# Victor Cazalis victor.cazalis@laposte.net

www.conservara.fr

## Data scientist in conservation biology

Focus on global conservation policies, biodiversity loss monitoring and human-nature connection

#### Academic excellence

16 publications (9 as lead author)

#### Naturalist Birds and Rhopalocera

**Strong analytic skills** Analysing large databases (eg eBird) in R, statistics, GIS Communication Academic writing, outreach, press release

## Education

Sept 2016 Jun 2017	MSc (2nd year) in Theoretical Ecology and Modelling National Museum of Natural History, Paris - France	"Ecologie Théorique et Modélisation"
Sept 2015 Jun 2016	<b>MSc (1st year) in Ecological Modelling</b> University of Rennes 1 - France	"Modélisation en Ecologie"
Sept 2011 Jun 2014	<b>BSc in Ecology and Biology of Organisms</b> University of Montpellier - France	"Ecologie et Biologie des Organismes"

## Scientific experience

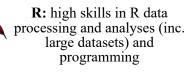
Feb 2023 now	<b>Self-employment:</b> Bridging research implementation gaps in conservation by making useful methods and data available to conservation practitionners. www.conservara.fr <i>Conservara (Conservation Analyst for Research Application)</i>	
Feb 2021 Jan. 2023	<b>Post-doc:</b> Accelerating IUCN Red List assessments for rapid and effective biodiversity monitoring (sRedList synthesis Working Group). Leading research projects, animation of the Working Group, conception of an online platform to support assessments. <i>German Centre for Integrative Biodiversity Research (iDiv), Leipzig - Germany</i>	Luca Santini Moreno Di Marco
Oct 2017 Nov 2020	<b>PhD:</b> How much difference are protected areas making in conservation? - large citizen science analyses, spatial analyses on land cover and protected areas, international conservation. Grant from the University of Montpellier. <i>Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier - France.</i> Awarded on the 9 M	
Jan 2017 Jun 2017	<b>MSc (2nd year) research project:</b> Theoretical dynamic modelling of the interaction between human demography and ecosystem services. Resulted in 1 publication <i>Centre for Biodiversity and Theoretical Modelling, Moulis - France</i>	Kirsten Henderson Michel Loreau
Apr 2016 Jul 2016	<b>MSc (1st year) research project:</b> Impact of the creation of a highspeed railway on a population of stone curlews, <i>Burhinus oedicnemus</i> , in the "Costières de Nîmes" area. <i>Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier - France</i>	Pierrick Devoucoux Aurélien Besnard
Aug 2014 Oct 2014	<b>Fieldwork volunteering:</b> Use of magnetic cues in willow warbler's ( <i>Phylloscopus trochilus</i> ) migration - bird catching and caring, behavioural experiments. <i>Centre for Animal Movement Research, Lund - Sweden</i>	Mihaela Ilieva Susanne Åkesson

