Stanford



Ana Julia Garcia

Graduate Visiting Researcher Student, Civil & Envir Engr

Resume available Online

Bio

BIO

Civil Engineer (2020), supported by ProUNI (University for All Program), and Occupational Safety Engineer (2023), graduated from the Lins University Center (São Paulo Education and Technology Foundation). She holds a Master's degree in Civil and Environmental Engineering, with an emphasis on Geotechnics (Geoenvironmental Investigation and Monitoring), from the Graduate Program in Civil and Environmental Engineering (PPGECA) at the Bauru Faculty of Engineering (FEB), São Paulo State University (UNESP), supported by CAPES (Coordination for the Improvement of Higher Education Personnel). She is currently a PhD candidate in Civil and Environmental Engineering, focusing on Environmental Sanitation (Regional and Urban Infrastructure), within the same PPGECA program at FEB/UNESP. Her doctoral work is supported by CAPES and Fulbright Brazil (through the Doctoral Dissertation Research Award - DDRA - program), allowing her to conduct part of her research at the Osman Lab in the Department of Civil and Environmental Engineering (CEE) at Stanford University. Throughout her life, she has engaged with the themes of water, nature, community, and science in many ways, which are reflected in her research and have become her passion. Her current research explores the nexus between environmental salubrity and nature-based solutions, using fuzzy artificial intelligence and participatory approaches to foster healthy, sustainable cities. Her research interests include environmental salubrity, health, sanitation, justice, equity, safety, and sustainability; healthy and sustainable cities; urban drainage; environmental risks; nature-based solutions; and the application of machine learning within civil and environmental engineering.

HONORS AND AWARDS

- Doctoral Dissertation Research Award, Fulbright Brazil (2026)

EDUCATION AND CERTIFICATIONS

- Doctor of Philosophy, São Paulo State University (UNESP) Stanford University , Civil and Environmental Engineering (2029)
- Master of Science, São Paulo State University (UNESP) , Civil and Environmental Engineering (2023)
- Bachelor of Science, Lins University Center , Civil Engineering (2020)

Research & Scholarship

LAB AFFILIATIONS

- Khalid Osman, Osman's Lab (9/1/2026)

Publications

PUBLICATIONS

- **Is Having Urban Green Space in the Neighborhood Enough to Make a Difference? Insights for Healthier City Design.** *International journal of environmental research and public health*

Bressane, A., Ferreira, M. E., Garcia, A. n., Medeiros, L. í.
2024; 21 (7)

- **Fuzzy Machine Learning Applications in Environmental Engineering: Does the Ability to Deal with Uncertainty Really Matter?** *SUSTAINABILITY*
  Bressane, A., Garcia, A., de Castro, M., Xerfan, S., Ruas, G., Negri, R.
  2024; 16 (11)