

# Victor Cazalis

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## Junior researcher in conservation biology

Focus on international conservation in birds, protected areas, and interests in social sciences

### Academic career

9 publications (5 as lead author)

### Strong analytic skills

Analysing large databases (eg eBird) in R, statistics, GIS

### Naturalist

Birds and Rhopalocera

### Communication

Academic writing, outreach, press release

## Education

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

## Research experience

Feb 2021 Jan. 2023	<b>Post-doc:</b> Accelerating IUCN Red List assessments for rapid and effective biodiversity monitoring. <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 (eBird, BBS, PECBMS) 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	<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 - fieldwork, data analyses (distance sampling, site occupancy and N-mixture models). <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
Sept 2014 Sept 2015	<b>Volunteering:</b> Basic data analyses for bird ringing stations (Gedser, Falsterbo) and an NGO (COGard).	

# Peer-reviewed publications

In prep.	Huot L., Rodrigues A.S.L., Edwards D.P., <b>Cazalis V.</b> Urban protected areas retain tropical forest bird species but less than non-urban ones. <i>In prep.</i>
In prep.	<b>Cazalis V.</b> , di Marco M., [...], Santini L. Bridging the research-implementation gap in IUCN Red List assessments. <i>In prep.</i>
In prep.	<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>In prep.</i>
Maj. rev.	<b>Cazalis V.</b> An ecological threshold in human pressure impact on species richness. <i>In major revision in PNAS.</i>
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> .
2021	Bernard A., Rodrigues A.S.L., <b>Cazalis V.</b> , Grémillet D. (2021). Towards a global strategy for seabird tracking. <i>Conservation Letters</i> 14(3) e12804.
2020	Rodrigues A.S.L., <b>Cazalis V.</b> (2020). The multifaceted challenge of evaluating protected area effectiveness. <i>Nature Communications</i> 11:5147.
2020	Maxwell S.L., <b>Cazalis V.</b> , [...], Watson J.E.M. (2020). Area-based conservation in the twenty-first century. <i>Nature</i> 586: 217-227.
2020	<b>Cazalis V.</b> , 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.
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.
2019	<b>Cazalis V.</b> , 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.
2019	<b>Cazalis V.</b> , Belghali S., Rodrigues A.S.L. (2019). Using a large-scale biodiversity monitoring dataset to test the effectiveness of protected areas in conserving North-American breeding birds. <i>BioRxiv</i> , 433037, ver.4 peer-reviewed and recommended by PCI Ecology.
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</i> 634: 1463-1474.

# Technical publications

2019	<b>COGard (2019).</b> 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	<b>Cazalis V.</b> , Devoucoux P., Besnard A. (2016). Analyse de la sélection de l'habitat chez l'Oedicnème criard ( <i>Burhinus oedicnemus</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)</i> , Montpellier, 29p.

# 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 auditory identification)

 **Rhopalocera:** basic knowledge of European butterflies and capture skills

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

# Scientific oral presentations

2021	Cazalis V. Unravelling ecological thresholds in human impact on species richness. <i>Short talk at the BES Macro conference</i> , 7th of July 2021
2021	Cazalis V. Protected area effectiveness: using eBird data to evaluate conservation actions. <i>Invited seminar at the Cornell Lab of Ornithology, US</i> , 12th of March 2021
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</i> , 8th of February 2021
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</i> , 30th of November 2020
2019	Cazalis V., Prévot A.-C. Are protected areas enhancing pro-environmental behaviours? <i>Student Conference on Conservation Science, Cambridge - UK</i> , 26th of March 2019
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</i> , 11th of March 2019
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</i> , 24th of October 2018

## Outreach

2020	<b>Media:</b> press release following Cazalis et al. (2020) resulting in 2 press articles. Press release in France 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).
2013	<b>Outreach articles:</b> writing of 12 species monographic articles for a local monthly journal (Le Grillon).

## Teaching and supervising

2020	<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
2019 2020	<b>Lectures</b> in Conservation Biology for Master's students in <i>University of Montpellier</i>	10 hours
2019	<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
2018 2019	<b>Teaching assistant</b> in Statistics for ecology for Bachelor students in <i>University of Montpellier</i>	24 hours
2018	<b>Main supervisor</b> of a Master's internship in Conservation Biology: Are protected areas effective in conserving European butterfly communities?	3 months

## Reviews

2018 2021	13 reviews for <i>Biological Conservation</i> , <i>Nature Communications</i> , <i>Diversity and Distribution</i> , <i>Conservation Biology</i> , etc. Publons profile: <a href="https://publons.com/researcher/1605670/victor-cazalis/">https://publons.com/researcher/1605670/victor-cazalis/</a>
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## Social skills

- ❖ **Aptitude and appetite for team working**
- ❖ **Lab involvement** (Students delegate at the lab board ("Conseil de laboratoire"), co-organiser of Students seminars)
- ❖ **Non-violent communication** (Basics)

## Personal interests

- ❖ **Music** (doublebass, singer, drums, piano)
- ❖ **Hiking and cross-country skiing**
- ❖ **Circus** (juggling, flying trapeze)
- ❖ **Handicraft** (sewing, building, drawing)

## Others



Driving licence



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