

# Emilie Dedeбан

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## EDUCATION

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### University of Poitiers

Poitiers, France

*2nd year of MSc - Speciality : Ecological engineering*

*September. 2018 – September 2019*

- Score : 15.91/20, with honours | Rank : 2nd/22
- MSc courses : **Applied Statistics** (RStudio), **Geographic information system** (Qgis and ArcGis), Protection of natural areas, Management of ecosystems, Environmental law

*1st year of MSc - Biology, Ecology, Evolution*

*September. 2017 – June 2018*

- Training in applied research (1 week) in National center for scientific research (Centre d'Etudes Biologiques de Chizé) : Seminars and implementation of a research project aimed at studying the factors influencing the distribution of Adelie penguins
- MSc courses : **Applied ecology**, **Behavioral ecology**, Ecophysiology, **Biostatistics**, **GIS**, Evolutionary ecology, Population genetics

### University of Poitiers and University of Moncton

France and Canada

*Bachelor's degree in Ecology and Biology of Population*

*September. 2014 – June 2017*

- 3rd year of Bachelor's degree, International exchange at University of Moncton - Score : 80 (B+) with honours
- BSc courses : Biostatistics and analyses of biological data, Ornithology and fieldwork session, Marine biology and fieldwork session, Impact assessment and management of coastal environments

## PUBLICATIONS

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In prep **Dedeban E**, Webber Q, Laforge M, Vander Wal E. Fine-scale movement and resource selection behaviour of woodland caribou during migration.

In prep **Dedeban E**, Bretagnolle V, Martineau A. Wind farms threats to little bustard *Tetrao tetrao*: from empirical data to modelling. Target journal: Journal of Animal Ecology.

In prep **Dedeban E**, Bretagnolle V, Martineau A. Impact of human infrastructures to European Stone Curlew *Burhinus Oedicnemus*.

## CONFERENCES

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**March 2020** : Participation to Moving2Gather, a workshop to gather statisticians and movement ecologists

- Main goals : Scientific exchanges on methods of analyzing individual trips. State of the art in displacement analysis (Markovian or semi-Markov hidden state models, segmentation, random walks).
- Guest speakers : **Marie Auger-Méthé and Tal Avgar**
- Attended to tutorial on trajectories visualization with Rocio Joo and tutorial to estimate habitat selection with Pierre Gloaguen

## EMPLOYMENT

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### Engineer in Movement Ecology

Chizé, France

*National center for scientific research and University of La Rochelle*

*January 2020 - Present*

- Supervisor: Dr. Vincent Bretagnolle, Research Director, CNRS
- Part of the project "Influence des grandes infrastructures sur l'avifaune de plaine: une approche multi-espèces et multi-échelles (INFRA)" which aims to study the impact of infrastructures, especially wind farms, power lines and routes, on movement of three declining species, the Little Bustard, the Eurasian Stone Curlew and the Montagu's harrier
- Use of GPS/GSM data and accelerometer data
- Monitoring of bird populations on fieldwork

### Project manager on little bustard movement study

Chizé, France

*Conservatory of Natural Areas / National Office for Biodiversity*

*November 2019 – January 2020*

- Supervisor: Dr. Alexandre Villers, Engineer, OFB

- Banking of GPS bird tracking data deployed on Little Bustard on Marseille airport in order to reduce birds strike incidents with aircrafts
- Development of scripts to update and analyse movement and scaring data (R and RMarkdown)
- Assessment of airport activity in interaction with the birds' movement
- Postgres SQL database manipulation

## OTHER EMPLOYMENT

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### Exam corrector

*University of Moncton*

Moncton, NB, Canada

January 2017 – April 2017

- Courses : Zoology of vertebrates (Level : 1st and 2nd BSc' years)

## ACADEMIC RESEARCH EXPERIENCE

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### Internship - 2nd year of MSc

*Memorial University of Newfoundland*

St John's, NL, Canada

March 2019 – August 2019

- Supervisors : Dr. Eric Vander Wal, Assistant professor and Michel Laforge, PhD
- Internship project focused on the **influence of environmental and weather factors on migration patterns of woodland caribou in Newfoundland**
- **Analyse of VHF collars data / Environmental and weather data / Hidden Markov model / Trained in iSSA analysis within iSSA club**
- Defense score: 17/20 (Report) and 17.5/20 (Oral restitution)

