



Fidji Berio

- 29 years old
- 18, rue de Roqueblanque
34790 Grabels, France
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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

- 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, geometric morphometrics, functional tests on *Scyliorhinus canicula*, comparative anatomy
- 2017 **Master Thesis** Univ. of Québec in Rimouski
Project Regionalisation of the vertebral column in a skate
Methods microCT imaging, clustering, 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
Project Effects of serotonin on aggressiveness of the invasive Louisiana crayfish *Procambarus clarkii*
Methods Video tracking, ethology, functional tests

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
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

under review, 2022	Hide and seek shark teeth in Random Forests: Machine learning applied to <i>Scyliorhinus canicula</i> <i>F. Berio*</i> , <i>Y. Bayle*</i> , <i>D. Baum</i> , <i>N. Goudemand</i> & <i>M. Debiais-Thibaud</i> PeerJ
accepted, 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> , <i>Y. Bayle</i> , <i>S. Agret</i> , <i>D. Baum</i> , <i>N. Goudemand</i> & <i>M. Debiais-Thibaud</i> MorphoMuseum
2022	Early shape divergence of developmental trajectories in the jaw of galeomorph sharks <i>F. A. López-Romero</i> , <i>F. Berio</i> , <i>D. Abed-Navandi</i> & <i>J. Kriwet</i> 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> , <i>Y. Bayle</i> , <i>C. Riley</i> , <i>O. Larouche</i> & <i>R. Cloutier</i> Journal of Anatomy
2021	Diversity and evolution of mineralised skeletal tissues in chondrichthyans <i>F. Berio</i> , <i>M. Broyon</i> , <i>S. Enault</i> , <i>N. Pirot</i> , <i>F. A. López-Romero</i> & <i>M. Debiais-Thibaud</i> 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> , <i>A. Evin</i> , <i>N. Goudemand</i> & <i>M. Debiais-Thibaud</i> Journal of Anatomy
2020	Scyland3D: Processing 3D landmarks <i>F. Berio</i> & <i>Y. Bayle</i> 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> & <i>M. Debiais-Thibaud</i> Journal of Fish Biology

Conferences

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

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 viewed in colors <u>Tasks</u> Design of activities, organization, popularization	

Referees

	Mélanie Debiais-Thibaud melanie.debiais-thibaud@umontpellier.fr
	Nicolas Goudemand nicolas.goudemand@ens-lyon.fr
	Richard Cloutier richard_cloutier@uqar.ca