# MAXIMILIAN LARTER

I am a plant ecophysiologist and an evolutionary biologist, mainly interested is how plants water transport functions and evolves within changing environments.

## RESEARCH EXPERIENCE

#### Post-doctoral Fellow

Naturalis Biodiversity Center Leiden, The Netherlands present - 2019 -Herb hydraulics, positive root pressure and drought resistance in Brassicaceae - Supervisor Frederic Lens ### Post-doctoral Fellow Smith labUniversity of Colorado Boulder, Colorado 2019 - 2017 -Evolution of the anthocyanin pathway in lochrominae - Supervisor Stacey Smith [link to Smith lab homepage] ### PhD student University of Bordeaux Bordeaux, France 2016 - 2012 - Evolution of cavitation resistance in conifers - Supervisors Sylvain Delzon and Jean-Christophe Domec ### Research assistant - 6 months University of Bordeaux Bordeaux, France 2012 - Evolutionary patterns of cavitation resistance in conifers - Supervisor Sylvain Delzon ### Masters thesis - 6 months University of Bordeaux, France 2011 - Convergent evolution of drought tolerance in conifers -Supervisor Sylvain Delzon ### Masters thesis - 2 months Imperial College London Silwood Park, Ascot, UK 2010 - Population genetics of the olive (Olea europaea) complex - Supervisor Guillaume Besnard

### **EDUCATION**

### PhD in evolutionary, functional and community ecology

University of Bordeaux Bordeaux, France 2016 - 2012 - Evolution of cavitation resistance in conifers - Supervisors Sylvain Delzon and Jean-Christophe Domec ### Masters degree, "Bordeaux, France", 2010, 2011, Terrestrial Ecosystem Functioning and Modelling., NA. education. NA University of Orléans, Bachelors degree University of Bordeaux Orléans, France 2008 - 2005 - Organismal Biology



## ☐ GRANTS ☐ FUNDING

#### Alberta Mennega Stichting fieldwork grant

1,250€ Leiden (The Netherlands) 2020

#### External mobility grant from the COTE Cluster of Excellence

3,000€ Bordeaux (France) 2014

#### Research Exchange Program (Inbound)

AU\$3350 Western Sydney University, NSW (Australia)



## Lecture (30 min) - Functional traits case study

MSc course Methods in Biodiversity Analysis Leiden University 2020

### CONTACT

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- github.com/maxlarter
- <i class="birthday-cake> August 5th, 1987, Derby (UK)

Last updated on 2021-01-18.

#### Practical - plant physiology "lab day"

MSc course Plant Physiology Université de Bordeaux 2012



Intervessel pit membrane thickness best explains variation in embolism resistance amongst stems of Arabidopsis thaliana accessions, Annals of Botany

A Thonglim, S Delzon, M Larter, O Karami, A Rahimi, R Offringa et al. N/A 2020

Multiple origins of insular woodiness on the Canary Islands are consistent with palaeoclimatic aridification, bioRxiv

AH van Huysduynen, S Janssens, V Merckx, R Vos, L Valente, A Zizka, M Larter et al. N/A

Developmental control of convergent floral pigmentation across evolutionary timescales, Developmental Dynamics

M Larter, A Dunbar-Wallis, AE Berardi, SD Smith N/A 2019

Repeated evolution of a morphological novelty: a phylogenetic analysis of the inflated fruiting calyx in the Physalideae tribe (Solanaceae), American Journal of Botany

R Deanna, M Larter, GE Barboza, SD Smith N/A

Convergent evolution at the pathway level: predictable regulatory changes during flower color transitions, Molecular Biology and Evolution

M Larter, A Dunbar-Wallis, AE Berardi, SD Smith N/A 2018

Aridity drove the evolution of extreme embolism resistance and the radiation of conifer genus Callitris, New Phytologist

M Larter, S Pfautsch, JC Domec, S Trueba, N Nagalingum, S Delzon N/A 2017

Mexican conifers differ in their capacity to face climate change, Journal of Plant Hydraulics

C Sáenz-Romero, M Larter, N González-Muñoz, C Wehenkel et al. N/A

Host range expansion is density dependent, Oecologia

B Castagneyrol, H Jactel, EG Brockerhoff, N Perrette, M Larter, S Delzon et al N/A 2016

The evolution of cavitation resistance in conifers PhD thesis

M Larter Université de Bordeaux

Extreme aridity pushes trees to their physical limits, Plant Physiology

M Larter, TJ Brodribb, S Pfautsch, R Burlett, H Cochard, S Delzon N/A 2015

A broad survey of hydraulic and mechanical safety in the xylem of conifers, Journal of Experimental Botany

PS Bouche, M Larter, JC Domec, R Burlett, P Gasson, S Jansen, S Delzon N/A 2014



# Poster – $\ll$ Genetic basis of convergent evolution of the anthocyanin pathway and floral pigmentation in Iochrominae $\gg$

Society for Integrative and Comparative Biology Tampa, Florida 2019

# Talk – « Linking changes in gene expression to the macroevolution of flower color in Iochrominae (Solanaceae) »

Evolution Meeting Portland, Oregon 2017

#### Talk - « Evolution of drought tolerance in conifers - Callitris in Australia »

LabEx Day (LabEx COTE) Bordeaux (France) 2015

# Talk – « The evolution of cavitation resistance in conifers and the case of world-record Callitris $\gg$

Xylem International Meeting N/A

#### Talk - « The evolution of cavitation resistance in Conifers »

HIE Seminar Series - UWS Richmond, NSW (Australia) 2014

#### Poster - « Global variation and evolution of drought tolerance in Conifers »

Journées de la Société Française de Systématique Paris (France) 2012