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Education

- PhD. Student (started August, 2019). Soil Science, Department of Agronomy, Iowa State University, IA, USA.

Title thesis: Soil Change: From the lab to the map

Adviser: Bradley A. Miller

- M.Sc., Soil Science, Universidad de la Republica, Facultad de Agronomia, Montevideo, Uruguay, December 2017.

Title thesis: Nutrient extraction by 4 years old *Eucalyptus dunnii* plantations for energy and cellulose production

Advisers: Jorge Hernandez, Amabelia del Pino

- Euroforester Master Program, Swedish University of Agricultural Sciences, 2011-2012.

Advisers: Per Magnus Eko, Erik Agestam

- B. Sc., Agronomy Engineering, Universidad de la República, Facultad de Agronomia, Montevideo, Uruguay, August 2009

Title Thesis: Study of the F1 behavior in interspecific hybrids species of *Eucalyptus grandis* W. Hill ex Maiden x *Eucalyptus globulus* Labillardière and of *Eucalyptus grandis* W. Hill ex Maiden x (*Eucalyptus urophylla* S. Blake x *Eucalyptus globulus* Labillardière).

Job Positions

- 2013 - 2019 Teaching Assistant in Edaphology, Soil Management and Conservation, Silviculture. Universidad de la República, Montevideo, Uruguay.
- 2014-2016 Ministry of Agriculture-Forest Service. Professional activities in the forest plugs and diseases division.
- 2010-2011 Forest inventories in Pike Forest Consultant.
- 2009-2010 Montevideo Government, Department of Environmental Development.
- 2000-2010 Production supervisor in Bentancor & Bossio winery.

Published Journal Papers

- Rotation length of intensive Eucalyptus plantations: How it impacts on productive and energy sustainability. Fernando Resquin, Luis Bentancor , Leonidas Carrasco-Letelier, Cecilia Rachid-Casnati, Rafael M. Navarro-Cerrillo. Biomass and Bioenergy 166 (2022) 106607. <https://doi.org/10.1016/j.biombioe.2022.106607>.
- Verification of deep root exploration of Eucalyptus grandis to permian sedimentary rocks of northeastern Uruguay. S. M armol, **L. Bentancor**, M. Francia, A. Hirigoyen, M. Perez Bidegain, M. Blanco, M. Perez. Agrociencia. 26(508) (2022).
- Evaluation of the nutrient content in biomass of Eucalyptus species from short rotation plantations in Uruguay. Fernando Resquin, Rafael M. Navarro-Cerrillo, LeonidasCarrasco-Letelier, CeciliaRachid Casnati, **Luis Bentancor**. Biomass and Bioenergy. 134 (2020) 105502. <https://doi.org/10.1016/j.biombioe.2020.105502>.
- Evaluation of the biomass production, energy yield and nutrient removal of Eucalyptus dunnii Maiden grown in short rotation coppice under two initial planting densities and harvest systems. **Luis Bentancor**, Jorge Hernández, Amabelia del Pino, Álvaro Calífra, Fernando Resquín, Pablo González-Barrios. Biomass and Bioenergy. 122(2019) 165-174. <https://doi.org/10.1016/j.biombioe.2019.01.019>.

Journal Reviews

- 2019 – Biomass and Bioenergy

Grants

- Change Detection of Soil Carbon Stocks from Legacy Data USDA-NRCS. \$298,951. 2022-2024. Bradley Miller, Luis Bentancor, Meyer Bohn.

Soil health indicators in areas affected by Dakota Access Pipeline. USDA-SARE North Central Region. 2021-2023. \$ 15,000. Luis Bentancor, Bradley Miller.

Participation in Research Projects

- 2017-2019 “Desafios Project”. Physic-hydrological characterization of the dominant soils in order 3 basins, in order to incorporate these parameters into hydrological models. : Luis Silveira , Gimena Alonso , Mario Pérez Bidegain , Leticia Martínez Faira , **Luis Francisco Bentancor Bossio**.
- 2018 Geological cartography as a methodology for the characterization of management units in forestry systems. Sebastian Marmol, Mario Pérez Bidegain, **Luis Francisco Bentancor Bossio**
- 2016 Evaluation of some physical and chemical soil properties at the end of second rotations on commercial *Eucalyptus sp.* Plantations. Maximiliano Marshall, Horacio Rojas, Mario Pérez Bidegain, **Luis Francisco Bentancor Bossio**.
- 2016-2017 Exploratory study of the development of hydrophobicity under forest systems. Mario Pérez Bidegain, **Luis Francisco Bentancor Bossio**.
- 2014-2015 Estimated map of the sediment production (erodibility) of the soil in Rio de la Plata Basin. Mario Pérez Bidegain, Fernando García Préchac, Mario Michelazzo, **Luis Francisco Bentancor Bossio**.
- 2012-2015 Specific Site management on *Eucalyptus sp.* replanting. Mario Pérez Bidegain, **Luis Francisco Bentancor Bossio**.

Research Interest

- Soils, programing, remote sensing, machine learning and spatial analysis to improve soil maps; Soil Management and Conservation; Nutrient cycling in forest ecosystems; Forestry.

Presentations at Professional Meetings and Symposia

- 2022. Iowa Water Conference. Dubuque, IA, USA. “How has the mollic epipedon thickness changed in Iowa?”.

- 2021. ASA, CSSA, SSSA International annual meeting. A creative economy for sustainable development. Salt Lake City, UT, USA. “*Challenges of Digital Soil Mapping When Using Legacy Data*”.
- 2018. Río18 21st. World Congress of Soil Science. “*Nutrient extraction by the biomass of Eucalyptus dunni Maiden grown in short rotation coppice for bioenergy.*”
- 2015. Forest biomass Meeting. National Institute of Agricultural Research of Uruguay. “*Nutrient extraction by 4 years old Eucalyptus dunnii plantations for energy and cellulose production*”
- 2014. First Uruguayan Soil Congress “*Specific site management of Eucalyptus plantations in Uruguay*”

Professional Societies

- Member of the Agronomy Club at Iowa State University (Seminar Chair) (2021)
- Member of the Uruguay Soil Science Society (2014)
- Member of the Uruguayan Phytopathology Society (2014)

Linguistic Skills

- Native Spanish
- Advanced English
- Fluent Portuguese

Honors

- 2021. Gamma Sigma Delta, The Honor Society of Agriculture. For outstanding academic record.
- 2018. Award for the Best Master Thesis in Agronomy by the National Academy of Engineering of Uruguay.