## Peer-reviewed publications

2023	Mancini G., Santini L., <b>Cazalis V.,</b> [], Di Marco M. An approach for including climate change response in IUCN Red List assessments. <i>Submitted at Conservation Biology</i> .
2023	Henry E., [], <b>Cazalis V.*</b> , Di Marco M.*. Modelling the probability of meeting IUCN Red List criteria to support reassessments. <i>Submitted at Global Change Biology.</i> * <i>Equal contributions</i>
2023	Lucas P.M., Di Marco M., Cazalis V., [], Santini L. Testing the predictive performance of comparative extinction risk models to support the global amphibian assessment. <i>Under review at Conservation Biology</i> .
2023	<b>Cazalis V.,</b> Santini L., [], Di Marco M. Prioritizing the reassessment of Data Deficient species in the Red List. <i>Accepted at Conservation Biology</i>
2023	<b>Cazalis V.,</b> Loreau M., Barragan-Jason G. Is the extinction of experience a reality? A global synthesis of trends in human interactions with nature. <i>Frontiers in Ecology and the Environment 21(2): 85-93.</i> Link
2022	<b>Cazalis V.,</b> Di Marco M., [], Santini L. Bridging the research-implementation gap in IUCN Red List assessments. <i>Trends in Ecology and Evolution 37(4): 359-370.</i> Link
2022	<b>Cazalis V.</b> Species richness response to human pressure hides important assemblage transformations. <i>Proceedings of the National Academy of Sciences 119(19): e2107361119.</i> Link
2021	<b>Cazalis V.</b> , Barnes M.D., Johnston A., Watson J.E.M., Şekercioğlu C., Rodrigues A.S.L. (2021). Mismatch between bird species sensitivity and protection of intact habitats across the Americas. <i>Ecology Letters</i> 24(11): 2394-2405. Link
2021	Bernard A., Rodrigues A.S.L., Cazalis V., Grémillet D. (2021). Towards a global strategy for seabird tracking. <i>Conservation Letters 14(3) e12804</i> . Link
2020	Rodrigues A.S.L., <b>Cazalis V.</b> (2020). The multifaceted challenge of evaluating protected area effectiveness. <i>Nature Communications 11:5147</i> . Link
2020	Maxwell S.L., Cazalis V., [], Watson J.E.M. (2020). Area-based conservation in the twenty-first century. <i>Nature 586: 217-227</i> . Link
2020	<b>Cazalis V.,</b> Princé K., Mihoub JB., Kelly J., Butchart S.H.M., Rodrigues A.S.L. (2020). Effectiveness of protected areas in conserving tropical forest birds. <i>Nature Communications</i> 11:4461. Link
2020	Gaget E., Le Viol I., Pavón-Jordán D., <b>Cazalis V.,</b> [], Galewski T. (2020). Assessing the effectiveness of the Ramsar Convention in preserving wintering waterbirds in the Mediterranean. <i>Biological Conservation</i> 243: 108485. Link
2019	<b>Cazalis V.,</b> Prévot AC. (2019). Are protected areas effective in conserving human connection with nature and enhancing pro-environmental behaviours? <i>Biological Conservation 236: 548-555</i> . Link
2019	<b>Cazalis V.,</b> Belghali S., Rodrigues A.S.L. (2021). Using a large-scale biodiversity monitoring dataset to test the effectiveness of protected areas in conserving North-American breeding birds. <i>Peer Community Journal 1 e3.</i> [The article was recommended by PCI in 2019 and integrated in an issue in 2021 only] Link
2018	<b>Cazalis V.,</b> Loreau M., Henderson K. (2018). Do we have to choose between feeding the human population and conserving nature? Modelling the global dependence of people on ecosystem services. <i>Science of the total environment 634: 1463-1474.</i> Link

# Scientific skills

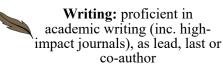
## Analytical



GIS: advanced skills using QGis for visualisation and R for analyses (shp and rasters; use of the *sf* package)

Statistics: GLMs, GAMs, mixed models, spatial analyses (GWR), basics in Bayesian statistics

### Communication

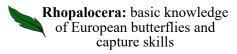


Graphics: advanced skills in R complex graphics (ggplot, maps), Inkscape, LaTeX

Outreach: strong interest for years (lectures, journal articles, naturalist books, bird tours), press release during the PhD (national news, radio)

#### Naturalist

Birds: Proficient field ornithologist for European birds (visual and auditive identification)



Fieldwork: standardised bird monitoring, bird ringing assistant, bird migration counts

#### CV - Victor Cazalis - 2/4

## Science-policy interface

2021 now	<b>Development and maintenance</b> of the sRedList platform, an online tool to support IUCN Red List assessment through automated analyses. In charge of coding the background analyses (in R), designing the platform front, creating the documentation, community building with assessors.
2022	Red List assessor: Online training and exam. Currently one assessment submitted.
2021	<b>Delegate</b> to the Open-end Working Group 3 on the Post-2020 Global Biodiversity Framework for the German Center for Integrative Biodiversity Research (iDiv). <i>Online. 23 Aug 3 Sep. 2021.</i>

## **Technical publications**

2019 **COGard (2019).** Atlas des oiseaux du Gard, enquête 2009-2017. COGard, Saint-Chaptes, 400p. Atlas of the birds of the Gard, participation in fieldwork (2012-2016), coordination, and writing (22 species monographs and general chapters).

**Cazalis V.,** Devoucoux P., Besnard A. (2016). Analyse de la sélection de l'habitat chez l'Oedicnème criard (*Burhinus oedicnemus*) dans le contexte de la construction de la ligne TGV en Costières nîmoises. *Report to the Regional Direction of the Environment and Land Management (DREAL)*, Montpellier, 29p.

