



Lorène J. Marchand

I am interested in plant physiology in relation to the environment at both the phenotypic and the molecular levels,

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🌐 https://lormarchand.github.io/my_project/

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📄 Lorène Julia Marchand
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CURRENT POSITION

- **PhD student** 2018 – 2021
Ecole doctorale EGAAL, université de Rennes 1. Rennes. France.
Adaptive potential of Kerguelen's endemic species *Lyallia kerguelensis* to climate change
Student supervision: 2020 Master 2
PhD director: Dr. F. Hennion (CNRS) and co-supervisor Dr. M. Tarayre (University of Rennes 1)

NEXT POSITION

- **Post-doctoral** 2022 – 2023
ERC leaf fall, University of Antwerp, (PLECO), Antwerp, Belgium
Supervisor: Pr. Matteo Campioli

PREVIOUS RESEARCH

- **Erasmus+ Master thesis (8 months)** 2017 – 2018
University of Antwerp, Centre of Excellence Plants and Ecosystems (PLECO), Antwerp, Belgium and Slovenian forestry institute, Ljubljana, Slovenia
Inter-individual variability in spring phenology of leaves and wood of temperate deciduous trees
Supervisors: Pr. Matteo Campioli and Dr. Jozica Gricar.
- **Internship Master 1 (2 months)** 2017 Université d'Orléans,
Laboratoire des ligneux et des grandes cultures, Orléans, France
Dynamics of carbon storage in poplars with drought x fertilization interactions.
Supervisor: Dr. Régis Fichot

PUBLICATIONS

- 2021** **Marchand L.J.**, Tarayre M., Dorey T., Rantier Y., Hennion F. Morphological variability of *Lyallia kerguelensis* in relation to environmental conditions and geographical distribution in the Kerguelen Islands. *Polar biology*, DOI:10.1007/s00300-020-02768-2
- 2021** **Marchand L.J.**, Dox I, Gričar J, Prislan P, van den Bulcke J, Fonti P, Campioli M. Timing of spring xylogenesis in temperate deciduous tree species relates to tree growth characteristics and previous autumn phenology. *Tree Physiology*, DOI:10.1093/treephys/tpaa171
- 2020** **Marchand L.J.**, Dox I., Gričar J., Prislan P., Sebastien Leys, Van den Bulcke J., Fonti P., Lange H., Matthysen E., Peñuelas J., Zuccarini P., Campioli M. *Agricultural and forest meteorology*. DOI:10.1016/j.agrformet.2020.108031
- 2020** Dox I., Gričar J., **Marchand L.J.**, Sebastien Leys, Zuccarini P., Geron C., Prislan P., Mariën B., Fonti P., Lange H., Peñuelas J., Van den Bulcke J., Campioli M.. Timeline of autumn phenology in temperate deciduous trees. *Tree physiology*. DOI:10.1093/treephys/tpaa058
- 2019** Mariën B., Balzarolo M., Dox I, Leys S., **Marchand L.J.**, Geron C., Portillo-Estrada M., AbdElgawad H, Asard H, Campioli M. Detecting the onset of autumn leaf senescence in deciduous forest trees of the temperate zone. *New Phytologist*. DOI: 10.1111/nph.15991

COMMUNICATIONS

- 2021** World Microbe Forum (i-poster) 20th of June: A specific rhizomicrobiome selected by a long-lived plant in the sub-Antarctic Kerguelen Islands. **L.J. Marchand**, F. Hennion, M. Tarayre, M.-C. Martin, B. R. Martins and C. Monard
- 2020** CNFRA 22-23th September 2020 (oral presentation): Necrosis dynamics over time and space of *Lyallia kerguelensis* from individual to population scale. **L.J. Marchand**, M. Tarayre, L. Chambrin, D. Verfaillie, V. Favier and F. Hennion
- 2019** GDR plasphen: 28-29th November 2019 Paris, France (oral presentation): Morphological variability in relation to environmental conditions in the endemic cushion plant *Lyallia kerguelensis* from Kerguelen Islands. **L.J. Marchand**, M. Tarayre, T. Dorey, Y. Rantier and F. Hennion

EDUCATION

- **Master 2: integrative biology and climate change** 2017-2018
Université d'Orléans, Orléans, France
- **Master 1: Agri-sciences: forests and agrisystems** 2016-2017
Université d'Orléans, Orléans, France
- **Bachelor: Biology of organisms, population and environment** 2013-2016
Université d'Orléans, Orléans, France

OTHERS DIPLOMA

- Statistical data analysis: level 3, 30h** 2021
Ecole Pratique des Hautes Etudes (EPHE), Paris, France
- Research reproducibility: MOOC 25h** 2020
France Université Numérique, France

TEACHING EXPERIENCES

1st year of bachelor

Field excursions in the forest: forest ecology and botany (18 hours)

Tutorials: algae, phylogeny, biology and ecology (6 hours online)

Practical works: plant anatomy and adaptation (algae, moss, fern and angiosperm) (25 hours)

2nd year of bachelor

Practical works: angiosperm anatomy and reproduction (29 hours partly online)

3rd year of bachelor

Practical works: anatomy of plant adaptation to drought stress (10 hours)

SCIENTIFIC OUTREACH

- 2020 Vulgarisation for the University of Rennes 1 of the paper: Marchand. et al. 2021 (Polar Biology)
- 2020 Interview for the University of Rennes 1: PhD during the lockdown and afterward
- 2019 Ma Thèse en 180 secondes: Final Bretagne/ Pays de Loire
<https://www.youtube.com/watch?v=xFVOqZ6BngM&feature=youtu.be/>