

CONTACT INFORMATION

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www.theophile-mouton.com<https://orcid.org/0000-0003-2571-5777><https://www.linkedin.com/in/théophile-l-mouton-2b25822a3/>**WORK EXPERIENCE**

- 2024 - 2025 **Self-employed, Montpellier - France**
Data science consultant
- 2023 - 2024 **International Union for the Conservation of Nature Species Survival Commission Shark Specialist Group, Montpellier - France (remote)**
Postdoctoral researcher, Scientific Coordinator
- 2020 - 2023 **Marine Biodiversity Exploitation and Conservation (Joint Research Unit), Montpellier - France**
PhD student
- 2021 - 2022 **Foundation for Research on Biodiversity (Center for the Synthesis and Analysis of Biodiversity), Montpellier – France**
Research scientist
- 2019 - 2020 **Institut of Research for the Exploitation of the Sea, Sète – France**
Research scientist
- 2017 - 2019 **National Institute for Water and Atmospheric Research, Hamilton - New Zealand**
Research assistant

EDUCATION

- 2020 - 2023 **University Claude Bernard Lyon I - France**
PhD in Macroecology
- 2014 - 2016 **University of Pau and Pays de l'Adour - France**
MSc in Dynamics of Aquatic Ecosystems
- 2012 - 2014 **University of Montpellier - France**
BSc in Ecology and Organisms Biology

PUBLICATIONS

- Peer-reviewed articles
- Mouton T.L.**, Gonzalez-Pestana A., Rohner C.A., Charles R., García-Rodríguez E., Kyne P.M., Batlle-Morera A., Notarbartolo di Sciara G., Armstrong A.O. et al. (2024). "[Shortfalls in the protection of Important Shark and Ray Areas undermine shark conservation efforts in the Central and South American Pacific](#)". *Marine Policy* 171: 106448.
- Pimiento C., C. Albouy, D. Silvestro, **T. L. Mouton**, L. Velez, D. Mouillot, A. B. Judah, J. N. Griffin and F. Leprieur (2023). "[Functional diversity of sharks and rays is highly vulnerable and supported by unique species and locations worldwide](#)". *Nature Communications* 14(1): 7691.

Théophile L. Mouton, PhD

Mouton T. L., F. Leprieur, M. Flourey, F. Stephenson, P. Verburg and J. D. Tonkin (2022). "[Climate and land-use driven reorganisation of structure and function in river macroinvertebrate communities.](#)" *Ecography*2022(3): e06148.

Mouton T. L., F. Stephenson, L. G. Torres, W. Rayment, T. Brough, M. McLean, J. D. Tonkin, C. Albouy and F. Leprieur (2022). "[Spatial mismatch in diversity facets reveals contrasting protection for New Zealand's cetacean biodiversity.](#)" *Biological Conservation* 267: 109484.

Stephenson F., A. A. Rowden, T. Brough, G. Petersen, R. H. Bulmer, J. R. Leathwick, A. M. Lohrer, J. I. Ellis, D. A. Bowden, S. W. Geange, G. A. Funnell, [...] **T. L. Mouton**, et al. (2022). "[Development of a Seafloor Community Classification for the New Zealand Region Using a Gradient Forest Approach.](#)" *Frontiers in Marine Science*8(792712).

Mouton T.L., J.D. Tonkin, F. Stephenson, P. Verburg, M. Flourey (2020). "[Increasing climate-driven taxonomic homogenization but functional differentiation among river macroinvertebrate assemblages.](#)" *Global Change Biology*. 00:1–12.

Stephenson F., J.E. Hewitt, L.G. Torres, **T.L. Mouton**, T. Brough, K.T. Goetz, C.J. Lundquist, A. B. MacDiarmid, J. Ellis, and R. Constantine (2021). "[Cetacean conservation planning in a global diversity hotspot: dealing with uncertainty and data deficiencies](#)". *Ecosphere* 12(7).

Stephenson F., K. Goetz, B.R. Sharp, **T.L. Mouton**, F.L. Beets, J. Roberts, A.B. MacDiarmid, R. Constantine and C.J. Lundquist (2020). "[Modelling the spatial distribution of cetaceans in New Zealand waters.](#)" *Diversity and Distributions* 26(4): 495-516.

