



# TROPIMUNDO

## ERASMUS MUNDUS MASTERS COURSE IN TROPICAL BIODIVERSITY AND ECOSYSTEMS

### Bernard RIÉRA, TROPIMUNDO MNHN Local Coordinator

Bernard Riéra's research interests are in the dynamics and structure of tropical forests, natural and anthropogenic disturbances, current or past. He uses indices of leaf life history and traits of plants, and remote sensing to characterize the structure and biomass of forests, forest functioning with the University of Marne La Vallee, France and Ioga in Antananarivo, Madagascar. He is an expert on forest biomass, carbon storage, forest typology and classification.

He is a lecturer in various master degrees in France (University of Creteil, Master Bioresources, University ENS-UPMC-MNHN), Gabon (ENEF), Cameroon (CRESA) and Madagascar (University of Antananarivo). He works part-time as PIM ECOFOR since January 2003: tropical forest management topics and the French focal point of the European Network of Research on Tropical Forests (ETFRN) and is an officer of ETFRN. He was an elected member of the National Research Committee: Secretary of Section 30, and member of the CID 46, until 2004., and an elected member of the Specialist Committee MNHN, Population Biology and Ecology (Section 67) until 2009. Finally, he is an elected member of the Scientific Council of the MNHN.

Most importantly, Bernard Riéra is the co-leader of the Tropical Plant Biodiversity course in UPMC and MNHN master degree in which he teaches more than 90 hours per year, incl. the organization of field schools in 2010-2011-2012 and Master BEVT.

|    |  |  |         |                  |
|----|--|--|---------|------------------|
| 1  | <b>Family name</b>   | RIERA  |         |                  |
| 2  | <b>First name</b>  | Bernard  |         |                  |
| 3  | <b>Date of birth</b>   | 26 februar 1955  |         |                  |
| 4  | <b>Nationality</b>   | French   |         |                  |
| 5  | <b>E-mail</b>  | <a href="mailto:riera@mnhn.fr">riera@mnhn.fr</a>   |         |                  |
| 6  | <b>Education / Professional studies</b>  |  |         |                  |
|    | Dates (from-to)  | Institution  |         | Degree/diploma   |
|    | 01/10/1979-30/06/1980  | UPS (Université Paul Sabatier Toulouse)  |         | MSc Biogeography |
|    | 01/12/1980-26/11/1983  | UPS (Université Paul Sabatier Toulouse)  |         | PhD Biogeography |
| 7  | <b>Language skills</b> Grade skill 1-5 (1 = basic, 5 = excellent, * = mother tongue)   |  |         |                  |
|    | Language   | Speaking   | Reading | Writing          |
|    | English  | 4  | 5       | 3                |
|    | French*  | 5  | 5       | 5                |
|    | Portuguese   | 2  | 4       | 1                |
| 8  | <b>Membership of professional bodies</b>   |  |         |                  |
|    | Société Botanique de France, Société Française d'Ecologie, Société Française de Mycologie, Société Botanique du Centre Ouest |  |         |                  |
| 9  | <b>Other Skills</b>  |  |         |                  |
|    | Computer skills, research skills, managerial capabilities  |  |         |                  |
| 10 | <b>Name of organisation currently working for and Present position in the organisation</b>                                   | Name of Organisation:<br>Muséum National d'Histoire Naturelle - MNHN<br>Present position in the organisation: Researcher |         |                  |
| 11 | <b>Years with the organisation</b>   | 20   |         |                  |

