

# Max Larter's CV

Max Larter

2021-01-17

## Aside

### Contact

- maximilian.larter@gmail.com
- [@MaxLarter](twitter.com/MaxLarter)
- github.com/maxlarter
- maxlarter.github.io
- *<i class="birthday-cake">* August 5th, 1987, Derby (UK)

### Disclaimer

Last updated on 2021-01-17.

## Main

### Maximilian Larter

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

### Research Experience

#### Post-doctoral Fellow

Naturalis Biodiversity Center Leiden, The Netherlands N/A - 2019 - Herb hydraulics, positive root pressure and drought resistance in Brassicaceae - *Supervisor* Frederic Lens ### Post-doctoral Fellow Smith lab University of Colorado Boulder, Colorado 2019 - 2017 - Evolution of the anthocyanin pathway in Iochrominae - *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 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 ### Master's degree University of Bordeaux Bordeaux, France 2011 - 2010 - Terrestrial Ecosystem Functioning and Modelling ### Bachelor's degree University of Orleans Orleans, France 2008 - 2005 - Organismal Biology

## Grants & Funding

### Alberta Mennega Stichting fieldwork grant

1,250<U+0080> Leiden (The Netherlands) 2020

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

3,000<U+0080> Bordeaux (France) 2014

### Research Exchange Program (Inbound)

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

## Teaching Experience

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

MSc course Methods in Biodiversity Analysis Leiden University 2020

### Practical - plant physiology “lab day”

MSc course Plant Physiology Universit de Bordeaux 2012

## Publications

### 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 N/A - 2020

### *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 N/A

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

C Senz-Romero, **M Larter**, N Gonzalez-Muoz, C Wehenkel et al. N/A

## **The evolution of cavitation resistance in conifers PhD thesis**

**M Larter** Universit de Bordeaux

## **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

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

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

## **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

## **Host range expansion is density dependent, Oecologia**

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

## **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

## **Conferences & Presentations**

### **Poster - $\langle U+00AB \rangle$ Genetic basis of convergent evolution of the anthocyanin pathway and floral pigmentation in *Iochrominae* $\langle U+00BB \rangle$**

Society for Integrative and Comparative Biology Tampa, Florida 2019

### **Talk - $\langle U+00AB \rangle$ Linking changes in gene expression to the macroevolution of flower color in *Iochrominae* (Solanaceae) $\langle U+00BB \rangle$**

Evolution Meeting Portland, Oregon 2017

**Talk - <U+00AB> Evolution of drought tolerance in conifers - *Callitris* in Australia <U+00BB>**

LabEx Day (LabEx COTE) Bordeaux (France) 2015

**Talk - <U+00AB> The evolution of cavitation resistance in conifers and the case of world-record *Callitris* <U+00BB>**

Xylem International Meeting N/A

**Talk - <U+00AB> The evolution of cavitation resistance in Conifers <U+00BB>**

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

**Poster - <U+00AB> Global variation and evolution of drought tolerance in Conifers <U+00BB>**

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