## Scientific oral presentations

2022	<b>Cazalis V.</b> Protected areas: are current policies effectively conserving nature? <i>Invited seminar at the EDB lab, Toulouse - France</i> , 11th of January 2022
2021	<b>Cazalis V.</b> New empirical evidence on humans' effect on assemblage species richness. <i>Talk at the SCCS New-York</i> , 6th of October 2021
2021	<b>Cazalis V.</b> Unravelling ecological thresholds in human impact on species richness. <i>Short talk at the BES Macro conference</i> , 7th of July 2021
2021	<b>Cazalis V.</b> Protected area effectiveness: using eBird data to evaluate conservation actions. <i>Invited seminar</i> at the Cornell Lab of Ornithology, US, 12th of March 2021
2021	<b>Cazalis V.</b> Effectiveness of protected areas: is the cornerstone of biodiversity conservation really enabling the protection of nature? <i>Invited seminar at the CESCO-MNHN, Paris - France</i> , 8th of February 2021
2020	<b>Cazalis V.</b> Effectiveness of protected areas: is the cornerstone of biodiversity conservation really enabling the protection of nature? <i>Invited seminar at the SETE, Moulis - France</i> , 30th of November 2020
2019	<b>Cazalis V.,</b> Prévot AC. Are protected areas enhancing pro-environmental behaviours? <i>Student Conference on Conservation Science, Cambridge - UK</i> , 26th of March 2019
2019	<b>Cazalis V.</b> Are protected areas effective at conserving bird species and at enhancing human pro- environmental behaviours? <i>Invited seminar at the Tour du Valat, Arles - France</i> , 11th of March 2019
2018	<b>Cazalis V.,</b> Belghali S., Rodrigues A.S.L. Investigating protected areas effectiveness using North- American BBS. International Conf. on Ecological Science, SEE2 Rennes - France, 24th of October 2018

## Outreach

0000	Media: press release following Cazalis et al. (2022, FEE) resulting in press articles (e.g., L'Express, le
2022	<b>Media:</b> press release following Cazalis et al. (2022, FEE) resulting in press articles (e.g., L'Express, le Parisien, Popular Science), radio outlets (e.g., France Culture).
2021	<b>Outreach:</b> Writing two articles in a French conservation management journal (Courrier de la Nature), on Aichi Target 11 and on the post-2020 Global Biodiversity Framework.
2020	<b>Media:</b> press release following Cazalis et al. (2020) resulting in 2 press articles. French press release following Maxwell et al. (2020), resulting in a press article in national news (Le Monde).
2019	<b>Media:</b> press release following Cazalis and Prévot (2019); resulted in 7 press articles (systematically following an interview), 4 radio interviews, 3 presentations for policy makers.
2013 now	<b>Outreach activities:</b> lectures (11 events on bird migration), activities in highschools (5 events), activities in schools (7 events), birding tours (8 events), Festival of Science (2 events), local journals (12 articles).

# Teaching

2021	Lecture on writing a cover letter for academic journal submission. <i>iDiv</i> , PhD students.	6 hours
2019 2020	Lectures in Conservation Biology for Master's students in University of Montpellier	10 hours
2018 2019	Teaching assistant in Statistics for ecology for Bachelor students in University of Montpellier	24 hours

## Student supervision

Main supervisor of a Master's internship in Conservation Biology: Predicting species extinction risk using statistical models.	5 months
<b>Main supervisor</b> of a Master's internship in Conservation Biology: Relative effectiveness of urban protected areas in conserving bird species from Latin America.	2 months
<b>Main supervisor</b> of a Master's internship in Conservation Psychology: Which landscape characteristics enhance the adoption of pro-environmental behaviours by local inhabitants?	2 months
Main supervisor of a Master's internship in Conservation Biology: Are protected areas effective in conserving European butterfly communites?	3 months
l l l c	<ul><li>Main supervisor of a Master's internship in Conservation Biology: Relative effectiveness of urban protected areas in conserving bird species from Latin America.</li><li>Main supervisor of a Master's internship in Conservation Psychology: Which landscape characteristics enhance the adoption of pro-environmental behaviours by local inhabitants?</li></ul>

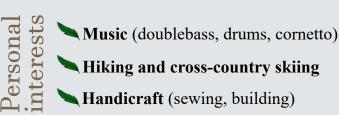
## Reviews

<sup>2018</sup> 35 reviews for *Nature, Biological Conservation, Conservation Biology, Nature Communications, Methods in Ecology and Evolution, etc.* Publons profile here



Aptitude and appetite for team working

Lab involvement (2019-2020: Students delegate at the lab board (CEFE); 2022: Chair of the scientific seminars series (iDiv)





Driving licence

**Languages:** French (native), English (fluent), German (basics), Spanish (basics)