



Fidji Berio

PhD
Evo-Devo of Elasmobranchs

- 28 years old
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- fidji.berio
- <https://fberio.github.io>
- fidji.berio@gmail.com
- French Citizenship

Social Network

- Twitter
- ResearchGate
- Github
- Orcid

Languages

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

Hard Skills

- Comparative Anatomy
- Marine Biology
- R programming
- MicroCT imaging
- Histology
- Functional tests

Soft Skills

- Hard worker
- Team work
- Enthusiast
- Meticulous

Working Experience

- 2017 – 2021 **PhD Student** ENS Lyon & Institute of Evolution Sciences of Montpellier
Project Physical and genetic factors impacting the 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

- 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)

Publications

- 2021 **Diversity and evolution of mineralised skeletal tissues in chondrichthyans**
F. Berio, 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 *Scyliorhinus stellaris*: insights into the ontogenetic cues driving sexual dimorphism**
F. Berio, A. Evin, N. Goudemand & M. Debiais-Thibaud
Journal of Anatomy
- 2020 **Scyland3D: Processing 3D landmarks**
F. Berio & 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**
F. Berio & M. Debiais-Thibaud
Journal of Fish Biology

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Hobbies

Diving

 Level 2 FFESSM (Advanced PADI)

 Level 1 Nitrox

 PADI Freediver

DIY

 House building

 Gardening

Travel

 Touring

 Camping

Conferences

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

Sharks	Dental morphologies of teeth related to sex and ontogeny
	<u>Method</u> Geometric morphometrics
Sharks	Intrapopulational classification of tooth forms
	<u>Method</u> Machine Learning
Chimaeras	Life traits and husbandry in aquaria
	<u>Method</u> Monitoring

Internship supervision

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

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 the activities, organization, popularization	

Referees

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