
CAROLINE DANIEL

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Post doctoral researcher in Community Ecology

Work experience

- August 2019 - May 2024 PhD student on "plant species coexistence, impact of nutrients and pathogens on plant communities"
Community ecology group, Bern University
supervised by: Eric ALLAN, Oscar GODOY
- publications:
Daniel C., Allan E., Saiz H., Godoy O., Fast-slow traits predict competition network structure and its response to resources and enemies, *In prep.*
Daniel C., Godoy O., Allan E., Plant species route to coexistence: the impact of functional traits, resource and enemies, *In prep.*
- February 2018 - August 2018 Second year Master's internship on "remote sensing of sun induced chlorophyll fluorescence and reflectance to assess photosynthetic activity at leaf scale"
ESE, University Paris-Sud
supervised by: Kamel SOUDANI
- June 2017 - August 2017 Second first year Master's internship on "the protection of the alpine snowbell, *Soldanella alpina*, against UV radiation"
ESE, University Paris-Sud
supervised by: Peter STREB
- publication: Bidel, L. P., Meyer, S., Talhouët, A. C., Baudin, X., Daniel, C., Cazals, G., & Streb, P. (2020). Epidermal UVA screening capacity measured in situ as an indicator of light acclimation state of leaves of a very plastic alpine plant *Soldanella alpina* L. *Plant Physiology and Biochemistry*, 151, 10-20.
- February 2017 - May 2017 First year Master's internship on "the phylogeography of the african mongoose *Atilax paludinosus*"
Institut de Systématique, Evolution, Biodiversité, Muséum National d'Histoire Naturelle, Paris
supervised by: Géraldine VERON
- publication: Veron, G., Daniel, C., Pagani, P., Do Linh San, E., Kitchener, A. C., & Hassanin, A. (2023). A tale of two African mongooses (Carnivora: Herpestidae): differing genetic diversity and geographical structure across a continent. *Mammalian Biology*, 103(1), 37-52.

Education

- 2016 - 2018 Double Master degree in 'Biology, Ecology and Evolution' with a specialization in 'Biodiversity and ecosystem functioning, and ecological engineering', and in 'Biology and biotechnology'
University Paris-Saclay
- 2013 - 2016 Bachelor's degree in 'Biology of organisms and evolution' (BOE)
University Paris-Saclay
- 2012 - 2013 First year in Landscape engineering
Ecole Nationale Supérieure de la Nature et du Paysage, Blois
- 2011 - 2012 French Baccalaureate in Science (specialization in Biology)
Lycée Saint Thomas de Villeneuve, Chaville

Outreach

April 2023	Swiss global change day How do changes in agricultural treatments impact biodiversity? (poster)
February 2023	Biology23 Dynamic changes in plant competition, effect of nitrogen and pathogens on competition networks (session talk)
November 2022	Autumn School EcoSum "Thinking community ecology in the Anthropocene" How do resource and enemies impact plant competition? (poster)
August 2022	INTECOL22 Dynamic changes in plant species competition: a network approach in the Pathogen Nitrogen Diversity (PaNDiv) experiment (session talk)
May 2021	The consequences of indirect and higher order interactions for ecosystem functioning PaNDiv experiment - an introduction (member of the organisation committee and session talk)
December 2019	BES 2019 Impact of resources and enemies on plant species coexistence (poster)

Other workshop participations

- Critical transitions, early-warning signs, and coexistence theory (June 2022)
- Causal Inference for Biologist Graduate, Structural Equation Modelling (November 2019)

Teaching experience

Courses

Advanced ecology (session presentation and field project supervision)
Biodiversity Sustainability (session presentation and field project supervision)
R buddy club (organisation committee)

Supervision

- Master internship:
Mathis GHENO (April-August 2022)
- Bachelor student project:
Valentina MENDOZA (Spring semester 2023)
Jérôme BECHTOLD (Autumn semester 2022)
Eva BURGUNDER (Autumn semester 2021)
Vera ALESSANDRELLO (Spring semester 2020)
- Research practical:
Silja ELLER (Spring semester 2023)
Tatjana WEY (Autumn semester 2022)
Melanie CHRISTEN (Autumn semester 2021)

SKILLS

Coding: R, Matlab, QGIS

Languages: French (native), English: TOEIC score: 955 (C2 level), good practice of Spanish.