

# Curriculum Vitae Lucia Cabrera-Lamanna

## **Lucía Cabrera-Lamanna**

Age: 29 years

Place and birth date: Montevideo, Uruguay. Feb 20, 1992

Telephone: (530)5416923

Education: MSc. Geosciences/ Bach. Biology Sciences

Email: [luu.cab@gmail.com](mailto:luu.cab@gmail.com)



## **Profile:**

Interest and experience in aquatic systems ecology, specifically in greenhouse gases emissions, chemical studies of water quality, interactions with land use and riparian vegetation.

Experience in:

Chemical analysis of water quality, substrates and plant tissues;

Microcosm experiments with macrophytes and phytoplankton and measurements of environmental CO<sub>2</sub>;

Herbariums and recognition of native flora of Uruguay.

Advanced knowledge of the “R” software and ARC GIS.

## **University Education**

### **-Concluded:**

2018-2020. Masters Degree in Geosciences (PEDECIBA, Uruguay).

Final work title: Buffer effect of riparian vegetation: case of Paso Severino reservoir.

Supervisors: PhD Mariana Meerhoff & PhD Lorena Rodríguez

2011-2017. Bachelor's Degree in Biological Sciences at Universidad de la Republica, Uruguay.

Final work title: “Effect of afforestation on water quality. From a global to a local vision”

March 2017. Supervisors: PhD Mariana Meerhoff & PhD Iván González-Bergonzoni

## **Complementary academic courses**

2020- Analysis of cover change and land use with R Studio at MasterGIS

2020- Arc GIS at MasterGIS

2019- Introduction to Geographic Information Systems (GIS) applied to conservation, environment and natural resources at Vida Silvestre

2019- Geosciences Workshop at UdelaR, Uruguay

2019- Advanced Statistics and It's Applications at UdelaR, Uruguay

2019- The Climate System at UdelaR, Uruguay

2018- Biogeochemistry of river systems at Universidad Nacional de Lujan, Argentina.

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- 2018- Dynamics of the Earth at UdelaR, Uruguay
- 2018- Oceanography and Limnology at UdelaR, Uruguay
- 2018- Isotopic Environmental Ecology at UdelaR, Uruguay
- 2018- Eutrophization and Environmental Biogeochemistry of Phosphorus at UdelaR, Uruguay
- 2018- Principles of remote sensing: Applied to Environmental and Agricultural Sciences at UdelaR, Uruguay
- 2018- Knowledge and recognition of Indigenous Flora at Museo y Botanical Garden of Montevideo.
- 2016-Monitoring & assessment to support freshwater management at UdelaR, Uruguay
- 2015- How to write and publish a scientific article, at UdelaR, Uruguay. By PhD Matthias Seaman.
- 2015- Calculation and Management of the Water Footprint at UNIT, Uruguay.
- 2011- Marine Turtles Conservation at KARUMBE, Uruguay

Languages: Spanish native; English

### **Research experience:**

2020- 2021. "From the nature to our table: ecologic, economic & social footprint of the Uruguayan food" Universidad de la República. Responsible: Mariana Meerhoff & Rafael Bernardi. Activities: Search the footprint data.

2018-2019. "Exchange of information on the evaluation of phosphorus dynamics in buffer zones of the Paso Severino reservoir. Proposals for management alternatives to reduce diffuse contributions of this nutrient in order to improve the water quality of the Santa Lucía River". DINAMA-CURE. Responsible: Mariana Meerhoff & Lorena Rodriguez. Activities: Co-responsible for sampling and analyzing water quality in surface and subsurface runoff samples. Responsible of the vegetation sampling.

2019. "Effects of warming on shallow lakes phytoplankton communities". Activities: Water sampling and physico-chemical laboratory analysis & greenhouse gas CO<sub>2</sub> sampling. The emission of the greenhouse gas CO<sub>2</sub> and the changes in the community were evaluated through a 1-month lab experiment.

2019. "Effects of warming and eutrophication on a native macrophyte (*Egeria densa*) development". Activities: Water sampling and physico-chemical laboratory analysis; plant tissue analysis & greenhouse gas CO<sub>2</sub> sampling. The emission of the greenhouse gas CO<sub>2</sub> were evaluated through 1-month lab experiment.

