

Gaëlle Blanvillain

Field Ecologist

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Education & Training

NEON Data Institute Boulder, CO
Remote sensing of vegetation using open source tools and reproducible science workflows / June 2017

MS / Marine Biology GPA 4.0
College of Charleston, SC / 2005

MS / Natural Resource Manag.
Catholic Univ of Angers, France / 2001

BS / Biology University of La Rochelle, France / 1999

Skills

FIELD TECHNIQUES:

- herpetofauna monitoring and capture
- bird survey (netting, nest counts)
- marking and tagging

LAB SKILLS:

- ultrasonography
- surgical preparation
- blood and tissue sampling
- RIA / ELISA analyses
- CV-AFS (ecotoxicology)
- microsat genotyping
- husbandry
- video monitoring & analyses

COMPUTER:

- R statistical software
- Python / LaTeX / GNU Linux
- HTML / Wordpress
- Photoshop
- QGIS
- GIT/GITHub

Experience

Project Coordinator *Jan 2015 – present (part time/remote)*

Theoretical and Experimental Ecology Station (SETE) | National Center for Scientific Research (CNRS), Moulis, France

- Project coordinator for the study of the genetic basis of altruism using the Carnegie Hero Fund database (USA & Europe).
- In charge of ethics approval, supervise data and sample collection, created and maintain a website for the project

Research Assistant *Sept 2012 – Sept 2014*

SETE | CNRS, Moulis, France

- Managed field work, data & sample collection of reptiles (snakes, lizards), amphibians, birds, plants and insects in the Pyrenees
- Microsatellite genotyping on species of butterflies, beetles and salamanders to look at the effect of landscape fragmentation from railroad network on population structure and dynamics
- Designed research projects, managed compliance with French research permits, purchase orders, supervised undergraduate and graduate students

Research Associate *Jan 2005 – June 2010*

College of Charleston | South Carolina Department of Natural Resources, Charleston, SC

- Chief scientist (2008 & 2009) for an in-water survey of sea turtle abundance along the Southeastern Atlantic coast: on-board supervision and training of a team of fishermen, students and scientists, handling and data recording of by-catch species and sea turtles, management report to NMFS each year
- Lab manager, in charge of sea turtle blood sample archiving from national and international projects, graduate student supervision
- Hormone level and data analyses to study the impact of global climate change on sea turtle populations
- Publication write-ups, conference participation, assistance in grant writing & budget management

Research Assistant *April 2004 – Dec 2005*

National Institute of Standards and Technology, Charleston, SC

- Capture of turtles along the Georgia and South Carolina coastlines
- Tissue and blood sampling for toxicological analyses

Teaching Assistant *Aug 2003 – April 2004*

College of Charleston, Charleston, SC

- Taught introductory biology to undergraduate students

Research Assistant *March 2002 – June 2002*

Sea Turtle Conservancy, Gainesville, FL | Tortuguero, Costa Rica

- Monitored nesting activity of sea turtles, tagging
- supervised volunteers, participated in capacity building

Publications

Most recent: Aubret, F, Blanvillain G, Bignon F and Kok JR. 2016.

Heartbeat, embryo communication and hatching synchrony in snake eggs.

Scientific Reports, 6:23519, doi: 10.1038/srep23519.

I have authored/co-authored 15 other publications, and 1 book chapter.