Online writing of popularization articles, interviews Topics Marine biology, paleontology, paleoanthropology
2017 – 2021	<b>PhD Student</b> ENS Lyon & Institute of Evolution Sciences of Montpellier Project Physical and genetic factors impacting development and evolution of elasmobranch odontodes Methods microCT imaging, histology, machine learning and geometric morphometrics with R, functional tests on <i>Scyliorhinus canicula</i> embryos, comparative anatomy
2017	<b>Master Thesis</b> Univ. of Québec in Rimouski Project Regionalisation of the vertebral column in a skate Methods microCT imaging, clustering with R, Clear & Stain double coloration
2016	<b>Master Thesis</b> Oceanological Observatory of Banyuls-sur-mer Project Long-term experiment on growth dynamics of hydrothermal mussels <i>Bathymodiolus thermophilus</i> related to hydrothermal fluids dynamics Methods Sclerochronology, Fast Fourier Transform, Mutvei staining
2015	<b>Bachelor Thesis</b> Institute of Integrative Neurosciences, Bordeaux Project Effects of serotonin on aggressiveness of the invasive Louisiana crayfish <i>Procambarus clarkii</i> Methods Video tracking with EthoVision, ethology, functional tests on mature specimens

## Education

2017 – 2021	<b>PhD Studies</b> ENS Lyon & Institute of Evolution Sciences of Montpellier Evo-devo of chondrichthyans
2015 – 2017	<b>Master Studies (1/31)</b> European Institute for Marine Studies, Brest Littoral and Sea Sciences with focus on Marine ecosystems and Polar environments
2012 – 2015	<b>Bachelor Studies (1/60)</b> Univ. of Bordeaux Biology of Organisms and Ecosystems
2010 – 2012	<b>Bachelor Studies</b> Univ. of Montpellier Hypokhâgne & Khâgne – Literature studies (French and Spanish)

## Teaching

2022	<b>To Master &amp; PhD Students</b> Univ. of Vienna Functional Evolution of Jaw Structures
2019	<b>To Bachelor Students</b> Univ. of Montpellier Integrative Biology of Organisms and Comparative Anatomy
2019	<b>To High School Students</b> Univ. of Montpellier Embryo and Evolution
2018	<b>To Bachelor Students</b> Univ. of Montpellier Life Cycle of Organisms – Genetics

## Publications

Under review	<b>Ontogenetic plasticity in shoaling behavior in a forage fish under warming</b> <i>F. Berio, C. Morerod, X. Qi &amp; V. Di Santo</i> Integrative & Comparative Biology
Under Review	<b>A shark-inspired general model of tooth morphogenesis unveils developmental asymmetries in phenotype transitions</b> <i>R. Zimm, F. Berio, M. Debiais-Thibaud &amp; N. Goudemand</i> PNAS
2022	<b>Hide and seek shark teeth in Random Forests: Machine learning applied to <i>Scyliorhinus canicula</i></b> <i>F. Berio*, Y. Bayle*, D. Baum, N. Goudemand &amp; M. Debiais-Thibaud</i> PeerJ - Aquatic Biology
2022	<b>3D models related to the publication: Hide and seek shark teeth in Random Forests: Machine learning applied to <i>Scyliorhinus canicula</i></b> <i>F. Berio, Y. Bayle, S. Agret, D. Baum, N. Goudemand &amp; M. Debiais-Thibaud</i> MorphoMuseum
2022	<b>Early shape divergence of developmental trajectories in the jaw of galeomorph sharks</b> <i>F. A. López-Romero, F. Berio, D. Abed-Navandi &amp; J. Kriwet</i> Frontiers in Zoology
2021	<b>Phenotypic regionalization of the vertebral column in the thorny skate <i>Amblyraja radiata</i>: stability and variation</b> <i>F. Berio, Y. Bayle, C. Riley, O. Larouche &amp; R. Cloutier</i> Journal of Anatomy
2021	<b>Diversity and evolution of mineralised skeletal tissues in chondrichthyans</b> <i>F. Berio, M. Broyon, S. Enault, N. Pirot, F. A. López-Romero &amp; M. Debiais-Thibaud</i> Frontiers in Ecology and Evolution
2020	<b>The intraspecific diversity of tooth morphology in the large-spotted catshark <i>Scyliorhinus stellaris</i>: insights into the ontogenetic cues driving sexual dimorphism</b> <i>F. Berio, A. Evin, N. Goudemand &amp; M. Debiais-Thibaud</i> Journal of Anatomy
2020	<b>Scyland3D: Processing 3D landmarks</b> <i>F. Berio &amp; Y. Bayle</i> Journal of Open Science Software
2019	<b>Evolutionary developmental genetics of teeth and odontodes in jawed vertebrates: A perspective from the study of elasmobranch fishes</b> <i>F. Berio &amp; M. Debiais-Thibaud</i> Journal of Fish Biology

## Conferences

2022	<b>Oral presentation</b>	Online Edition
	Sharks International	
2020	<b>Oral presentation</b>	Online Edition
	ToScA Global	
2019	<b>Oral presentation</b>	France
	Comparative Cartilage Biology meeting	
2018	<b>Poster presentation</b>	France
	Evolution	
2018	<b>Poster presentation</b>	Ireland
	EuroEvoDevo	
2018	<b>Oral presentation</b>	France
	Symposium of Morphometry and Evolution of Forms	

## Scientific life

2019	<b>Meeting organization</b>	France
	Comparative Cartilage Biology meeting	
	<u>Tasks</u> Website maintenance, abstract book management, promotion on social media	
2017	<b>Public workshop</b>	Canada
	Evolution in colors	
	<u>Tasks</u> Design of activities, organization, popularization	