



# Fidji Berio

PhD student  
Evo-Devo of Elasmobranchs

- 28 years old
- 18, rue de Roqueblanque  
34790 Grabels, France
- +33 679 971 358
- 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	<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	

## Ongoing projects

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

## Internship supervision

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

## Teaching

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	

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

## Referees

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