

## Daniela Francisca Cárdenas Araya

Date of birth: 26.07.1989  
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### Higher education

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2016-2018 **Master in Science in Behaviour, Evolution and Conservation (BEC). Université de Lausanne. Master thesis:** Are alpine plants constrained by biotic interactions at their warm limits? a test with field data and botanical garden records.

2013 **Engineer in Conservation of Natural Resources.** Universidad Austral de Chile, Valdivia, Chile.

### Work experience

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04.2017–02.2018 **Student assistant . Pannell Group.** Department of Ecology and Evolution. Faculty of Biology and Medicine. Université de Lausanne. Switzerland.

03.2015–08.2016 **Lecturer.** University INACAP. La Serena, Chile. (Natural Heritage Interpretation, Sustainable Tourism Techniques II).

09.2015–07.2016 **Technician.** Climate Change and Paleoecology Laboratory. Centro de Estudios Avanzados en Zonas Áridas (CEAZA). La Serena, Chile.

10.2015–01.2016 **Technician and Field Assistant.** Hydrology Laboratory. Centro de Estudios Avanzados en Zonas Áridas (CEAZA). La Serena, Chile.

11.2013–01.2015 **Technician.** Climate Change and Paleoecology Laboratory. Centro de Estudios Avanzados en Zonas Áridas (CEAZA). La Serena, Chile.

2011–2013 **Field Assistant.** Canopy Biodiversity and Ecology Laboratory. Engineering School of Natural Resources Conservation. Universidad Austral De Chile. Valdivia, Chile.

### Internships and specialised courses

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2018 **Formation WWF.** Au fil de l'eau. WWF Suisse Camps Nature. Lausanne. Switzerland

2016 **Outdoor Educator.** National Outdoor Leadership School Patagonia (NOLS). (Leadership, outdoor skills, environmental studies, risk management and leave no trace techniques).

2016 **Wilderness First Responder-WFR.** Wilderness Medicine Institute, National Outdoor Leadership School (NOLS).

2012 **Environmental Education.** Universidad Austral De Chile.

2012 **Sports and Activities in wilderness.** Universidad Austral De Chile.

2012 **Internship.** Forestal Mininco S.A. Los Ángeles, Chile. (Research and field work, conservation value through FSC certification guidelines).

- 2011 **Permaculture.** Universidad Austral De Chile.
- 2011 **Research Photography .** DAE. Universidad Austral De Chile.
- 2010 **Basin Hydrology.** Universidad Austral De Chile.
- 2009 **Internship.** Futangue Private Park. Futangue, Chile. (Field work, local flora of the park).

### Project involvement

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- 2015 **Field assistant.** Project: Grazing by large herbivores has short-term effects on plant species richness or composition in high Andean peatlands. Plant Ecophysiology Laboratory, Universidad de La Serena.
- 2013 **Lecturer.** Regional conference of science and technology for primary school students. Explora CONICYT. Valdivia, Chile.
- 2012 **Lecturer.** Project: Learning the value of biodiversity from acoustic landscape and its implications for everyday life. Explora CONICYT project, environmental education for High School students. Valdivia, Chile.
- 2012 **Lecturer.** Project: Community science in Ríos Region: developing a bird monitoring program in conjunction with the lake monitoring and environmental committee of Panguipulli. Panguipulli, Chile.
- 2012 **Lecturer.** Itinerant botanical garden University Austral of Chile.(Exponent of the temperate rainforest botanical collection). Teaching environmental education to High School students. Región de los Ríos, Chile.
- 2012 **Monitor.** II Villarica science fair. Workshop coordinator for Primary and High School students. Villarica, Chile.

### Languages

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**Spanish:** native.

**English:** fluent (TOEFL IBT 95/120 in 2014).

**French:** upper intermediate B2

### Publications

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Carrevedo M.L., Frugone M., Latorre C., Maldonado A., Bernárdez P., Prego R., **Cárdenas D.**, Valero-Garcés B.L. (2015). A 700-year record of climate and environmental change from a high Andean lake: Laguna del Maule, central Chile (36°S). *The Holocene*, 1-17.

### IT skills

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Operating system: Linux, Windows, IOS.

Software: Adobe premier, Windows Office, Libre Office, R Project, Tilia, SPSS, EstimateS, Geographic Information Systems (ArcGIS and QGIS).

### Membership and affiliations

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Latin American Association of Forestry Students (ALECIF).  
College of Natural Resources Engineers in Chile (CIRNACH).  
IUCN Commission on Education and Communication (CEC).  
Club Montagne de l'EPFL.

## Field experience

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Field research in different landscapes for monitoring, analyzing and collecting data and samples:

2017. Zermatt, Valais, Switzerland.

- Workshop Leave No Trace.

2017. Combe des Amburnex, Jura, Switzerland.

- Sediment core recover.

2012–2016. Patagonia. Chile-Argentina

- Wilderness Leadership strategies.
- Environmental education
- Risk management.

2014–2016. The arid and semiarid regions of northern Chile.

- Hike workshops of sustainable tourism.
- Sediment core recover in high Andean lakes.
- Water samples.
- Pollen tramps collection.
- Roots collection.
- Plant collection in highland peatlands.

2015. Tapado Glaciar Area, high Andes, Chile.

- Analyzing and monitoring water quality.
- Water samples.

2014. Atacama desert, Chile.

- Sediment core recover in high Andean lakes.
- Plant collection.

2011–2013. Temperate Rainforest South of Chile.

- Tree climb techniques for identification and plant collection in the canopy crane.
- Bird monitoring.

## Ad-Honorem activities

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- Field assistant. Jardin botanique de Lausanne, Switzerland. 2017.
- Coordinator and organization at X Latin American conference of private reserves and originary people. Así Conserva Chile. Valdivia, Chile. 2013.
- English to Spanish translation of papers presented at the sustainable energy world congress Quito, Ecuador 2012. UNV programme-PNUD, Nordic Ecuadorian Chamber of Commerce. Online. 2013.
- Teaching environmental education to different institutions from Región de los Ríos. NGO Grener. Valdivia, Chile. 2010.
- Advising the local community in environmental topics. The Nature Conservancy (TNC) Coastal Reserve Area. Chaihuín, Chile. 2009.
- Trail and shelter construction in the project coastal restoration of the protected area Punta Curiñanco. CODEFF and Simbiosis. Valdivia, Chile. 2008.

## Reference

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**Prof. Antoine Guisan**

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**PhD. Christophe Randin**

*Musée et jardins botaniques cantonaux de Lausanne*

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                 christophe.randin@vd.ch  
                 Phone: +41 21 316 99 91

**Prof. Jake Alexander**

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