

JULIEN BARRERE

PhD in forest ecology

»»» EXPERIENCE

PhD Student INRAE - Champenoux, 2018/09 - now

- » Design experimental protocols, conduct field work, frequentist and Bayesian statistical analyses, modelling, write scientific articles, supervise interns

Teaching assistant Agroparistech - Nancy, 2020/11 (12 hours)

- » Give lectures for a group of 13 master student on GIS, and supervise tutorials with ArcGIS

Visiting researcher SLU - Alnarp (Sweden), 2020/01 - 2020/03

- » Fundraising, set up a collaboration with local researchers on several projects

Research engineer French Agency for Biodiversity - Brest, 2018/01 - 2018/07

- » Scientific project aiming at modelling cumulative effects of anthropogenic pressures on marine ecosystems
- » Optimize the model source code (R language), implement the assessment of uncertainties, cartography with PostGIS

Research Assistant CEFE - Montpellier, 2017/03 - 2017/08

- » Internship on the influence of climate and deer browsing on fir, beech and spruce functional leaf traits

Research Assistant Lajuma Research Center - South Africa, 2016/03 - 2016/07

- » Internship on the role of civets in seed dispersal in a subtropical forest

»»» EDUCATION

PhD in Forest Ecology University of Lorraine - Nancy, 2018 - 2021

- » Topic: Influence of wild ungulates on the regeneration of plain hardwood forests

M.Sc in Ecology University of Burgundy - Dijon, 2015 - 2017

- » Conservation biology, population dynamic, genetic, science history

Agronomist engineer degree Agrosup Dijon, 2014 - 2017

- » Crop and livestock production, environmental law, statistics, GIS, management, foreign languages

Preparatory class for higher education Lycée Lakanal - Sceaux, 2012 - 2014

- » Biology, physic, chemistry, mathematics

»»» OTHER ACTIVITIES

Humanitarian project Limpopo province (South Africa), 2016

- » Fundraising, and set up of a greenhouse in the preschool of Tswelopele

Worker in a vineyard Villié-Morgon, 2014 (6 weeks)

Private math tutor Courbevoie, 2012



CONTACT

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LANGUAGES

French

English

Spanish

SOFTWARES

R Studio

ArcGIS, QGIS

PostgreSQL

PROGRAMMING

R

LaTeX

Python

Java

INTERESTS

Sports (Rugby, Taekwondo, Hiking)

Music (Guitar, Ukulele)

Travels

Nature photography

REFERENCES

Sonia SAID (OFB)

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Vincent BOULANGER (ONF)

vincent.boulanger@onf.fr - 0628474330

Barrere, J., Reineking, B., Jaunatre, M., Kunstler, G. Forest resilience to storm disturbances depends on interplay between functional composition and climate. *Functional Ecology (in revision)*.

Bernard, M., **Barrere, J.**, Morin, X., Said, S., Boulanger, V., Granda, E., Benavides, R., Jactel, H., Heurich, M., Rabasa, S. G., Valladares, F., Kunstler, G. Elevation affect both the probability of ungulate browsing and its effect on tree seedling growth. *Annals of forest science (under review)*.

Barrere, J., Ligot, G., Boulanger, V., Collet, C., Courbaud, B., de Coligny, F., Marell, A., Said, S., Balandier, P. Oak regeneration facing deer browsing : can competition between saplings offset the diversion effect ? A simulation experiment. *Ecological modelling (under review)*.

Kulha, N., Honkaniemi, J., **Barrere, J.**, Brandl, S., Cordonnier, T., Korhonen, K., Kunstler, G., Paul, C., Reineking, B., Peltoniemi, M. (2023). Competition-induced tree mortality across Europe is driven by shade tolerance, proportion of conspecifics and drought. *Journal of Ecology*. <https://doi.org/10.1111/gcb.16630>

Barrere, J., Reineking, B., Cordonnier, T., Kulha, N., Honkaniemi, J., Peltoniemi, M., Korhonen, K., Ruiz-Benito, P., Zavala, M., Kunstler, G. (2023). Functional traits and climate drive interspecific differences in disturbance-induced tree mortality *Global Change Biology*. <https://doi.org/10.1111/gcb.16630>

Barrere, J., Collet, C., Said, S., Bastianelli, D., Verheyden, H., Courtines, H., Bonnet, A., Segrestin, J., Boulanger, V. (2022). Do trait responses to simulated browsing in *Quercus robur* saplings affect their attractiveness to *Capreolus capreolus* the following year? *Experimental and Environmental Botany*. 194:104743. <https://doi.org/10.1016/j.envexpbot.2021.104743>

Löf, M., **Barrere, J.**, Petersson, L. K., Engman, M., Villalobos, A. (2020). The influence of fencing on seedling establishment during reforestation of oak stands: A comparison of artificial- and natural regeneration techniques including costs. *European Journal of Forest Research*. 140: 807-817. <https://doi.org/10.1007/s10342-021-01369-w>

Barrere, J., Petersson, L. K., Boulanger, V., Collet, C., Felton, A. M., Löf, M., Said, S. (2020). Canopy openness and exclusion of wild ungulates act synergistically to improve natural regeneration of oak. *Forest Ecology and Management*. 487: 118976. <https://doi.org/10.1016/j.foreco.2021.118976>

Barrere, J., Boulanger, V., Collet, C., Walker, E., Siat, V., Henry, L., Said, S. (2020). How does oak mast seeding affect the feeding behavior of sympatric red and roe deer ? *Basic and Applied Ecology*. 47: 83-94. <https://doi.org/10.1016/j.baae.2020.04.006>

Quemmerais-Amice, F., **Barrere, J.**, La Rivière, M., Contin, G., Bailly, D. (2020). A methodology and tool for mapping the risk of cumulative effects on benthic habitats. *Frontiers in Marine Science*. 7: 966. <https://doi.org/10.3389/fmars.2020.569205>

Barrere, J., Said, S., Boulanger, V., Morin, X., Rowe, N., Amiaud, B., Bernard, M. (2019). The cost of deer to trees: changes in resource allocation from growth-related traits and chemical defence to structural defence. *Plant Ecology and Evolution*. 152: 417-425. <https://doi.org/10.5091/plecevo.2019.1593>

Blouin, M., **Barrere, J.**, Meyer, N., Lartigue, S., Barot, S., Mathieu, J. (2019). Vermicompost significantly affects plant growth. A meta-analysis. *Agriculture for Sustainable Development*.39:34. <https://doi.org/10.1007/s13593-019-0579-x>