2018. Collaboration with the summer sampling in Laguna del Sauce, Maldonado, Uruguay. Responsible: PhD Néstor Mazzeo. Activities: taking samples once a week of water, phytoplankton and zooplankton in 6 different sites in the lagoon.

2015. Projects " Effects of afforestation on the water quality of headwater streams in Uruguay " PEDECIBA GEOCIENCIAS. Activities: Water sampling and laboratory analysis.

2016. "Trophic role of the algal periphyton at shallow lakes of the Uruguayan Atlantic coast ". PAIE-CSIC. Responsible: Juan Pablo Pacheco.

2015. Botanic course assistant at Agronomy School. Activities: Herbarium maker and assistant in the field work.

### **Scientific production:**

#### **Peer-reviewed publications**

C. Calvo, G. De León, L. González Carreira, S. Costa, **L. Cabrera-Lamanna**, A. Castagna, L. Rodríguez-Gallego, M. Meerhoff, 2020. Metodología para el monitoreo subsuperficial de aportes de nutrientes a sistemas hídricos, Embalse de Paso Severino, Uruguay. ALHSUD. Asociación Latinoamericana de Hidrología Subterránea Para El Desarrollo.

Brugnoli, E., Arocena, R., **Cabrera-Lamanna, L.**, Muniz, P. 2021. Trophic state indexes in the northern coast of Rio de la Plata: suggestions for management and monitoring of Target (Marine Pollution). Journal: Springer nature. Encyclopedia of the UN Sustainable Development Goals. Life Below Water.

**Cabrera-Lamanna L.**, Rodríguez-Gallego, L., Calvo, C., de Leon, G., Castagna, A., Gonzalez, L., Costa, S., Meerhoff, M. in prep. Secondary effect of the cattle exclusion at the buffer zones in the reservoir Paso Severino: the potential nutrient supply of the necromass.

Calvo, C., **Cabrera-Lamanna, L.**, De León, G., Castagna, A., Costa, S., González, L., Rodríguez-Gallego, L. & Meerhoff, M. in prep. Phosphorus retention by three different buffer zones in superficial runoff and subsurface water.

Moresco, G., J. Deo Días., **Cabrera-Lamanna, L.**, Baladan, C. & Meerhoff, M. 2021. Warming promotes cyanobacteria populations and higher CO2 emissions.

Calvo, C., Cuassolo, F., Colina, M., **Cabrera-Lamanna, L.** & Meerhoff, M. In prep. Performance of a native submerged macrophyte and its effects on the carbon cycle: contrasting scenarios of temperature and trophic status.

#### **Presentations in scientific meetings**

**Cabrera-Lamanna L.**, Rodríguez-Gallego, L., Calvo, C., de Leon, G., Castagna, A., Gonzalez, L., Costa, S., Meerhoff, M. 2020. Role of buffer zones for nutrient load mitigation: potential nutrient supply by non-grazed plant litter. Shallow Lakes 2021 -Oral presentation.

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**Cabrera-Lamanna L.**, Rodríguez-Gallego, L., Calvo, C., de Leon, G., Castagna, A., Gonzalez, L., Costa, S., Meerhoff, M. 2020. Secondary effect of the cattle exclusion at the buffer zones in the reservoir Paso Severino: the potential nutrient supply of the necromass. X Congress of the Latinoamerican Network of Environmental Sciences-Oral presentation.

**Cabrera-Lamanna L.**, Rodríguez-Gallego, L., Calvo, C., de Leon, G., Castagna, A., Gonzalez, L., Costa, S., Meerhoff, M. 2019. Rol buffer of the riparian vegetation: case of Paso Severino reservoir. 6th Conference on Farming Systems Design (FSD6)- Poster presentation

**Cabrera-Lamanna L.** 2018. Efectos de la forestación sobre la calidad de agua de arroyos de planicie de Uruguay. Bachelor's final work- Oral presentation.

Teixeira de Mello, F.; Simón, C.; Burwood, M.; **Cabrera-Lamanna, L.**; Fosalba, C. & M. Meerhoff. 2018. Forestación, calidad de agua y fauna acuática Uruguay. V Congreso Uruguayo de Zoología – Symposium.

Gonzalez-Madina, L., **Cabrera-Lamanna, L.** 2016. Rol trófico del perifiton algal de lagos someros de la costa atlántica uruguaya. Event: PAIE- CSIC - Poster