### Internship - 1st year of MSc

*University of East Anglia, England*

Norwich, England

April 2018 – June 2018

- Supervisor : Dr. Aldina Franco, Senior Lecturer/Reader, A.Franco@uea.ac.uk
- Internship project focused on **migratory movements and habitat selection of white storks during winter migration**
- **Analyse of GPS/GSM data / Environmental data (NDVI) / RStudio and ArcGis**
- Defense score: 15/20 (Report) and 15.5/20 (Oral restitution)

## RESEARCH FIELDWORK

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### INFRA Project | *Volunteer*

*CEBC, CNRS*

Chizé, France

June 2020 – Present

- Assisted with birds monitoring for collaborators from CEBC which involved regular tracking and handling, tagging and deploying gps on Little Bustard and European Stone Curlew.

### Fogo Island Caribou Ecology Project | *Volunteer*

*Memorial University of Newfoundland*

Fogo Island NL, Canada

June 2019

- Monitoring of caribou population. Track of collared caribou and capture calves for collaring and ear tagging. Deployment of VHF collars.

### Movetech Telemetry Project on White Stork | *Volunteer*

*University of East Anglia*

Castro Verde, Portugal

June 2018

- Monitoring of white stork population in Castro Verde. Monitoring of nest, capture tagged birds and GPS deployment on newborns.
- Research project: Researchers from University of East Anglia, UK, and University of Lisbon, Portugal are collaborating with the BTO to explore the consequences of the sudden reduction in food availability for resident birds after the closure of the landfills.

### Panthera Research Program - OSI Panthera | *Volunteer*

*University of East Anglia*

Kyrgyzstan

June 2018 – July 2018

- Monitoring of snow panthera in Kyrgyzstan. Deployment and collection of camera trap to uncover feline occurrence trends.
- The OSI Panthera Research and Education program is one of the projects of Objectif Sciences International (OSI), an NGO that promotes science education and research for sustainable development.

## MENTORSHIP ACTIVITIES

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### INFRA Project - Mentor

Chizé, France

CEBC, CNRS

February 2020 – September 2020

- Mentored two MSc's students for their research project. Taught the student techniques for movement data analysis, reflection on the development of a project and associated research questions. Weekly meetings for projects monitoring
- Oriane Vavon (University of Poitiers): "Influence of infrastructures on movement decision of Montagu's harrier (*Circus pygargus*) in its preferential habitat during the breeding season in Deux-Sèvres" – 6 months internship
- Adrien Martineau (University of Montpellier): "Impact of large infrastructures on Stone curlew (*Burhinus oedicanus*) distribution in Poitou-Charentes region" – 6 months internship

## PROFESSIONAL SKILLS AND QUALIFICATIONS

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**Technical:** Proficient user of R statistical software (RStudio), GPS/GSM and accelerometer data management, ArcGis and QGIS, Excel, Word, PostgreSQL (PgAdmin, DBeaver)

**Field methods:** Handling, tagging and collaring (birds and ungulates), Radio telemetry and animal tracking, Blood sampling

**Languages:** English (Read, written and spoken), Spanish (Scholar), French (Native)

## VOLUNTEER EXPERIENCE AND FORMATION

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### Formations

2018 – 2019

- Bats monitoring (Vienne Nature association)
- « Manage your databases with MySQL » (Open Classrooms – Mooc)
- « On the tracks and clues of Mammals » (Vienne Nature Association)

### Naturalist guide

July 2017 – August 2017

*Maison du Fier (LPO Association) and Reserve of St Denis du Payré, France*

- Organization of activities and naturalist outings around shorebirds

## REFERENCES

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**Dr. Vincent Bretagnolle - Research director :** Team Agripop, French National Center for Scientific Research - Centre d'Etudes Biologiques de Chizé. UMR 7372 CNRS & Université de la Rochelle  
Vincent.BRETAGNOLLE@cebc.cnrs.fr

**Dr. Alexandre Villers - Engineer :** French Office for Biodiversity – Centre d'Etudes Biologiques de Chizé  
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