Valentin Lauret

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PhD student
statistical ecology and social sciences
University of Montpellier, CEFE - CNRS lab

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research interests

My research focus on applied biodiversity conservation, with a particular interest in interdisciplinary approaches using statistical ecology and social sciences to work with managers and public policies.

experience

2018 - 2021 PhD Thesis

with Olivier Gimenez,
University of Montpellier, CEFE-CNRS
Montpellier, France

Linking statistical ecology and social sciences to investigate how to perform efficient bottlenose dolphin monitoring in the french Mediterranean marine protected areas network

- Building statistical tools to integrated data from different monitoring programs about bottlenose dolphins.
- Investigating social dimensions of monitoring in protected areas.
- Joint work with NGOs, managers, and public institutions.

2018 Jan-Jul

with Olivier Gimenez,
University of Montpellier, CEFE-CNRS
Montpellier, France

Exploring adaptive management for protected areas

- Building an adaptive monitoring framework aiming at optimizing survey effort across a network of protected areas

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2017 Sept-Dec

with Beatriz Arroyo, François Mougeot, and Miguel Delibes-Mateos
IREC-CSIC, Ciudad Real, Spain

Understanding conservation conflicts associated with rodent outbreaks in Spain

- Leading Q-methodology interviews to identify stakeholders' viewpoints and highlight shared opinions about rodent outbreaks and their management

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2017 Jan-Jun MSc Thesis

with Julie Louvrier and Olivier Gimenez
University of Montpellier, CEFE-CNRS
Montpellier, France

Using opportunistic and uncertain data to study wolf recolonization in France

- Extending dynamic occupancy models to account for misidentification and include uncertain data about wolf recolonization in France

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2016 Feb-Jun

with Samuel A. Cushman and Ho Yi Wan
Rocky Mountain Research Station,
US Forest Service, Flagstaff, Arizona, USA

Applying multi-scale habitat suitability models to the Mexican Spotted Owl in Southwestern USA

2015 Jun-Aug

with John Grace
Univeriity of Edinburgh, Botanical Society of Scotland, Edinburgh, Scotland

Building a citizen science guide of the urban flora of Scotland

- Inventory of urban flora of Edinburgh and constrution of identification key for citizen science

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2014 Oct-Apr

with Jean Trap,
Eco&Sols, French National Institue for Sustainable Development, Montpellier, France

Optimizing phosphorus transfer from the soil to the plant exploring agro-ecological strategies

education

2016-2017 Lyon, France	Master degree in Biological sciences Ecole Normale Supérieure de Lyon, University of Lyon
2015 Lyon, France	Bachelor in Geosciences, Paleontology, Evolution Ecole Normale Supérieure de Lyon, University of Lyon
2012-2014 Montpellier, France	Preparatory classes for engineering schools Lycée Joffre,
2012 Valence, France	French high school diploma

additional skills

ecological modelling and statistics

Experience with occupancy models,
spatial catpure,recapture,
distance sampling, adaptive management,
and structured decision making
Bayesian statistics

scientific field work experience

2019-2020, French Mediterranean Sea
Bottlenose dolphins photo-identification,
3 weeks at-sea monitoring expedition including teaching to marine protected areas managers.

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

2017, Arizona, USA
Monitoring spotted owl nesting sites in Grand Canyon National Park

computer and code

Advanced R programming
spatial ecology and GIS with R
Basics of Python, Matlab
Reproductible science and code with Markdown and Git
MCMC with JAGS and NIMBLE

languages

French, English, Spanish

volunteering

Since 2018
Opti-Pousse Haie, working with local communities to enhance ecological and agricultural sustainability in NW Madagascar,
2 months mission in 2018
Analalava, Région Sofia, Madagascar

Since 2019
Member of the Human Rights League
Montpellier, France

teaching experience

2019
INTERACT project, MIRACETI NGO
Nice, France

Organizing inter-professionnal working groups to identify bottlenose dolphin prorities in the French Mediterranean Sea

2018-2019
University of Montpellier

Ecology, concepts and methods
40h/y for 2nd year Bsc students in Population biology
Conducting experimental ecology projects, discovering concepts of ecology, population biology, evolution

2018-2019
University of Montpellier

Basics in data processing and biostatistics for biologists,
32h/y for 1st year Msc students in Ecology and Evolution
Initiation to statistics, R programming, linear models

publications

Available on Scholar or ResearchGate

Valentin Lauret, Hélène Labach, Matthieu Authier, Olivier Gimenez, (in revision), Using single visits for integrated occupancy models to make the most of existing monitoring programs, in review, https://doi.org/10.1101/848663

[1] Valentin Lauret, Miguel Delibes-Mateos, François Mougeot, Beatriz Arroyo (2019), Understanding conservation conflicts associated with rodentoutbreaks in farmland areas. Ambio, https://doi.org/10.1007/s13280-019-01256-0

[2] Julie Louvrier, Christophe Duchamp, Valentin Lauret, Eric Marboutin, Sarah Cubaynes, Rémi Choquet, Christian Miquel, Olivier Gimenez (2018), Mapping and explaining wolf recolonization in France using dynamic occupancy models and opportunistic data. Ecography, 41: 647-660. https://doi.org/10.1111/ecog.02874

[3] Ho Yi Wan, Kevin McGarigal, Joseph L. Ganey, Valentin Lauret, Brad C. Timm, Samuel A. Cushman (2017), Meta-replication reveals nonstationarity in multi-scale habitat selection of Mexican Spotted Owl, The Condor, Volume 119, Issue 4, 1 November 2017, Pages 641–658, https://doi.org/10.1650/CONDOR-17-32.1

talks

2019
World Marine Mammals Conference
Barcelona, Spain

Combining multiple surveys increases precision and provide more reliable mapping of marine mammls distribution

2018
Pathways: Human Dimensions of Wildlife Conference
Goslar, Germany

Using Q-methodology for understanding conservation conflicts: common voles in Spanish farmlands
Oral presenation performed by Beatriz Arroyo on my behalf at https://digital.csic.es/handle/10261/175502