

# Sara Acevedo

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*PhD student*



## About me

- I am currently finishing my PhD in Engineering Science.
- My research is gathering data from soil science and environmental studies, to derive statistical analysis and predictive models.
- I teach introductory data science classes using R.



## Education

- 2016-2022 **PhD (c) Engineering Sciences**, *Pontificia Universidad Católica de Chile*, Santiago, Chile.
- 2012-2014 **Master of Science, Soil and Biogeochemistry**, *University of California-Davis*, Davis, USA.
- 2003-2009 **Chemist, Environmental and Analytics specialization**, *Pontificia Universidad Católica de Chile*, Santiago, Chile.



## Work

- 2022 **Education**, *Course Facilitator: Introduction to Tidyverse for Data Science at Estacion Lastarria*.
- 2020 - 2021 **Education**, *Course maintainer MOOCs Coursera UC: Intro to programming (Python) and University training and learning*.
- 2018 - 2020 **Education**, *TA Environmental Biophysics at Pontificia Universidad Católica de Chile*.
- 2018 - 2019 **Research**, *Project evaluation focused on soil physical properties and environmental baselines for water treatment facilities at Desalsolar*.

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## Tools

-  Programming:
  - R – Python (basic)
-  Software:
  - Rstudio – ArcGis (basic) – Zotero – Hydrus 1-D
-  Statistics
  - Modelation (linear models and machine-learning)
-  Environmental analysis
  - Analysis and interpretation of water and soil quality data.
  - Soil physics (infiltration, water balance and laboratory techniques)
-  Others:
  - Advanced English – Git/Github (basic) – Markdown (RMarkdown y Github-flavored)

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## Selected publications

For the complete list, see my profile at [ORCID](#)  or [Google Scholar](#) 

- 2022 **A comparative study of soil metal concentrations in Chilean urban parks using four pollution indexes**, *Applied Geochemistry*, Alejandra S.Vega, Guillermo Arce, Javier I.Rivera, Sara E.Acevedo, SoniaReyes-Paecke, Carlos A. Bonilla, Pablo Pastén.
- 2022 **Unveiling soil temperature reached during a wildfire event using ex-post chemical and hydraulic soil analysis**, *Science of The Total Environment*, Sofía I.Martínez, Cristina P.Contreras, Sara E.Acevedo, Carlos A.Bonilla.
- 2021 **Testing the integral suspension pressure method for soil particle size analysis across a range of soil organic matter contents**, *International Agrophysics*, Sara E. Acevedo, Cristina P. Contreras, Carlos J. Ávila 1, Carlos A. Bonilla.

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## Distinctions

- Scholarship ANID Doctorado Nacional 2016 (PhD)
- Scholarship ANID / Becas Chile 2012 (Master)

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## Volunteering

- Proud to be a part of R-Ladies Chile since 2018 
- Colaborating with Soil Biophysics Lab UC 

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## References

- Dr. Manuel Bugueño: CEO Desalsolar SPA  buguenomanuel at gmail.com
- Dra. Alejandra Vega: Postdoc CEDEUS  asvega at uc.cl
- Dr. Carlos Bonilla: Thesis Supervisor  cbonilla at ing.puc.cl

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