



EDUCATION/DEGREES

- 2012-2016 Phd student: Using functional traits in a dynamic global vegetation model: Three complementary approaches applied to forest ecosystems. Climate and Environment Sciences Laboratory (LSCE, CEA-CNRS-UVSQ, Saclay)
- 2008-2012 "Normalien" student, Biochemistry and bio-engineering Department at the Ecole Normale Supérieure de Cachan (ENSC)
MASTER 2 in Environment, specialty : Ecology, Biodiversity, Evolution (U.Paris-Sud)
ENSC Diploma – research year
MASTER 1 in Biology and Health, specialty : Plant Science (Obtained with distinction- U.Paris-Sud)
LICENCE in Science and Technology, Major : Life Science (equivalent to a Bachelor's degree obtained with distinction- ENSC)
- 2006 – 2008 Classe préparatoire BCPST (Lycée Henri IV, Paris)
A two-year intensive course preparing for the competitive entrance examinations to French Grandes Ecoles. Courses including scientific subject but also Humanities and Languages.

PROFESSIONAL EXPERIENCE

- 2013-2015 **ONF, Direction Technique et Commerciale Bois, Département Recherche**, Fontainebleau, France
Production of a synthesis about the « carbon neutrality » controversy of forests, designed for French forest managers, and taking into account both scientific, economic, politic and social aspects.
- 2012-2015 **UMR Climate and Environment Sciences Laboratory**, Saclay, France
Using functional traits in a dynamic global vegetation model: Three complementary approaches applied to forest ecosystems.
- 2011
5 months **UMR Eco&sol**, Itatinga, Brazil.
Deep roots characterization of a Brazilian clayey soil under pasture. A preliminary study of CO₂ efflux and soil dynamics of its isotopic composition after afforestation of pasture (C₄) with pure and mixed plantations of *Eucalyptus grandis* and *Acacia mangium* (C₃).
- 2010
5 months **ONF, Direction Technique et Commerciale Bois, Département Recherche**, Fontainebleau, France
Litterfall analysis from the 102 plots of the RENECOFOR network in France. An exploratory analysis from 1995 to 2007, relationship with global changes.
- 2010
1 month **UMR Ecologie des Forêts de Guyane**, Kourou., French Guyana
Geographic and environmental variability of carbon stocks in tropical Amazonian rainforest.
- 2009
2 months **UMR de Biomécanique et Pathologie Locomotrice du Cheval**, Ecole Vétérinaire d'Alfort, France
Development of an accelerometric method to measure hoof's slides of a horse trotting in straight line.

SKILLS

- Languages English (TOEIC- 910 in 2012), Portuguese (5 months in Brazil)
- Software MATLAB, R, Visual Basic for Excel, GIS, internet, office, Unix (shell scripts), FORTRAN, NCO, Ferret, Latex

PUBLICATIONS & COMMUNICATIONS

Peer -reviewed journal article

- 2016 Peaucelle, M., Bellassen, V., Ciais, P., Peñuelas, J., & Viovy, N. (2016). A new approach to optimal discretization of plant functional types in a process-based ecosystem model with forest management: a case study for temperate conifers. *Global Ecology and Biogeography*.
- Fu, Y. H., Liu, Y., De Boeck, H. J., Menzel, A., Nijs, I., Peaucelle, M., ... & Janssens, I. A. (2016). Three times greater weight of daytime than of night-time temperature on leaf unfolding phenology in temperate trees. *New Phytologist*, 212(3), 590-597.
- Fu, Y. H., Piao, S., Ciais, P., Huang, M., Menzel, A., Peaucelle, M., ... & Zhao, H. (2016). Long-term linear trends mask phenological shifts. *International journal of biometeorology*, 60(11), 1611-1613.
- 2015 Declining global warming effects on the phenology of spring leaf unfolding. Fu, Y. H., Zhao, H., Piao, S., Peaucelle, M., Peng, S., Zhou, G., ... & Song, Y. (2015). *Nature*, 526(7571), 104-107.
- 2010 Comparison between accelerometer and kinematic techniques for the evaluation of hoof slip distance: a preliminary study. Holden L. et al. , *Computer Methods in Biomechanics and Biomedical Engineering*, 71-72.
- Biomechanical analysis of hoof landing and stride parameters in harness trotter horses running on different tracks of a sand beach (from wet to dry) and on an asphalt road. Château H. et al., International Conference on Equine Exercise Physiology, Cape Town

Reports

- 2015 Polémique autour du « carbone neutre » : quels leviers à la disposition des gestionnaires forestiers pour l'atténuation du changement climatique ? Deleuze, C., Micheneau, C., Peaucelle, M., Rakotoarison, H., Boulanger, V., Dhôte, J.F., Gibaud, G., Pousse, N., Rousselle, Y., Chopard, B., François, D., Legay, M., Richter, C., Morneau, F., Le Boulter, H., Cornu, S., Rubio, M., Conche, J. *Rendez-vous technique n°48-49 de l'Office National des Forêts*, p.48-53.
- Gestion Forestière et changement climatique: Comment contribuer à l'atténuation? Deleuze, C., Micheneau, C., Peaucelle, M., Rakotoarison, H., Boulanger, V., Dhôte, J.F., Gibaud, G., Pousse, N., Rousselle, Y., Chopard, B., François, D., Legay, M., Richter, C., Morneau, F., Le Boulter, H., Cornu, S., Rubio, M., Conche, J. Made for the COP21.

PERSONAL INTEREST

- Sports Horse-riding, running, sliding sports, aikido
- Travels Western Europe, Guyana, Brazil, Iceland, Colombia
- Music Drums and percussion
- Others Wood working, electronic/automation