



Fidji Berio

- 30 years old
- 1, rue Gustave Violet
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- <https://fberio.github.io>
- 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

- Sept-Oct 2022 **Visiting professor** University of Vienna
Activities Research, Teaching
Topics Evo-Devo of chimaeras, Palaeontology, Teaching about the functional evolution of jaw structures
- 2021-present **Science communicator** Futura Sciences
Activities Online writing of popularization articles, interviews
Topics Marine biology, climate change, paleontology, paleoanthropology
- 2017 – 2021 **PhD Student** 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 *Scyliorhinus canicula* embryos, comparative anatomy
- 2017 **Master Thesis** 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 **Master Thesis** Oceanological Observatory of Banyuls-sur-mer
Project Long-term experiment on growth dynamics of hydrothermal mussels *Bathymodiolus thermophilus* related to hydrothermal fluids dynamics
Methods Sclerochronology, Fast Fourier Transform, Mutvei staining
- 2015 **Bachelor Thesis** Institute of Integrative Neurosciences, Bordeaux
Project Effects of serotonin on aggressiveness of the invasive Louisiana crayfish *Procambarus clarkii*
Methods Video tracking with EthoVision, ethology, functional tests on mature specimens

Education

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

Internship supervision

- 2019 **Master Student** Univ. of Montpellier
Project Can jaw cartilage curvature variation be related to tooth shape changes in *S. canicula*?
- 2019 **High School Student** Univ. of Montpellier
Project Discovery course about a Research Laboratory
- 2018 **Bachelor Student** ENS Lyon
Project Modelling the *S. canicula* jaw curvature with Python

Teaching

- 2019 **To Bachelor Students** Univ. of Montpellier
Integrative Biology of Organisms and Comparative Anatomy
- 2019 **To High School Students** Univ. of Montpellier
Embryo and Evolution
- 2018 **To Bachelor Students** Univ. of Montpellier
Life Cycle of Organisms – Genetics

Publications

2022	Hide and seek shark teeth in Random Forests: Machine learning applied to <i>Scyliorhinus canicula</i> <i>F. Berio*</i> , Y. Bayle*, D. Baum, N. Goudemand & M. Debiais-Thibaud PeerJ - Aquatic Biology
2022	3D models related to the publication: Hide and seek shark teeth in Random Forests: Machine learning applied to <i>Scyliorhinus canicula</i> <i>F. Berio</i> , Y. Bayle, S. Agret, D. Baum, N. Goudemand & M. Debiais-Thibaud MorphoMuseum
2022	Early shape divergence of developmental trajectories in the jaw of galeomorph sharks F. A. López-Romero, <i>F. Berio</i> , D. Abed-Navandi & J. Kriwet Frontiers in Zoology
2021	Phenotypic regionalization of the vertebral column in the thorny skate <i>Amblyraja radiata</i>: stability and variation <i>F. Berio</i> , Y. Bayle, C. Riley, O. Larouche & R. Cloutier Journal of Anatomy
2021	Diversity and evolution of mineralised skeletal tissues in chondrichthyans <i>F. Berio</i> , M. Broyon, S. Enault, N. Pirot, F. A. López-Romero & M. Debiais-Thibaud Frontiers in Ecology and Evolution
2020	The intraspecific diversity of tooth morphology in the large-spotted catshark <i>Scyliorhinus stellaris</i>: insights into the ontogenetic cues driving sexual dimorphism <i>F. Berio</i> , A. Evin, N. Goudemand & M. Debiais-Thibaud Journal of Anatomy
2020	Scyland3D: Processing 3D landmarks <i>F. Berio</i> & Y. Bayle Journal of Open Science Software
2019	Evolutionary developmental genetics of teeth and odontodes in jawed vertebrates: A perspective from the study of elasmobranch fishes <i>F. Berio</i> & M. Debiais-Thibaud Journal of Fish Biology

Conferences

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

Ongoing projects

Chimaeras	Husbandry conditions of spotted ratfish (<i>Hydrolagus colliet</i>) for successful embryonic development and long term survival of hatchlings Monitoring, Data science, Partnership with Planet Ocean Montpellier
Sharks	A theoretical shark tooth morphospace unveils developmental asymmetries in phenotype transitions Bead experiments, tooth development modelling

Scientific life

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