RESUME

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Soft Skills

Ethic Critical Thinking Communication Listening Teamwork Leadership Detail-Oriented Time Management **Problem Solving** Adaptability **Proactive**

Jéssica Caroline dos Santos Silva

Profile

Experience participating in cross-functional multidisciplinary teams, designing and conducting interdisciplinary projects on air and water quality, waste management, threats to biodiversity and carbon and nitrogen storage and cycling in tropical forests. Proficient in collecting and analyzing data to support studies that can contribute to strategic environmental policy and guide decision-making processes. A committed professional, responsible, and hard-working. Fascinated and intrigued by the environmental complexities, is passionate about the environmental natural processes and committed to learn how to work with nature and help create a better-balanced world.

Education

2018-2022 Ph.D. Student

Water Resources and Environmental Engineering

Federal University of Parana (UFPR), Brazil.

Research Project: "Integrated evaluation of atmospheric pollution and socioecological risks in an industrial area from Santa Catarina state". Doctorate Scholarship (CAPES-DS).

2019

Advanced studies on Atmospheric Aerosols

♦ University of Sao Paulo (USP), Brazil.

Sao Paulo School of Advanced Science on Atmospheric Aerosols: Properties, Measurements, Modeling, and Effects on Climate and Health

Financial support: São Paulo Research Foundation (FAPESP).

2015-2017 Science

♦ Center of Nuclear Energy in Agriculture Master degree (CENA/USP), Brazil.

Thesis: "Stocks and fluxes of carbon and nitrogen above- and belowground in fragments of the southern Brazilian Atlantic forest". Master Scholarship (GM/CNPq).

2016 on Nitrogen Cycling

◆ University of Sao Paulo (USP), Brazil.

Advanced studies

♦ Inter-American Institute for Global Change Research (IAI).

School of Advanced Science on nitrogen cycling, environmental sustainability and climate change.

Financial support: Sao Paulo Research Foundation (FAPESP).

2009-2014 **Bachelor of Science**

Environmental & Sanitary Engineering

♦ University of the Region of Joinville (UNIVILLE), Brazil.

Thesis: "Diagnosis of anthropogenic pressure on the atmosphere in the municipality of Joinville, Santa Catarina, Brazil".

♦ Università degli Studi di Bologna, Italy (2012/2013)

Scholarship Graduate Abroad Sandwich (CNPq).

2014 **Development**

♦ University of the Region of Joinville Regional (UNIVILLE), Brazil.

Financial support: Government of Santa Catarina.

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Current Position

2023 - ongoing **Postdoctoral Researcher** Postgraduate Program in **Environmental Engineering**

Universidade Federal do Paraná (UFPR)

Research project: "Inventário de material particulado em municípios com atividades minerais estabelecidas". A partnership with the Public Ministry of the State of Paraná. Access: https://rmcqualidadedoar.shinyapps.io/dados/

Latest Works

DOS SANTOS-SILVA, J. C. et al. A fingerprint of source-specific health risk of PM25bound components over a coastal industrial city. Journal of Hazardous Materials, (2024). Available at: https://doi.org/10.1016/j.scitotenv.2023.162131

SILVA, Jéssica Caroline dos Santos. Avaliação Integrada da Poluição atmosférica e dos riscos sociecológicos na cidade de Joinville/SC. 2022. Tese (Doutorado em Engenharia de Recursos Hídricos e Ambiental). Universidade Federal do Paraná. Available at: https://acervodigital.ufpr.br/handle/1884/81462>.

DOS SANTOS-SILVA, J. C. et al. A new strategy for risk assessment of PM25-bound elements by considering the influence of wind regimes. Science of The Total Environment, (2023). Available at: https://doi.org/10.1016/j.scitotenv.2023.162131

[E-BOOK] SILVA, L. V.; SOUZA, A. L. F.; DOS SANTOS-SILVA, J. C.; RHODEN, S. A. . Monitoramento de bioaerossóis em estação de tratamento de esgoto. 1. ed. Blumenau: 2023. https://editora.ifc.edu.br/2023/10/24/monitoramento-debioaerossois-em-estacao-de-tratamento-de-esgoto/

SILVA, Jéssica Caroline dos Santos. Estoques e fluxos de carbono e nitrogênio acima e abaixo do solo em fragmentos de Floresta Atlântica no sul do Brasil. 2017. Dissertação (Mestrado em Química na Agricultura e no Ambiente). Universidade de São Paulo (2017). Available at: http://doi.org/10.11606/D.64.2017.tde-30112017-101614>.

Other Experiences

2012-2013 Bologna, Italy.

♦ Utilizzo del modello CALPUFF per la valutazione della Università degli Studi di qualità dell'aria da emissioni di un impianto di processo. Scholarship Graduate Abroad Sandwich (CNPq).

2012-2013 Verona, Italy (Internship).

♦ Short-cut nutrients removal from UASB effluent treating Università degli Studi di municipal wastewater for decentralized communities.

Scholarship Graduate Abroad Sandwich (CNPg).

University of the Region of Joinville (UNIVILLE), Brazil.

- ♦ Herbarium Joinvillea (JOI). Intern (2011, 2012, 2014)
- **♦** GHG projects (Bureau Veritas Certification). Audit intern - (2012)
- ◆ Assessoria Técnico-Científica ao Comitê de Gerenciamento da Bacia Hidrográfica do Rio Cubatão Norte e Cachoeira (CCJ).

Volunteer - (2009-2012)

♦ Biodiversity on rocky shore at Babitonga Bay south of Brazil.

Scientific Initiation Project - (2010-2011)

Additional Skills

Languages

- Portuguese
- English
- Italian (Intermediate)
- Spanish (Working knowledge)

Tools & Technologies

- ArcGis and QGis
- •R (Programming Language)
- •GitHub
- Microsoft Office