

Maxwel Coura Oliveira

CROP/WEED SCIENTIST

Cologne, Germany

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Summary

Weed scientist with **10+ years of field research and data-driven weed management expertise**, specializing in weed ecology, resistance mechanisms, and precision agriculture. Strong background in **designing field trials, statistical modeling, and translating agronomic insights into actionable solutions**. Multilingual (English, Portuguese, Spanish) - basic in French and German - and adept at collaborating with cross-functional teams to improve sustainable farming practices.

Key Skills

- **Weed Management:** Research and development, field trial design, research, integrated weed management.
- **Data Analysis:** R, Python, machine learning, data visualization, statistical modeling.
- **Precision Agriculture:** Smart spray, remote sensing.
- **Communication:** 30+ peer-reviewed publications, stakeholder training, multilingual outreach.

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.
- Return On Investment analysis for featured products.

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

- **Ph.D. in Agronomy (Weed Science)** · University of Nebraska-Lincoln Jan 2014 to Dec 2017
- **MSc. in Plant Science (Weed Science)** · Federal University of Jequitinhonha and Mucuri Valleys Ago 2011 to Jul 2013
- **BSc. in Agronomy** · Federal University of Jequitinhonha and Mucuri Valleys Mar 2006 to Jul 2011

Certification

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

February 2021

March 2018