

Victor Cazalis

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

Scientific experience

Feb 2023 now	Self-employment: Bridging research implementation gaps in conservation by making useful methods and data available to conservation practitioners. www.conservara.fr <i>Conservara (Conservation Analyst for Research Application)</i>	
Feb 2021 Jan. 2023	Post-doc: 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	PhD: 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. Awarded on the 9 November 2020.</i>	Ana S.L. Rodrigues
Jan 2017 Jun 2017	MSc (2nd year) research project: 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	MSc (1st year) research project: 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	Fieldwork volunteering: 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., Cazalis V. , [...], Di Marco M. An approach for including climate change response in IUCN Red List assessments. <i>Submitted at Conservation Biology</i> .
2023	Henry E., [...], Cazalis V.* , Di Marco M.*. Modelling the probability of meeting IUCN Red List criteria to support reassessments. <i>Submitted at Global Change Biology</i> . * Equal contributions
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	Cazalis V. , Santini L., [...], Di Marco M. Prioritizing the reassessment of Data Deficient species in the Red List. <i>Accepted at Conservation Biology</i>
2023	Cazalis V. , 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</i> 21(2): 85-93. Link
2022	Cazalis V. , Di Marco M., [...], Santini L. Bridging the research-implementation gap in IUCN Red List assessments. <i>Trends in Ecology and Evolution</i> 37(4): 359-370. Link
2022	Cazalis V. Species richness response to human pressure hides important assemblage transformations. <i>Proceedings of the National Academy of Sciences</i> 119(19): e2107361119. Link
2021	Cazalis V. , 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</i> 14(3) e12804. Link
2020	Rodrigues A.S.L., Cazalis V. (2020). The multifaceted challenge of evaluating protected area effectiveness. <i>Nature Communications</i> 11:5147. Link
2020	Maxwell S.L., Cazalis V. , [...], Watson J.E.M. (2020). Area-based conservation in the twenty-first century. <i>Nature</i> 586: 217-227. Link
2020	Cazalis V. , Princé K., Mihoub J.-B., 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., Cazalis V. , [...], 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	Cazalis V. , Prévot A.-C. (2019). Are protected areas effective in conserving human connection with nature and enhancing pro-environmental behaviours? <i>Biological Conservation</i> 236: 548-555. Link
2019	Cazalis V. , 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</i> 1 e3. [The article was recommended by PCI in 2019 and integrated in an issue in 2021 only] Link
2018	Cazalis V. , 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</i> 634: 1463-1474. Link

Scientific skills

Analytical



R: high skills in R data processing and analyses (inc. large datasets) and programming



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



Writing: proficient in academic writing (inc. high-impact journals), as lead, last or co-author



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)



Rhopalocera: basic knowledge of European butterflies and capture skills



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

Science-policy interface

2021 now	Development and maintenance 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	Delegate 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. <i>Atlas of the birds of the Gard, participation in fieldwork (2012-2016), coordination, and writing (22 species monographs and general chapters).</i>
2016	Cazalis V., Devoucoux P., Besnard A. (2016). Analyse de la sélection de l'habitat chez l'Oedicnème criard (<i>Burhinus oedicanus</i>) dans le contexte de la construction de la ligne TGV en Costières nîmoises. <i>Report to the Regional Direction of the Environment and Land Management (DREAL), Montpellier, 29p.</i>

Scientific oral presentations

2022	Cazalis V. Protected areas: are current policies effectively conserving nature? <i>Invited seminar at the EDB lab, Toulouse - France, 11th of January 2022</i>
2021	Cazalis V. New empirical evidence on humans' effect on assemblage species richness. <i>Talk at the SCCS New-York, 6th of October 2021</i>
2021	Cazalis V. Unravelling ecological thresholds in human impact on species richness. <i>Short talk at the BES Macro conference, 7th of July 2021</i>
2021	Cazalis V. Protected area effectiveness: using eBird data to evaluate conservation actions. <i>Invited seminar at the Cornell Lab of Ornithology, US, 12th of March 2021</i>
2021	Cazalis V. 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, 8th of February 2021</i>
2020	Cazalis V. Effectiveness of protected areas: is the cornerstone of biodiversity conservation really enabling the protection of nature? <i>Invited seminar at the SETE, Moulis - France, 30th of November 2020</i>
2019	Cazalis V., Prévot A.-C. Are protected areas enhancing pro-environmental behaviours? <i>Student Conference on Conservation Science, Cambridge - UK, 26th of March 2019</i>
2019	Cazalis V. 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, 11th of March 2019</i>
2018	Cazalis V., Belghali S., Rodrigues A.S.L. Investigating protected areas effectiveness using North-American BBS. <i>International Conf. on Ecological Science, SFE2, Rennes - France, 24th of October 2018</i>

Outreach

2022	Media: 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	Outreach: 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	Media: 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	Media: 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	Outreach activities: lectures (11 events on bird migration), activities in highschoools (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 <i>University of Montpellier</i>	10 hours
2018 2019	Teaching assistant in Statistics for ecology for Bachelor students in <i>University of Montpellier</i>	24 hours

Student supervision

2022	Main supervisor of a Master's internship in Conservation Biology: Predicting species extinction risk using statistical models.	5 months
2020	Main supervisor of a Master's internship in Conservation Biology: Relative effectiveness of urban protected areas in conserving bird species from Latin America.	2 months
2019	Main supervisor of a Master's internship in Conservation Psychology: Which landscape characteristics enhance the adoption of pro-environmental behaviours by local inhabitants?	2 months
2018	Main supervisor of a Master's internship in Conservation Biology: Are protected areas effective in conserving European butterfly communities?	3 months

Reviews

2018 now	35 reviews for <i>Nature</i> , <i>Biological Conservation</i> , <i>Conservation Biology</i> , <i>Nature Communications</i> , <i>Methods in Ecology and Evolution</i> , etc. Publons profile here
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Social skills

-  **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))

Personal interests

-  **Music** (doublebass, drums, cornetto)
-  **Hiking and cross-country skiing**
-  **Handicraft** (sewing, building)

Others

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