




MAXWEL COURA OLIVEIRA

I have been working to reduce the impact of weeds at the landscape level. As part of my job, I conduct collaborative research to manage weeds, understand the underlying basis of weed resistance, educate growers on weed management, and to train students, the next generation of weed scientists. My work have been heavily based on using data science and programming in R.


Currently searching for a position that allows me to take my research and data science experience to solve real world problems from extremely varied data sets.







EDUCATION

- 2017 | 2014**
 - **PhD., Weed Science**
 - University of Nebraska-Lincoln  Lincoln, NE - USA
 - Thesis: Evolution of HPPD-inhibitor herbicide resistance in a waterhemp (*Amaranthus tuberculatus* var. *rudis*) population from Nebraska, USA
 - CAPES Graduate Fellow
- 2013 | 2011**
 - **M.S., Weed Science**
 - Universidade Federal dos Vales do Jequitinhonha e Mucuri  Diamantina, MG - Brazil
 - Dissertation: Competition of *Commelina benghalensis* and *Richardia brasiliensis* in corn
 - CAPES Graduate Fellow
- 2011 | 2006**
 - **B.S., Agronomy**
 - Universidade Federal dos Vales do Jequitinhonha e Mucuri  Diamantina, MG - Brazil
 - Thesis: Composition and minerals extraction of forage grasses growing in a degraded area from deposition of solid urban waste
 - CNPq Graduate Fellow

PROFESSIONAL EXPERIENCE

- Current | 2018**
 - **Research Associate**
 - Werle's Lab  University of Wisconsin-Madison
 - Independently analyzing and constructing statistical models for weed research projects in Wisconsin
 - Supervising graduate students
 - Developed research trials to evaluate herbicides from herbicide industries

