

# ISADORA BRAGANTINI

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## WORK EXPERIENCE

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### **Koppert Biological Systems, Inc.**

*Oxnard, CA*

Koppert Biological Systems is the leading company in biological control for greenhouses and field agriculture

#### **Quality Assurance Scientist**

**April 2020 - Present**

- Conducted and designed laboratory and field experiments. One trial led to saving \$4,000,000 yearly in production;
- Collected and analyzed quantitative data of experiments using R and Excel;
- Created and delivered newsletters and summarized results of data analysis to different stakeholders;
- Interacted with different stakeholders to communicate data findings through reports, PowerPoint presentations, pdf slides and files;
- Lead the Sustainability Committee to improve company's sustainable practices (recycling, decrease energy consumption and water waste), and started gathering data for future carbon footprint measurement.

### **Usina Alta Mogiana S/A**

*São Joaquim da Barra, SP - Brazil*

Usina Alta Mogiana S/A has an installed capacity to mill 6,700,000 tons of sugarcane, produce 10,500,000 bags of sugar and 240,000,000 liters of ethanol, and co-generate 250,000 MWh of energy

#### **Intern, Agricultural Practices**

**Oct 2019 - Nov 2019**

- Participated in large scale experiments of biological control efficiency in sugarcane crops, and analyzed data using Excel;
- Oversaw seeding, fertilizing, harvesting operations, herbicides and pesticides applications for sugarcane crops;
- Scouted crops and released *Cotesia flavipes* and *Trichogramma galloi* (biological control) in a timely manner.

### **Laboratory of Geochemistry - GEPGeoq**

*Piracicaba, SP - Brazil*

Geochemistry laboratory of University of São Paulo which works with soil morphology, environmental impacts and soil remediation.

#### **Research Assistant**

**Jul 2017 - Jan 2019**

- Analyzed datasets for statistical hypothesis testing, performed exploratory data analysis (EDA) to discover possible new correlation between variables using R;
- Wrote scientific papers and reports on the development of projects related to trace metal release after the Samarco mining disaster, and carbon emissions of impacted mangroves forests in Espírito Santo;
- Presented data findings to a broad audience of non-scientific and scientific background.

### **PET - Ecologia**

*Piracicaba, SP - Brazil*

Government organization promoting tutorship, research and extension, focused on sustainability, climate change and agriculture

#### **Communication and Project Manager**

**Jul 2015 - Jul 2017**

- Lead a team of 7 people in the creation and execution of projects related to sustainability;

- Created partnerships with schools to develop projects related to agriculture sustainability and to spread the importance of science and agriculture;
- Strong communication skills, raising public access to PET - Ecologia website;
- Created and managed various media accounts (Instagram, Facebook and Wordpress).

### **AMARANTHUS - Organic Farming Jr. Enterprise**

*Piracicaba, SP - Brazil*

Student organization promoting organic agriculture and management of a organic farm

#### **Production and Finance Manager**

**Jul 2015 - Jan 2017**

- Handled cash-flow, acquisition and maintenance of supplies;
- Started an agroforestry cultivation in partnership with another group of Jr. enterprise.

## **PUBLICATIONS**

- Queiroz, H.M., **Bragantini, I.O.B.F.**, Fandiño, V.A., Bernardino, A.F., Barcellos, D., Ferreira, A.D., Gomes, L.E.O., Osório, T.F. "Degraded mangroves as sources of trace elements to aquatic environments" *Marine Pollution Bulletin*, 2022.
- Queiroz, H.M., Osório, T.F., Fandiño, V.A., **Bragantini, I.O.B.F.**, Barcellos, D., Nóbrega, G.N., Ferreira, A.D., Gomes, L.E.O., Bernardino, A.F. "Changes in soil iron biogeochemistry in response to mangrove dieback" *Biogeochemistry*, 2022.
- Queiroz, H.M., Vasconcelos, A.L., **Bragantini, I.**, Osório, T.F., Bernardino, A.F. "Phosphorus eutrophication risk in the Rio Doce estuary after the rupture of the Fundão dam" *SETAC Fundão Dam Science Meeting*, 2019.
- "Carbon dioxide from soil to atmosphere: how mangroves losses contribute to climate change?" *Ecosystem Services Partnership (ESP) Latin America Conference*, 2018;
- "Greenhouse gas emissions of impacted mangroves in Espírito Santo" *26 International Symposium of Scientific and Technological Initiation in São Paulo*, 2018;

## **EDUCATION**

**University of São Paulo - USP, Piracicaba - Brazil**

**Feb 2015 - Dec 2019**

"Luiz de Queiroz" College of Agriculture - ESALQ

BSc in Agronomic Engineering

**University of Western Australia - UWA, Perth - Australia**

**Feb 2019 - Jun 2019**

Exchange program: BSc in Agriculture and Environmental Science

## **SKILLS**

<b>Software</b>	R, RMarkdown, MS Office, L <sup>A</sup> T <sub>E</sub> X
<b>GIS</b>	ArcGIS, QGIS, Spring
<b>Languages</b>	Fluent Portuguese, Conversational Spanish, Beginner French
<b>Courses</b>	Mitigation Goal Standard, Internal Auditing Basics
<b>Volunteer</b>	Climate Neutral Carbon Management Team

## **ACADEMIC ACHIEVEMENTS**

- Won First Prize in the Sustainability Hackathon 2019 by the Institute of Electrical and Electronics Engineers (IEEE) and Australia-China Youth Association (ACYA) UWA.