

BENJAMIN CRETOIS

I am currently working as a data scientist at the Norwegian Institute for Nature Research. My work focuses primarily on developing machine learning models to analyze camera traps images and sound records.



PROFESSIONAL EXPERIENCE

Current
|
2021

Data Scientist

Norwegian Institute for Nature Research

📍 Trondheim, Norway

- Using deep learning methods for image and sound classification
- Supporting researchers in their analysis using statistics and machine learning methods

2013
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2011

Sergeant in the French Navy (Marine infantry)

Marine Francaise

📍 Brest, France

- Leading and managing a team of 6 soldiers to secure military bases
- Training for special forces (Commandos Marine)

EDUCATION

2021
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2018

PhD in Spatial Data Analysis

Norwegian University of Science & Technology

📍 Trondheim, Norway

- Finding methods to improve the use of Citizen Science data
- Managing master students' projects
- Teaching and building websites for [statistic](#) and [GIS courses](#) at the department of Geography

2018
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2016

M.Sc., Environment and Law

Université de Rennes I

📍 Rennes, France

- Thesis: "The revival of wolves and other large carnivores and their impact on the livelihood of rural communities"
- Basic of database management (Microsoft Access and SQL)

2016
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2013

B.S., Ecology and Evolution

Université de Rennes I

📍 Rennes, France

Infantry School of Lorient

French Navy

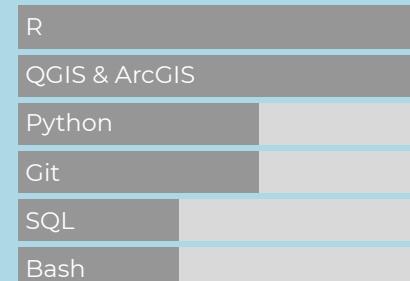
📍 Lorient, France

- Learning how to manage a team of soldiers
- First aid, thinking in harsh conditions

CONTACT

- ✉ benjamin.cretois@nina.no
🐦 [benjamincretois](#)
🔗 [github.com/BenCretois](#)
🔗 [benjamincretois.netlify.app](#)
🎓 [Benjamin Cretois](#)

SKILLS



LANGUAGES



RESEARCH EXPERIENCE

- 2018
- **Research Assistant**
Norwegian Institute for Nature Research 📍 Trondheim, Norway
 - Helping in the writing of a report for the EU Parliament
 - Analyzing depredation data from European country

2017

 - **Research Assistant**
Norwegian Institute for Nature Research 📍 Trondheim, Norway
 - Use of text data mining and classification methods to analyze environmental legislation

TEACHING EXPERIENCE

- Current | 2018
- **Quantitative methods**
NTNU's Department of Geography 📍 Trondheim, Norway
 - I built a website to make all lectures and exercises open access
 - Teaching the use of R programming, regression techniques & data visualization
 - Master level class

Current | 2018

 - **GIS Tools for climate change studies**
NTNU's Department of Geography 📍 Trondheim, Norway
 - TA and lectured
 - Advanced GIS analysis to study climate related problems
 - Master level class

Current | 2018

 - **Introduction to GIS & Quantitative methods**
NTNU's Department of Geography 📍 Trondheim, Norway
 - TA and lectured
 - Introduction to programming in R and basic statistical techniques
 - Bachelor level class

During my PhD I gave courses in spatial data analysis and more quantitative methods

SELECTED SCIENTIFIC COMMUNICATION WRITING

- 2020
- **Fitting point process models in R**
Towards Data Science
 - Tutorial on analysing spatial patterns in R using Bayesian methods

2020

 - **Understanding point process models**
Towards Data Science
 - Tutorial on analysing spatial patterns in R using Bayesian methods

2020

 - **The contribution of hunters to monitoring biodiversity in Europe**
European Federation for Hunting and Conservation
 - Short description of our paper Hunters as Citizen Scientists

I publish articles for a more general audience to explain complex concepts

- 2020
- **Can Humans and Wild Ungulates Live Together in a European Landscape?**
Ecology For the Masses
 - Short description of our paper on the challenges and opportunities of living with wild ungulates
- 2019
- **Inspiring optimism: note from the Conservation Optimism Summit**
Ecology For the Masses
 - Short description of my contribution to the conference Conservation Optimism

SELECTED PUBLICATIONS

- 2020
- **Hunters as citizen scientists: Contributions to biodiversity monitoring in Europe.**
Global Ecology and Conservation
 - Cretois, B., Linnell, J. D., Grainger, M., Nilsen, E. B., & Rød, J. K.
 - We assessed the means by which hunters contribute to biodiversity monitoring
- 2020
- **The challenges and opportunities of coexisting with wild ungulates in the human-dominated landscapes of Europe's Anthropocene.**
Biological Conservation
 - Linnell, J. D., Cretois, B. (*co-first authorship*), Nilsen, E. B., Rolandsen, C. M., Solberg, E. J., Veiberg, V., ... & Kaltenborn, B.
 - We summarized and analyzed data on species distribution, ungulates-car collisions and hunting
- 2020
- **Accounting for spatial varying sampling effort due to accessibility in Citizen Science data: A case study of moose in Norway.**
Spatial Statistics
 - Sicacha-Parada, J., Steinsland, I., Cretois, B., & Borgelt, J.
 - We attempted to correct for biases in Citizen Science data
- 2019
- **What form of human-wildlife coexistence is mandated by legislation? A comparative analysis of international and national instruments**
Biodiversity and Conservation
 - Cretois, B., Linnell, J. D., Kaltenborn, B. P., & Trouwborst, A.
 - We used text mining and clustering algorithms
- 2018
- **Research for AGRI Committee-The Revival of Wolves and Other Large Predators and Its Impact on Farmers and Their Livelihood in Rural Regions of Europe**
Report for the European Parliament
 - Linnell, J. D., & Cretois, B.
 - We analyzed depredation data and communicated in a simple way for policy-makers



SELECTED TALKS

2020

- **The state of uncertainty quantification and reporting in Ecology**
annual meeting of the British Ecological Society online
 - Simmonds. E, Peprah Adjei. K, **Cretois. B**, Gonzalez-Gil. R, Laverick. J, Mandeville. C, Sicacha Parada. J, Skarstein. E. S, van der Veen. B, O'Hara. B
 - We reviewed how uncertainty is reported in ecological studies

2020

- **Conceptual insights on what presence means**
NTNU's Department of Geography Trondheim, Norway
 - Cretois, B.
 - My talk about the meaning of "presence" in ecology and geography

2020

- **Coexisting with large mammals in the human-dominated landscape of Europe's Anthropocene.**
4th Conference of the Nordic Society Oikos Reykjavik, Iceland
 - Cretois, B.

2019

- **Living with success with wild large mammals in Europe's anthropogenic landscape**
Conservation Optimism Summit Oxford, UK
 - Cretois, B.