



Marie Le Roux

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## ENVIRONMENTAL CONSULTANT

### Species habitat mapping and Nature conservation planning

#### EDUCATION

Spain	2013	<b>Tools for analyzing landscape connectivity: methods and applications.</b> Polytechnic university – School of forestry, Madrid.
France	2008-2012	<b>Forester engineer - Management of natural area.</b> Institute in Science and Engineering – School of forestry (Agroparistech-ENGREF), Nancy. Graduated in 2012.
Austria	2010-2011	<b>Master of Science in Mountain Forestry</b> , University of Natural Resources and Life Sciences (BOKU), Vienna.
France	2012-2015	<b>Mountain leader state diploma</b> , Rhône-Alpes region. Graduated in 2015.

#### PROFESSIONAL EXPERIENCES

France (55, 77)	2014-2016	<b>Spatial distribution modelling of bats habitats in forested area</b> in state forests. <i>French National Forest Service - Office for forest and natural hazards, Paris.</i>
France (38)	2015	<b>French Map of semi-natural and natural vegetation (CarHab project) - Working group on high elevation open environments.</b> 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>
France (38)	2013-2014	<b>Modelling of species distribution: a tool for habitat evaluation and conservation and ecological connectivity (MocHab Project).</b> Natural Park of Vercors and Chartreuse and State forest of Tronçais <i>Irstea - Grenoble.</i>
Switzerland (Lower-Valais)	2012	<b>Feasibility of a forest reserve</b> in Arpille massif and Trient Valley. <i>Forest and Landscape service of Lower Valais, Martigny</i>
France (74)	2011	<b>Interaction forest/ungulates for a Natura 2000 objectives document production.</b> Voirons massif. <i>"La CERFF" association, St Cergues</i>
Canada (Alberta)	2010	<b>FORWARD research project assistant</b> <i>Forest Watershed &amp; Riparian Disturbance Project, Whitecourt</i>

#### COMPETENCES

Expertise	<b>Flora and fauna inventories</b>
Informatics	<b>Programming languages</b> (R, Scilab, Visual Basic) & <b>statistical software</b> (S-plus) <b>Geographic information systems</b> (ArcView, QGIS, SagaGIS) & <b>image analyses</b> <b>Modelling</b> (Biomod2, Conefor, Linkage Mapper, Circuitscape, Guidos) <b>Working software</b> (Excel, Word, PowerPoint, Access, Outlook, Adobe® Creative Suite®)
Languages	<b>French</b> – Mother tongue, <b>English</b> – Advanced level; <b>Spanish</b> – Medium level; <b>German</b> – Beginner (A1)

## PUBLICATIONS

- 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, 2016, no. 34-35
- LE ROUX M., THIERION V., MARECHAL D., SANZ T., ISENMANN M. (2015) - *Méthodologies de la modélisation de distribution spatiale appliquée à la cartographie des végétations naturelles ou semi-naturelles - Fiches techniques - CarHab Project* - National Research Institute of Science and Technology for Environment and Agriculture (Irstea-Grenoble), 19 p
- LE ROUX M. (2015) - *Modélisation de la répartition des séries et géoséries sur le Massif Central - CarHab Project* - National Research Institute of Science and Technology for Environment and 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-environment, 54 p.
- LE ROUX M., LUQUE, S., VINCENT,S., PLANCKAERT O. (2014) - *Intégration de la connectivité dans la gestion et la conservation des habitats* [on line] - Revue SET, 2014, no. 14, p. 20-25.
- LE ROUX M., REDON M. (2013) - *Fiches synthétiques – Résultats de la modélisation de distribution des chauves-souris sur les sites sur les parcs naturels régionaux du Vercors et de la Chartreuse et sur la forêt domaniale de Tronçais* – National Research Institute of Science and Technology for Environment and Agriculture (Irstea-Grenoble), 28 p.
- LE ROUX M. (2013) - *Fiche méthodologique de la modélisation de distribution des espèces* – National Research Institute of Science and Technology for Environment and Agriculture (Irstea-Grenoble), 19 p.
- LE ROUX M., METRAL R. (2012) - *Projet de réserve forestière sur le massif de l'Arpille et Vallée du Trient - Technical report* - Forest and Landscape service of Lower Valais. 58 p.
- LE ROUX M., BOUSCAILLOU C. (2012) - *Etude complémentaire N°4 : Etude des interactions forêt / gibier dans la zone N 2000 du Massif des Voirons in Site Natura 2000 du massif des Voirons (Site FR8201710). Objectives document* - CERFF association. 429 p.

## CONFERENCES

Estonia Tartu	August 2015	<b>IUFRO Landscape Ecology Conference (2015)</b> - 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	<b>15th National meeting on bats of Bourges Museum (SFEPM)</b> - La modélisation spatiale des habitats et des corridors – un outil pour la conservation et la gestion des chauves-souris.
United-Kingdom Scotland	February 2014	<b>Seminar for MocHab project presentation</b> – Centre for GeoInformatics - University of St Andrews.
France Chambéry (73)	September 2013	<b>Seminar on "Water and forests Naturality"</b> , MocHab project poster.

## OTHER SKILLS

Mountain sports	Alpinism, rock climbing, ice climbing, cross-country skiing, trekking, mountain bike. Mountain leader since 2015 - Union of International Mountain Leader Associations (UIMLA).
Art	Drawing, clay sculpture, 9 years of artistic ice-skating (competition level).