



Marie Le Roux

+33(0)6 17 55 21 17

contact@mlr-environnement.fr

www.mlr-environnement.fr



ENVIRONMENTAL CONSULTANT

Species habitat mapping and Nature conservation planning

FORMATIONS

France	2022	VigieDNA technologies and network for environmental DNA sampling in natural environments - Spygen SAS - Le Bourget du Lac (73)
France	2019	Use of the Ecological Quality Indicator (IQE) - Natural History Museum - UMS Patrinat
France	2018	Modeling of ecological networks: advanced use of Graphab software - Thema (UMR 6049 Modéliser & théoriser pour aménager) - CNRS
France	2017	Characterization of wetlands based on soil criteria - AgrosCampus Ouest.
Spain	2013	Tools for analyzing landscape connectivity: methods and applications. Polytechnic university – School of forestry, Madrid.
France	2008-2012	Forester engineer - Management of natural area. Institute in Science and Engineering – School of forestry (Agroparistech-ENGREF), Nancy. Graduated in 2012.
Austria	2010-2011	Master of Science in Mountain Forestry , University of Natural Resources and Life Sciences (BOKU), Vienna
France	2012-2015	Mountain leader state diploma , Rhône-Alpes region. Graduated in 2015.

REFERENCES CHOISIES

Hautes-Alpes (05)	2022	Faune, flora and natural habitat inventory on cliff of the EDF dam of Serre-Ponçon - Consortium Verticalia & MLR-Environnement - EDF hydro Alpes
Savoie (73)	2020-2021	Bats inventory - Natura 2000 Site FR8202003/FR8212028 « Massif de la Lauzière » - Species distribution and habitats preferences analyses - <i>Syndicat Mixte de la Lauzière</i>
Savoie (73)	2019-2020	Bats inventory - Natura 2000 Site FR8201778 - Landes prairies habitats rocheux du massif du mont Thabor - Species distribution and habitats preferences analyses - <i>Commune de Modane</i>
Savoie (73)	2019-2022	Impact studies for hydroelectric micro-power projects - flora and natural habitats, vertical and torrential habitats, terrestrial mammals and chiroptera with additional DNA analyzes - <i>Various municipalities in Savoie Yethy SAS design office.</i>
Drôme (26)	2017-2022	Study of bats prior to the establishment of a protection system against rock instability (inventory of bats, potential for arboreal and rock roosts, issues on habitats and species). RD76 - Combe Laval, RD 518 - Les Petits Goulet, RD 578 Omblèze, RD 580 Veronne. <i>Drôme community.</i>
Rhône-Alpes (74,73,05)	2016 - 2021	Inventory of bats, vegetation & mapping of natural habitats for regulatory studies.
Alpes-Pyrénées	2019	AltiChiro projet creation : for knowledge of mountain bats in the Alps, Pyrennees and other mountain ranges. https://altichromontagne.wixsite.com/projet
Jura (39)	2018	Bats inventory prior to Natural protected area (ENS) creation - Bourg-de-Sirod (39)- Jura community
Drôme (26)	2018	Accuracy of habitat mapping in 3 study areas of Natura 2000 sites: FR 8201681 : Gervanne et rebord occidental du Vercors ; FF 8201682 : Rebord méridional du Vercors ; FR8201743 : La Bourne - Vercors Regional Natural Park
Drôme, Isère (26, 38)	2017	Mapping of habitat potential favorable to forest bats - Natura 2000 site « Etangs, landes, vallons tourbeux humides et ruisseau à écrevisses de Chambaran » - <i>Rhône-Alpes conservatory of natural areas.</i>
France (55, 77, 78, 21)	2014-2017	Spatial distribution modelling of bats habitats in forested area in state forests. <i>French National Forest Service - Office for forest and natural hazards, Paris.</i>
Bretagne	2016-2019	Formatrice - Modélisation de la distribution spatiale des espèces & Notions de géomatique

Isère (38)	2015	French Map of semi-natural and natural vegetation (CarHab project) - Working group on high elevation open environments. Central massif (Natural Park of Pilat), Alpine massifs (Ecrins, Belledonne, Grandes Rousses). <i>National Research Institute of Science and Technology for Environment and Agriculture (Irstea-Grenoble).</i>
Isère (38)	2013-2014	Modelling of species distribution: a tool for habitat evaluation and conservation and ecological connectivity (MocHab Project). Natural Park of Vercors and Chartreuse and State forest of Tronçais - <i>Irstea - Grenoble.</i>
Switzerland (Lower-Valais)	2012	Feasibility of a forest reserve in Arpille massif and Trient Valley. - <i>Forest and Landscape service of Lower Valais, Martigny</i>
Haute-Savoie (74)	2011	Interaction forest/ungulates for a Natura 2000 objectives document production. Voirons massif. <i>"La CERFF" association, St Cergues</i>
Canada (Alberta)	2010	FORWARD research project assistant - Forest Watershed & Riparian Disturbance Project.