Mouton T.L., F.E. Matheson, F. Stephenson, P. D. Champion, S. Wadhwa, M.P. Hamer, A. Catlin and T. Riis (2019). "[Environmental filtering of native and non-native stream macrophyte assemblages by habitat disturbances in an agricultural landscape.](#)" *Science of The Total Environment* 659: 1370-1381.

Scientific reports

Jabado R., P.M. Kyne, E. Garcia-Rodriguez, R. Charles, A.O. Armstrong, **T.L. Mouton**, A. Gonzales-Pestana, A. Battle-Morera, C.A. Rohner (2024). "[Western Indian Ocean: a regional compendium of Important Shark and Ray Areas.](#)" IUCN SSC Shark Specialist Group.

Jabado R., E. Garcia-Rodriguez, P.M. Kyne, R. Charles, A.O. Armstrong, J. Bortoluzzi, **T.L. Mouton**, A. Gonzales-Pestana, A. Battle-Morera, C.A. Rohner, G. Notarbartolo di Sciarra (2023). "[Mediterranean and Black Seas: a regional compendium of Important Shark and Ray Areas.](#)" IUCN SSC Shark Specialist Group.

Stephenson F., Goetz K., **Mouton T.L.**, Beets F., Hailes S., Roberts J., Pinkerton M., MacDiarmid A. (2020). "[Spatial distribution modelling of New Zealand cetacean species.](#)" Fisheries New Zealand. New Zealand Aquatic Environment and Biodiversity Report No. 240. 217 p.

Stephenson F, Rowden A., Anderson T., Hewitt J., Costello M., Pinkerton M., Morrison M., Clark M., Wadhwa S., **Mouton T.L.**, Lundquist C.J. (2018). "[Mapping Key Ecological Areas in the New Zealand Marine Environment: Data collation.](#)" Prepared for the Department of Conservation. November 2018.

Press release

Biodiversity of New Zealand's Rivers. Science 'snapshot'. Conservation Section, In Focus. **NatureVolve**. Issue 12, p32.

TALKS AND SEMINARS

2024	IUCN SSC Shark Specialist Group – Important Shark and Ray Areas Western Indian Ocean Region Workshop, Durban, South Africa Oral presentation
2023	IUCN SSC Shark Specialist Group – Important Shark and Ray Areas Mediterranean and Black Seas Region Workshop, Thessaloniki, Greece Oral presentation
2023	University Claude Bernard Lyon I , Villeurbanne, France Oral presentation, PhD defence
2020	Marine Biodiversity Exploitation and Conservation (Joint Research Unit) , Sète, France PhD student talk
2019	New Zealand Freshwater Sciences Society Conference , Hamilton, New Zealand Oral presentation

RELEVANT SKILLS

Languages	Native French, Fluent English, High Spanish
Data management	Collection, treatment, storage and analyses of diverse data types (e.g. data frame, raster, shapefile), skills in data processing and infrastructure workflows using R, Python, SQL and Git.
Programming	Advanced programming skills in R for data visualisation (markdown, quarto, tidyverse, package creation), statistical modelling (multivariate statistics, generalised modelling, machine learning prediction, classification and forecast) and other complementary tasks (e.g. text mining). Knowledge of web development programming (HTML, CSS, React).
GIS	Strong knowledge and use of QGIS, ArcGIS, ArcGIS Pro and Google Earth Engine for geospatial visualisation, analyses and development.
Project management	Use of notion software for remote work. Definition of objectives, tasks, timelines, coordination of deliverables, progress reporting, multidisciplinary approach from basic research to management.
Project coordination	Co-organizer of 4 international workshops involving > 250 participants, leadership experience and training, conflict resolution, multicultural and international teamwork. Communications using Slack and Mattermost.

MENTORING EXPERIENCE

2023	Adriana Gonzales Pestana , IUCN SSC SSG, Research assistant (1yr) Co-authored a manuscript published in <i>Marine Policy</i>
2022	Niam Smith , MSc student, MARBEC (6 month) Thesis: Effects of eutrophication on the benthic biodiversity of Mediterranean lagoons.