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| <b>12</b> | <b>Long-term experience in specific countries/territories</b>   |  |                             |
|           | Country   | Date                                     | Details                     |
|           | <b>French Guyana</b>  | 1980-present                             | Research on forest dynamics |
|           | <b>Cameroon</b>   | 1995-present                             | Research on forest dynamics |
|           | <b>Madagascar</b>   | 2007-present                             | Research on forest dynamics |
| <b>13</b> | <b>Professional experience record</b>   |  |                             |
|           | Location  | Date                                     | Organisation                |
|           | <b>Paris</b>  | 1985-present                             | <b>CNRS and MNHN</b>        |
|           | Position  | Researcher                               |                             |
|           | Responsibilities  | Scientific research, Education, Projects |                             |
| <b>14</b> | <b>Publications (10 principal)</b>  |  |                             |
|           | Number of publications in peer-reviewed journals  |  |                             |
|           | 55  |  |                             |
|           | 10 publications that are most representative in the field of tropical biodiversity and ecosystems   |  |                             |
|           | <p>MUYAYA KALAMBAY, B., J.P. RUDANT, R. Lumbuenamo, M. BELAND, and B. RIERA -2016- Spatial dynamic of the hunting area and Bombo Lumene reserve between 2000 and 2015 by optical satellite imagery, International Journal of Innovation and Applied Studies, Volume 18, Issue 2, October 2016, Pages 559–568</p> <p>Mobaied Samira, Nathalie Machon, Arnault Lalanne, Bernard Riera -2015- The Spatiotemporal Dynamics of Forest–Heathland Communities over 60 Years in Fontainebleau, France 06/2015; 4 Spatial Analysis for Environmental Applications-:957-973.. DOI:10.3390/ijgi4020957</p> <p>Palla, F., S Gachet, N Picard &amp; B Riera, 2015 VEGETATION GROUPS FROM LIFE-HISTORY TRAITS FOR THE MANAGEMENT OF A SAVANNAH–FOREST MOSAIC, Journal of Tropical Forest Science 25(4): 454–466 (2013)</p> <p>Palla Florence, Nicolas Picard, Kate A. Abernethy, Tharcisse Ukizintambara, Elizabeth C. White, Bernard Riéra, Jean-Paul Rudant &amp; Lee White, (2011) Structural and floristic typology of the forests in the forest-savanna mosaic of the Lopé National Park, Gabon, Plant Ecology and Evolution 144 : 1–12, 2011</p> <p>Norden, N, J Chave, P Belbenoit, A Caubere, P Chatelet, P-M Forget, B Riéra, J Viers, C Thébaud. 2009. Interspecific variation in seedling responses to seed limitation and habitat conditions for 14 Neotropical woody species. Journal of Ecology 97, 186-197</p> <p>Chave J., Andalo C., Brown S., Cairns M.A., Chambers J.Q., Eamus D., Fölster H., Fromard F., Higuchi N., Kira T., Lescure J.-P., Nelson B.W., Ogawa H., Puig H., Riéra B. et Yamakura T. 2005. Tree allometry and improved estimation of carbon stocks and balance in tropical forests. Oecologia : 22;:1-13.</p> <p>Cournac, L. Dubois, M., Chave J. &amp; B. Riéra. 2002. Fast determination of light availability and leaf area index in tropical forests. Journal of Tropical Ecology, 18 : 295-302.</p> <p>Charles-Dominique P., Chave J., Dubois M.-A., de Granville J.-J., Riéra B. and Vezzoli C. Evidence of a colonization front of the palm <i>Astrocaryum sciophilum</i>, a possible indicator of paleoenvironmental changes in French Guiana. Global Ecology and Biogeography, (2003), 12 : 237-248.</p> <p>Riéra, B., Pélissier, R. et F. Houllier, (1998). Une mosaïque : Essai de délimitation spatiale d'unités structurales de végétation. Biotropica, 30 : 251-260.</p> <p>Charles-Dominique, P., Blanc, P., Larpin, D., Ledru, M.P., Riéra B., Sarthou, C., Servant, M. &amp; C. Tardy (1998). Forest perturbations and biodiversity during the last ten thousand years in French Guiana. Acta Oecologica, 19 : 295-302.</p> |  |                             |

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|           | <p>Riéra, B. et Alexandre D.Y., 1988. - Surface des chablis et temps de renouvellement en forêt dense tropicale. Acta OEcologia/ OEcologia Generalis, vol. 9, n° 2, 211-220.</p> <p>Lescure, J.P., Puig, H., Riéra, B., Leclerc D., Beekman A. et A. Bénéteau, 1983. - La phytomasse épigée d'une forêt dense en Guyane française. Acta OEcologia/ OEcologia Generalis, vol. 4, n° 3, 237-251.</p> |
| <b>15</b> | <b>Number of conference presentations (between brackets invited contributions)</b>   |
|           | 42 (6)   |