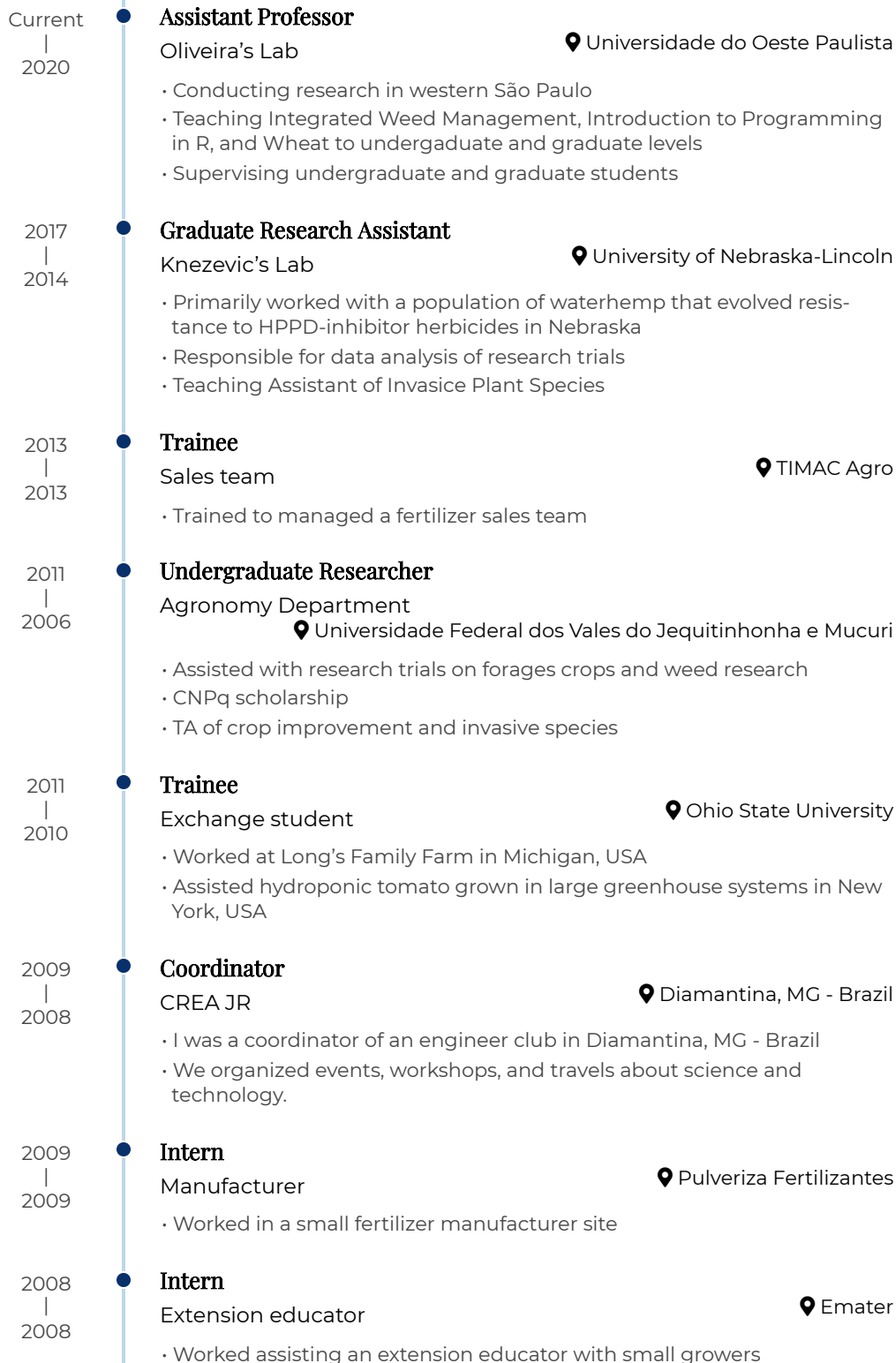
CONTACT

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-  twitter.com/maxwelco
-  github.com/maxwelco
-  maxweeds.rbind.io

LANGUAGE SKILLS

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|--------|--|
| Excel | |
| R | |
| LaTeX | |
| Python | |
| C++ | |
| Bash | |
| SQL | |
| CSS | |


I have worked in a variety of roles ranging from sales to Professor. I like collaborative environments where I can learn from my peers.






SELECTED DATA SCIENCE WRITING

Current
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2020

- **Documentando os Herbicidas no Brasil em 2020³**  Brazil
 - Authored with Gustavo Pereira
 - This was a work of summarise all herbicides available in Brazil in two pdf pages. The herbicides were classified by site-of-action, active ingredient names, commercial names, and others.
 - Post in Portuguese. This post have received over 3,000 visits in a couple day.

2020

- **2020 WSSA/WSWS meeting program text analysis⁴**  Global
Open Weed Science Blog
 - Authored with Sarah Marinho and Rodrigo Werle
 - Text analysis in R of the 2020 Weed Science Society Meeting Proceedings

2020

- **Crop-weed competition in additive design⁵**  Global
Open Weed Science Blog
 - Authored with Rodrigo Werle
 - Analyzing crop-weed competition studies in R

2020

- **One-way ANOVA for percentage weed control data⁶**  Global
Open Weed Science Blog
 - Authored with Rodrigo Werle
 - Analyzing weed control studies in R

I regularly blog about data science and visualization on Open Weed Science⁷ and my blog maxweeds.²



SELECTED PUBLICATIONS

2020
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2020

- **Assessment of crop and weed management strategies prior to introduction of auxin-resistant crops in Brazil⁷**
Weed Technology Journal
 - Authored with Rodrigo Werle, Anelise Lencina and André Ulguim.
 - This project is part of a survey conducted in Brazil in 2018. We have received 350 responses from agricultural stakeholders and the data was summarise for publication.

2020
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2020

- **Off-target movement assessment of dicamba in North America⁸**
Weed Technology Journal
 - Authored with Nader Soltani, Guilherme S Alves, Rodrigo Werle, Jason K Norsworthy, Christy L Sprague, Bryan G Young, Dan B Reynolds, Ashli Brown, and Peter H Sikkema.
 - This project was conducted across USA and Canada. I was responsible for leading project in Wisconsin. Also, I was responsible for data analysis of the entire dataset.

I am passionate about writing and communicating about science.

2018
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2018

- **Reversing resistance to tembotrione in an *Amaranthus tuberculatus* var. *rudis* population from Nebraska, USA with cytochrome P450 inhibitors⁹**
Pest Management Science Journal

- Authored with Todd A Gaines, Franck E Dayan, Eric L Patterson Amit J Jhala, and Stevan Z Knezevic.
- This project was part of my PhD thesis. A publication in collaboration with Colorado State University.

2018
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2018

- **Additive design: the concept and data analysis¹⁰**
Weed Research Journal

- Authored Gustavo Pereira, Evander Alves, José Barbosa, Stevan Knezevic and Rodrigo Werle
- This publication was part of my M.S. dissertation.

LINKS

- 1: <https://www.openweedsci.org>
- 2: <https://maxweeds.rbind.io>
- 3: <https://maxweeds.rbind.io/pt/post/herbicidas-2020/>
- 4: <https://www.openweedsci.org/post/2020/02/25/2020-wssa/ws-ws-meeting-program-text-analysis/>
- 5: <https://www.openweedsci.org/post/2019/12/13/crop-weed-competition-in-additive-design/>
- 6: <https://www.openweedsci.org/post/2019/12/20/one-way-anova-for-percentage-weed-control-data/>
- 7: <https://doi.org/10.1017/wet.2020.96>
- 8: <https://doi.org/10.1017/wet.2020.17>
- 9: <https://doi.org/10.1002/ps.4697>
- 10: <https://doi.org/10.1111/wre.12317>