

Maxwel Coura Oliveira

PLANT SCIENCE MANAGER

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Summary

Agronomist and Plant Scientist with decade of experience in crop management and agricultural innovation. Core strengths:

- **Crop Improvement:** Research on herbicide-resistant weeds directly applicable to tobacco pest management
- **Precision Agriculture:** BASF work on input reduction aligns with sustainable leaf production goals
- **Global Field Experience:** Research in Brazil/US/Canada prepares for JTI's international operations
- **Regulatory Engagement:** EPA collaboration demonstrates ability to navigate compliance frameworks

Professional experiences

BASF DIGITAL FARMING

Senior Digital Agronomist · Cologne · NRW · Germany

Oct 2023 - Current

- Coordinated smart spraying research and development for the **One Smart Spray** platform in the US, enhancing precision farming capabilities.
- Built and maintained strong stakeholder relationships, fostering collaboration across global teams.
- Developing agronomic digital intelligence for **One Smart Spray** and **xarvio Field Manager**.
- Agronomic coordinator of *Expert Scouting Trip* (field monitoring) project based on modeling and remote sensing of the **xarvio AgBusiness** platform.

MCGILL UNIVERSITY

Assistant Professor of Weed Science · Saint-Anne-de-Bellevue · QC · Canada

Dec 2022 - Sep 2023

- Tenure-track research and teaching in Weed Science.
- Led agronomic research projects on sweet corn with Groupe Bonduelle and delivered extension talks to stakeholders.

TEEJET TECHNOLOGIES SOUTH AMERICA

Research and Training Coordinator · Sao Paulo · SP · Brazil

Nov 2021 - Oct 2022

- Developed strategies for nozzle positioning in pesticide application, and maintained relationships with stakeholders.
- Led certified training programs for pesticide applicators on auxin herbicide (e.g., 2,4-D, dicamba) application in field crops.

WESTERN SÃO PAULO UNIVERSITY

Assistant Professor · Presidente Prudente · SP · Brazil

Fev 2020 - Fev 2021

- Taught courses and workshops on weed biology, agronomy, and programming in R.
- Conducted surveys and research on herbicide weed management and cover crop strategies in corn and soy-bean farming systems.

UNIVERSITY OF WISCONSIN-MADISON

Research Associate/Data analyst, WiscWeeds Lab · Remote

Jan 2020 - Sep 2021

- Analyzed complex datasets with empirical and machine learning models, and published manuscripts in high-impact journals.
- Mentored graduate students in experimental design, writing and data visualization techniques for effectively communicating research findings.

- Developed integrated weed management strategies for corn and soybeans in Wisconsin, USA
- Led herbicide resistance studies and field herbicide efficacy trials with chemical industry.
- Conducted research on off-target herbicide movement (e.g., 2,4-D and dicamba) that was used by EPA product registration decision.
- Delivered extension talks and outreach activities to stakeholders and growers.
- Supported students' academic growth and contributed to grant proposals and publications.

UNIVERSITY OF NEBRASKA-LINCOLN

Graduate Research Assistant, Knezevic Lab · Concord/Lincoln · NE · USA

Jan 2014 to Dec 2017

- Conducted field (corn and soybeans), greenhouse, and laboratory research on herbicide resistance, toxicology and weed ecology.
- Designed and executed extension talks on integrated weed management and conducted herbicide efficacy trials with chemical industry.

TIMAC AGRO BRASIL

Sales Management Trainee, Paragominas · PA · Brazil

Jan to Jun 2013

- Conducted sales prospecting and marketing campaigns to expand client base.
- Organized and delivered training sessions to enhance team performance and product knowledge.

Education

Ph.D. in Agronomy (Weed Science) · University of Nebraska-Lincoln

Jan 2014 to Dec 2017

Dissertation: Evolution of HPPD-inhibitor herbicide resistance in a waterhemp (*Amaranthus tuberculatus* var. *rudis*) population from Nebraska, USA

Advisor: Dr. Stevan Knezevic | *Co-advisor:* Dr. Todd Gaines, Dr. Amit Jhala

MSc. in Plant Science (Weed Science) · Federal University of Jequitinhonha and Mucuri Valleys Ago 2011 to Jul 2013

Thesis: Competitive ability of corn with *Commelina benghalensis* and *Richardia brasiliensis*

Advisor: Dr. José B Santos

BSc. in Agronomy · Federal University of Jequitinhonha and Mucuri Valleys

Mar 2006 to Jul 2011

Thesis: Composition and extraction of minerals in forage grass in a previously soil waste urban deposit area

Advisor: Dr. Karina G. Ribeiro

Languages

- *English:* Fluent proficiency (reading, writing, and speaking).
- *Portuguese:* Native → Key for Brazilian leaf operations
- *Spanish:* Professional → Latin American supply chains
- *Italian:* Intermediate proficiency (reading, conversational speaking, listening).
- *French:* Basic proficiency (reading, listening).
- *German:* Basic proficiency (reading, basic speaking).

Key Publications

1. **Oliveira MC** et al. (2018) Reversing resistance to tembotrione in an *Amaranthus tuberculatus* (syn. *rudis*) population from Nebraska, USA with cytochrome P450 inhibitors.
 - Molecular resistance mechanisms → Transferable to tobacco pest breeding
 - *Pest Management Science* 10.1002/ps.4697

2. Soltani et al. (2020) Off-Target Movement Assessment of Dicamba in North America. *Weed Technology* (co-author)
 - EPA-adopted regulatory research → Shows compliance experience
 - *Weed Technology* 10.1017/wet.2020.17

Full list available upon request

Certification

1. Teaching and tidyverse instructor certification
Issue by Rstudio February 2021
2. Pesticide applicator license
Issue by Wisconsin Department of Agriculture March 2018