COMPETENCES

Expertise	<p>Flora: inventory of forest, alpine and high-altitude wetland flora, wetland expertise.</p> <p>Faune: bats inventory by active and passive ultrasonic detection, avifauna (black grouse, small mountain owls)</p> <p>Ecological analyses : initial state of flora and fauna (chiroptera), studies on species/habitat relationships.</p>
Informatics	<p>Programming languages (R, Scilab, Visual Basic) & statistical software (S-plus)</p> <p>Geographic information systems (ArcView, QGIS, SagaGIS) & image analyses</p> <p>Modelling (Biomod2, Conefor, Linkage Mapper, Circuitscape, Guidos)</p> <p>Working software (Excel, Word, PowerPoint, Access, Outlook, Adobe® Creative Suite®)</p>
Languages	French – Mother tongue, English – Advanced level; Spanish – Medium level; German – Beginner (A1)

DERNIERES PUBLICATIONS

- LE ROUX M., BAILLAT B., AMODEI T. (2019). **Étude de la répartition, de l'écologie et des habitats des chiroptères en altitude : État d'avancement 2019 et premiers résultats** - Projet AltiChiro. 87p.
- MARÉCHAL D., LE ROUX M., SANZ T. (2018) - **Se baser sur les compartiments pour cartographier à grande échelle** [en ligne] - Espaces naturels - Janvier 2018, n°61.
- LE ROUX M., REDON M., VINCENT S., LONG J., ARCHAUX F., LUQUE S. (2017) - **Conservation planning with spatially explicit models: a case for horseshoe bats in complex mountain landscapes** - *Landscape Ecology*, (32), 1005-1021
- LE ROUX M., REDON M., VINCENT S., TILLON L., BOUIX T., ARCHAUX F., LUQUE S. (2016) - **La modélisation spatiale des habitats et des corridors : un outil pour la conservation et la gestion des chauves-souris** - *Symbioses*, no. 34-35
- LE ROUX M. (2015) - **Modélisation de la répartition des séries et géoséries sur le Massif Central** - Programme CarHab - Institut National de recherche en sciences et technologies pour l'environnement et l'agriculture (Irstea-Grenoble), 36 p
- LE ROUX M. (2015) - **Modélisation de la distribution des espèces de chauves-souris sur les forêts domaniales de Verdun et Morthomme** - MLR-environnement, 54 p.
- LE ROUX M., LUQUE, S., VINCENT,S., PLANCKAERT O. (2014) - **Intégration de la connectivité dans la gestion et la conservation des habitats**, [en ligne] - *Revue SET*, 2014, no. 14, p. 20-25.

COMMUNICATIONS

France Montélimar (26)	October 2019	Rencontres Chiroptères Grand Sud - Présentation du Projet Altichiro, pour la connaissance des chiroptères de montagne
Estonie Tartu	August 2015	IUFRO Landscape Ecology Conference (2015) - Modelling the distribution and connectivity of bats in lowlands and mountain environments: A spatial operational approach towards forest conservation planning.
France Bourges (18)	March 2014	15th National meeting on bats of Bourges Museum (SFPEM) - La modélisation spatiale des habitats et des corridors – un outil pour la conservation et la gestion des chauves-souris.
United-Kingdom Scotland	February 2014	Seminar for MocHab project presentation – Centre for GeoInformatics - University of St Andrews.

INFORMATIONS COMPLEMENTAIRES

Naturalist associations	<p>Founding member of the Association for Naturalist Initiatives</p> <p>Member of the Chiroptera group of Savoie and Haute-Savoie et du Rhône-Alpes chiroptera group</p> <p>Monitoring of Little Mountain Owls (Haute-Savoie)</p> <p>Member of the editorial board of Plume de Naturalistes</p>
Mountain sports	Alpinism, rock climbing, ice climbing, cross-country skiing, trekking, mountain bike.