

# LENA BUREAU

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09/07/1995  
Nationality : French  
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## EDUCATION

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**PHD in RENEWABLE RESOURCES** **Jan 2023 - present**  
**UNIVERSITY OF MCGILL, MONTREAL, CANADA**

**Subject of the PhD's thesis:** Methodological aspects of knowledge co-production in Arctic and Sub-Arctic wildlife research in partnership with Cree and Inuit communities.

**Main project:** Weaving Inuit Qaujimagatuqangit and Scientific Knowledge to identify critical habitats for Peary caribou in the Canadian high Arctic.

*Referrer : Pr Murray Humphries:* McGill Northern Research Chair, Director Center for Indigenous Peoples' Nutrition and Environment

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## MASTER OF ARTS IN ARCTIC STUDIES AND WILDLIFE NORDIC MANAGEMENT

- **UNIVERSITY OF VERSAILLES, PARIS SACLAY, FRANCE** **2020- 2021**
- **UNIVERSITY OF QUEBEC AT RIMOUSKI (UQAR), CANADA** **2017- 2018**

**Subject of the master's thesis :** Collaboration between western researchers and Indigenous communities in the natural sciences.

*Referrer : Pr Alexandra Lavrillier:* Associate Professor in Social and Cultural Anthropology at the CEARC (Cultures, Environments, Arctic, Representations, Climate) of University of Paris-Saclay (UVSQ).

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**BACHELOR'S DEGREE IN SCIENCE** **2013-2017**  
**UNIVERSITY OF NANTES, FRANCE**

## RELEVANT EXPERIENCE, BIOLOGICAL AND ECOLOGICAL RESEARCH

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**WILDLIFE BIOLOGIST - REPLACEMENT** **August 2023**  
*Department of Natural Resources of the Cree First Nation of Waswanipi, Eeyou Istchee Region, Canada* *1 month*

- Providing assistance to the Forest authority department with respect to the planning, design and coordination of surveys on wildlife population, population dynamics, habitat quality and on harvest and use of wildlife resources by Cree.
- Maintain progress on research projects relating to moose habitat quality and marten population monitoring (Wapistan Project).

**BEHAVIOURAL BIOLOGIST**, Demographic monitoring of king penguin colonies. **Oct 2021-May 2022**  
*French Polar Institut Paul Emile Victor, French Southern and Antarctic Territories , Kerguelen Islands* *8 months*

- Demographic monitoring of king penguin colonies (counting by helicopter, monitoring of spatial distribution and internal movements using an RFID antenna system, capture, blood sampling, morphometric measurements, transponding).
- Behavioural experiments with petrels, skuas and chionis.
- Petrel odour sampling and filter prions for chemical analysis, petrel song recording and acoustics experiments.
- Writing weekly and monthly reports about research activities.

**Referrer :**

- **Pr Francesco Bonadonna:** Centre d'Ecologie Fonctionnelle et Evolutive (CEFE, CNRS), Department of Evolutionary Biology, Montpellier, head of group : Ecological behavior.

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**WILDLIFE PROJECT MANAGER**, Meerkat communication and acoustic.  
*Kalahari Meerkat Project, Zurich University, Northern Cape, South Africa*

**August 2019-March 2020**

*6 months*

- Data collection consisting of audio recordings and analysis of meerkat calls.
- Performing captures on meerkats and assisting blood sampling, morphometric and x-rays.
- Writing weekly and monthly reports about research activities.
- Coordinating data collection and planning experimental design with researchers on and off site.
- Maintenance of the research station: in charge of restocking during town trips (fuel, food).

**Referrer :**

- **Pr Marta Manser :** Department of Evolutionary Biology and Environmental Studies University of Zurich, head of group : Communication and Cognition in Social Mammals

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**WILDLIFE RESEARCH ASSISTANT**, Meerkat behavior and life history.  
*Kalahari Meerkat Project, Cambridge & Zurich University, Northern Cape, South Africa*

**Nov 2018- August 2019**

*9 months*

- Behavioral data collection on wild habituated meerkat groups using handheld computers and GPS sensors.
- Daily handling and weighing of meerkats.
- Wild meerkat groups tracking using cameras traps and start their habituation.
- Training and supervising of new volunteers with multicultural background.
- Mammals population estimation using linear transect in the Kuruman River Reserve.
- Responsible for the maintenance and repair of field equipment.

**Referrer :**

- **Pr Tim Clutton-Brock:** Director of Research, University of Cambridge, Zoology Department
- **Pr Marta Manser**

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**WILDLIFE RESEARCH INTERN ( GAP YEAR )**, Spatial Distribution of Grey Wolf.  
*Lupus Laetus Project, for Vladimir Bologov and Laetitia Becker, Lieksa, Finland*

**Nov 2015- May 2016**

*6 months*

- Modeled the spatial distribution of a wolf pack in the boreal forest.
- Evaluated food availability and wolf pack movements by snow tracking.
- Assessed diet by excrement analysis.

## **SKILLS**

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### **FIELD SKILLS**

- Animal handling : blood sampling, transponding/tagging, morphometric measurements, medium-sized birds ringing
- Radio telemetry ( GPS, Telonics VHF) and Camera Trap
- Behavioral data collection (Scan, adlib, focal)
- Sound recording ( Marantz + playback ) and odour sampling
- Snow and sand animal tracking

### **PARTICIPATORY RESEARCH SKILLS**

- Organizing workshops in collaboration with Hunters & Trappers Organization/Association to document Traditional and Local Ecological Knowledge.
- Applying participatory mapping techniques.
- Conducting semi-structured interviews.
- Conducting fuzzy cognitive mapping exercises.

### **COMPUTER SKILLS**

- Adobe Audition, R and R Studio (basic), QGIS, ARCGIS, Map Source, camera trap image database management, significant knowledge of Microsoft office program, iMovie, Lightroom; adept at learning new software.

### **PERSONAL & INTERPERSONAL SKILLS**

- Thriving in harsh and isolated conditions, self-directed, good team worker.

### **ACTIVITIES AND INTERESTS**

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- Trekking ( Kungsleden trail : 440 km, Arctic, Sweden), Horseback riding ( level 5 ), Kayaking : expedition (1 month in autonomous with a packraft down the Orkhon river in Mongolia), Photography