Maxwel **Coura Oliveira**

CROP/WEED SCIENTIST

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Summary

Multilingual Crop and Weed Scientist with 10+ years of experience in research, regulation, and agronomic development in Europe, North and South America. Expert in herbicide resistance, pesticide application, and data-driven decision support tools. Demonstrated success in cross-functional project leadership, field trials, regulatory data generation, and stakeholder engagement. Strong command of EU and North American regulatory environments and proven ability to manage regulatory and R&D projects globally. Author of 30+ peer-reviewed publications, with extensive experience supporting product registration, compliance, and risk assessment in collaboration with academia, industry, and government agencies.

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.

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

Key Competenciess

1. **Regulatory Strategy**: Registration data generation (toxicity, residues, environmental fate), risk modeling, zonal dossier alignment
2. **Project Leadership**: Global R&D trial coordination, stakeholder communication, consultant management
3. **Technical Expertise**: Herbicide resistance, LC/GC-MS, risk assessment studies, off-target herbicide movement
4. **Data Analysis**: R, Python, Quarto, GitHub, Machine Learning, Visualization, Reporting
5. **Languages**: Portuguese (native), English (fluent), Spanish & Italian (intermediate), French & German (basic)

Selected peer-reviewed publications

1. **Oliveira MC** et al (2017) Confirmation and Control of HPPD-inhibiting Herbicide-Resistant Waterhemp (*Amaranthus tuberculatus*) in Nebraska. *Weed Technology*, 31:67–79. doi: 10.1017/wet.2016.4

2. **Oliveira MC** et al (2018) Reversing resistance to tembotrione in an *Amaranthus tuberculatus* (syn. *rudis*) population from Nebraska, USA with cytochrome P450 inhibitors. *Pest Management Science*, 74:2296–2305. (Invited publication) doi: 10.1002/ps.4697

3. Soltani S, **Oliveira MC** et al (2020) Off-Target Movement Assessment of Dicamba in North America. *Weed Technology* 34:318-330. doi: 10.1017/wet.2020.17

Professional Associations & Engagement

1. Frequent speaker at international conferences (e.g., WSSA, NCWSS, Brazilian Weed Science Meeting)

2. Guest lecturer on herbicide regulation and data analysis in Canada, USA, and Brazil

Certification

1. Teaching and tidyverse instructor certification   February 2021
   Issue by Rstudio

2. Pesticide applicator license   March 2018
   Issue by Wisconsin Department of Agriculture