

# Maxwel Coura Oliveira

CROP/WEED SCIENTIST

Cologne, Germany

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## Summary

Agronomy leader with 10+ years of international experience in crop production systems, precision agriculture, and grower-focused technical support. Proven ability to design and deploy innovative agronomic solutions (e.g., IPM, substrate management, protected cultivation) that improve yield, quality, and sustainability. Strong track record in field-based research, grower education, and cross-functional collaboration across Europe, North America, and South America.

## 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 soybean 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.

Postdoctoral Research Associate, WiscWeeds Lab · Madison · WI · USA

Jan 2018 - Dec 2019

- 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.

## INTERGROW GREENHOUSES

Greenhouse Assistant, Albion · NY · US

Sep 2010 to Apr 2011

- Executed precision tomato tutoring (trellising/pruning) in controlled environments, optimizing plant architecture for light penetration and airflow.
- Monitored crop health and growth stages daily, coordinating with IPM teams to implement early disease detection

## LONG FAMILY FARM

Farm Assistant, Commerce · MI · US

Apr 2010 to Sept 2010

- Managed daily crop operations for diversified produce, including planting, irrigation, and harvest of high-value crops, ensuring optimal quality and yield for direct-to-market sales.

## Education

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1. **Ph.D. in Agronomy** | University of Nebraska-Lincoln (2017)
2. **M.Sc. in Plant Science** | Federal University of Jequitinhonha and Mucuri Valleys (2013)
3. **B.Sc. in Agronomy** | Federal University of Jequitinhonha and Mucuri Valleys (2011)

## Technical Skills

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1. **Field Agronomy:** Protected cultivation, substrate systems, IPM, nutrient management
2. **Digital Tools:** R/Python analytics, remote sensing
3. **Languages:** Portuguese (native), English (fluent), Spanish/Italian (intermediate), German (basic)
4. **Certifications:** EU Driver's License, Pesticide Applicator (WI, USA)

## Publications & Outreach

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1. **Oliveira et al. (2022).** Palmer Amaranth Adaptation to Midwest Agroecosystems. *Frontiers in Agronomy*.
2. **Oliveira et al. (2020).** Cover Crops and Hormones: Priming Integrated Weed Management. *Plant Science*.
3. **Werle & Oliveira (2018).** Dicamba Off-Target Movement Survey. *Weed Technology*.

## Certification

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