Valentin Lauret

Statistical ecology & social sciences
valentin.lauret@ens-lyon.fr

RESEARCH EXPERIENCE

Jan 2022- Ongoing
Postdoctoral researcher
Integrating ecological data on migratory birds and seabirds in the NW Mediterranean Sea
with Aurélien Besnard, CEFE-CNRS and France Energies Marines, funded by the French Office for Biodiversity

Sep 2018- Oct 2021
PhD thesis
Ecological monitoring in Marine Protected Areas of the French Mediterranean Sea, an interdisciplinary approach about bottlenose dolphins
with Olivier Gimenez, University of Montpellier, CEFE-CNRS

Jan - Jun 2018
Student research project
Exploring adaptive monitoring for protected areas
with Olivier Gimenez, University of Montpellier, CEFE-CNRS

Aug - Dec 2018
Student research project
Understanding human dimensions associated with rodent outbreaks in Spain
with Beatriz Arroyo, Robert Mougeot, and Miguel Delibes-Mateos, IREC-CSIC-UCLM

Jan - Jun 2017
Msc thesis
Using opportunistic and uncertain data to study wolf recolonization in France
with Julie Louvrier and Olivier Gimenez, CEFE-CNRS

Feb - Jun 2016
1st year Msc internship
Applying multi-scale habitat suitability models to the Mexican Spotted Owl in Southwestern USA
with Samuel A. Cushman and Ho Yi Wan, Rocky Mountain Research Station, U.S. Forest Service, Flagstaff, Arizona, USA

Jun - Aug 2015
Bsc internship
Citizen science and the urban flora of Scotland
with John Grace, University of Edinburgh, Botanical Society of Scotland, Edinburgh, Scotland

EDUCATION

2018-2021
PhD in Population biology and Ecology
University of Montpellier, France

2015-2017
Master degree in Biological sciences
Ecole Normale Supérieure de Lyon, University of Lyon, France

2014-2015
Bachelor degree in Geosciences, Paleontology, Evolution
Ecole Normale Supérieure de Lyon, University of Lyon, France

2012-2014
Preparatory classes for engineering schools
Biology, Chemistery Physics, Mathematics, and Earth Sciences
Lycée Joffre, Montpellier, France

2012
French high school diploma
Valence, France

PUBLICATIONS 𝓰

Lauret, V., Labach, H., Turek, D., Laran, S., & Gimenez, O. (2022). Integrated spatial models foster complementarity between monitoring programmes in producing large scale bottlenose dolphin indicators. *Animal Conservation*, 11. https://doi.org/10.1111/acv.12815

Lauret, V. (2021). *Étudier les suivis écologiques dans les Aires Marines Protégées de Méditerranée française : Une approche interdisciplinaire autour du grand dauphin* [PhD thesis, Université Montpellier]. https://tel.archives-ouvertes.fr/tel-03553990

Lauret, V., Labach, H., Authier, M., & Gimenez, O. (2021). Using single visits into integrated occupancy models to make the most of existing monitoring programs. *Ecology*. https://doi.org/10.1002/ecy.3535

Labach, H., Azzinari, C., Barbier, M., Cesarini, C., Daniel, B., David, L., Dhermain, F., Di-Méglio, N., Guichard, B., Jourdan, J., Lauret, V., Robert, N., Roul, M., Tomasi, N., & Gimenez, O. (2021). Distribution and abundance of common bottlenose dolphin (Tursiops truncatus) over the French Mediterranean continental shelf. *Marine Mammal Science*. https://doi.org/10.1111/mms.12874

Lauret, V., Delibes-Mateos, M., Mougeot, F., & Arroyo-Lopez, B. (2020). Understanding conservation conflicts associated with rodent outbreaks in farmland areas. *Ambio*, *49*(5), 1122–1133. https://doi.org/10.1007/s13280-019-01256-0

Wan, H. Y., McGarigal, K., Ganey, J. L., Lauret, V., Timm, B. C., & Cushman, S. A. (2017). Meta-replication reveals nonstationarity in multi-scale habitat selection of Mexican Spotted Owl. *The Condor*, *119*(4), 641–658. https://doi.org/10.1650/CONDOR-17-32.1

Louvrier, J., Duchamp, C., Lauret, V., Marboutin, E., Cubaynes, S., Choquet, R., Miquel, C., & Gimenez, O. (2017). Mapping and explaining wolf recolonization in France using dynamic occupancy models and opportunistic data. *Ecography*. http://onlinelibrary.wiley.com/doi/10.1111/ecog.02874/full

PREPRINTS

Lauret, V., Gimenez, O., Labach, H., & Lescureux, N. (2022). Behind the scene of ecological expertise: The place of monitoring for biodiversity workers in the French Mediterranean Marine Protected Areas. *SocArXiv*. https://doi.org/10.31235/osf.io/4875b

Lauret, V., Labach, H., David, L., Authier, M., & Gimenez, O. (2022). Using integrated multispecies occupancy models to map co-occurrence between bottlenose dolphins and fisheries in the Gulf of Lion, French Mediterranean Sea. *EcoEvoRxiv*. https://doi.org/10.32942/osf.io/npd6u

TALKS

2021
Euring Analytical Meeting
Integrated spatial model to produce large scale ecological indicators
Virtual meeting

2019
World Marine Mammals Conference
Combining multiple surveys increases precision and provide more reliable mapping of marine mammals distribution
Barcelona, Spain

2018
Pathways: Human Dimensions of Wildlife Conference
Using Q-method for understanding conservation conflicts: common voles in Spanish farmlands
Oral presentation performed by Beatriz Arroyo on my behalf
https://digital.csic.es/handle/10261/175502
Goslar, Germany

2021-2020-2018
French Ecostat Research Group
Scientific talks during yearly national meetings

AWARDS

2020
Best student talk price
EURING Analytical Meeting

2019
Field work grant
Young researcher grant from the French Society for Ecology and Evolution

TEACHING

2022
Biodiversity sampling
27h for 1st year Msc students in Biodiversity conservation
University of Montpellier

2021-2022
Internship jury for M1 Biodiversity management
University of Montpellier

2019
Leading stakeholders working groups to assess bottlenose dolphins conservation priorities in the Mediterranean Sea
INTERACT project with MIRACETI NGO

2019, 2020, 2021
Teaching photo-identification monitoring of bottlenose dolphins to Marine Protected Areas managers of the French Mediterranean Sea
TURSMED projects with MIRACETI NGO, French Mediterranean Sea

2018-2019
2019-2020
Ecology, concepts and methods
40h for 2nd year Bsc students in Population biology
University of Montpellier

2018-2019
2019-2020
Data processing and biostatistics for biologists
32h for 1st year Msc students in Ecology and Evolution
University of Montpellier

OTHER SKILLS

FIELD WORK

2021 - Ongoing
Pyrenean brown bear monitoring
Member of national bear network of the French Biodiversity Office
French Pyrénées

2019, 2020, 2021
Bottlenose dolphins photo-identification expedition
3 weeks at-sea for marine mammals monitoring
French Mediterranean Sea

2018
Leading social interviews
with farmers, hunters, conservationists, and members of local government
Castilla y Léon, Spain

2017
Monitoring Mexican Spotted Owl
nesting sites in the Grand Canyon National Park
Arizona, USA

LANGUAGES
French, English, and Spanish

COMPUTER AND CODE
Advanced R
Bayesian statistics
Spatial ecology and GIS with R
Basics of Python and Matlab
Reproductible science and code: Git, Markdown/Quarto, Latex
MCMC methods with JAGS and NIMBLE