

# LUCAS BERGER MUNARO

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## EDUCATION

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| <b>University of Illinois Urbana-Champaign</b><br><i>Ph.D. in Crop Sciences</i> <ul style="list-style-type: none"><li>Dissertation: Accelerated breeding for winter wheat profitability in a wheat-soybean double-crop system</li><li>Advisor: Dr. Jessica E. Rutkoski</li></ul>  | <b>Jan 2021 - Present</b><br><i>GPA: 4.0</i>  |
| <b>São Paulo State University, Brazil</b><br><i>Master of Science in Agronomy (Genetics and Plant Breeding)</i> <ul style="list-style-type: none"><li>Thesis: Exploring long-term variety performance trials to improve environment-specific genotype × management recommendations: A case-study for winter wheat</li></ul> | <b>Feb 2018 - Dec 2019</b><br><i>GPA: 4.0</i> |
| <b>Federal University of Technology of Parana, Brazil</b><br><i>Bachelor of Science in Agronomy</i> <ul style="list-style-type: none"><li>Undergraduate thesis: Brazilian Spring Wheat Homogeneous Adaptation Regions can be Dissected in Major Mega environments</li></ul>   | <b>Feb 2009 - Apr 2014</b>                    |

## WORK EXPERIENCE

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| <b>Department of Crop Sciences, University of Illinois Urbana-Champaign</b><br><i>Graduate Research Assistant</i> <ul style="list-style-type: none"><li>Co-inventor on five wheat varieties licensed to seed companies over the past two years</li><li>Co-led and conducted field operations in over 15,000 yield trial plots per year in nine locations across Illinois</li><li>Contributed to improving the wheat breeding program's strategy by increasing the quality of phenotypic data and trials and optimizing the resources for field testing. As a result, the number of test locations and plots increased</li><li>Co-led the implementation of a UAV-based high-throughput phenotyping pipeline in the breeding program to collect longitudinal data over three locations and multiple trials</li><li>Trained colleagues and new employees on how to operate research equipment</li></ul> | <b>Champaign, IL</b><br><i>Jan 2021 - Present</i>      |
| <b>Department of Agronomy, Kansas State University</b><br><i>Assistant Scientist</i> <ul style="list-style-type: none"><li>Led the evaluation of long-term variety performance trial data, resulting in better management recommendations using existing data and guiding future studies</li><li>Assisted undergraduate and graduate students with data analysis using R language for projects that resulted in three peer-reviewed journal articles</li></ul>  | <b>Manhattan, KS</b><br><i>Aug 2018 - Dec 2020</i>     |
| <b>São Paulo State University</b><br><i>Graduate Research Assistant</i> <ul style="list-style-type: none"><li>Set the groundwork for Value for Cultivation and Use testing of soybean inbred lines</li></ul>  | <b>São Paulo, Brazil</b><br><i>Feb 2018 - Jul 2018</i> |
| <b>Coamo Agroindustrial Cooperativa</b><br><i>Agronomist</i> <ul style="list-style-type: none"><li>Provided technical assistance to farmers to sustainably improve the yield and profitability of corn, soybean, wheat, dry beans, and oats</li><li>Projected grain production, grain reception, and input sales for the cooperative unit to define goals and identify possible gaps</li><li>Collaborated with representatives from various agricultural inputs companies to organize field days, technical training, and social events for farmers</li></ul>   | <b>Paraná, Brazil</b><br><i>Mar 2015 - Jan 2018</i>    |
| <b>Nidera Seeds Ltda</b><br><i>Soybean Breeder</i> <ul style="list-style-type: none"><li>Participated as a breeder in releasing one soybean variety and registering seven soybean inbred lines</li><li>Presented new soybean inbred lines during advancement decision meetings</li><li>Led breeder seed production, selection within segregating populations, field evaluations, generation advancement, and disease resistance screening</li></ul>   | <b>Paraná, Brazil</b><br><i>Mar 2014 - Oct 2014</i>    |

## Fundação MT

Intern – Soybean Breeding

Mato Grosso, Brazil

Aug 2013 - Feb 2014

- Assisted with seed preparation, field activities, and phenotypic selection for the soybean breeding program
- Presented research results on a field day for farmers and producers

## SELECTED PUBLICATIONS (3 of 10) - Refer to “Lucas Berger Munaro” on Google Scholar for more

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1. Munaro L.B., Kolb, F., Rutkoski, J. E. Genetic trends due to 21 years of soft red winter wheat breeding in Illinois. *In preparation*
2. Munaro L.B., Hefley T.J., DeWolf E., Haley S., Fritz A.K., Zhang G., Haag L.A., Schlegel A.J., Edwards J.T., Marburger D., Alderman P., Jones-Diamond S.M., Johnson J., Lingenfelter J.E., Unêda-Trevisoli S.H., Lollato R.P. 2020. Exploring long-term variety performance trials to improve environment-specific genotype × management recommendations: A case-study for winter wheat. **Field Crops Research**, 255 <https://doi.org/10.1016/j.fcr.2020.107848>
3. Munaro L.B., Benin G., Marchioro V.S., De Assis Franco F.; Silva R.R.; Lemes da Silva C., Beche E. 2014. Brazilian Spring Wheat Homogeneous Adaptation Regions can be Dissected in Major Mega environments. **Crop Science**, 54, 1374 <https://doi.org/10.2135/cropsci2013.06.0365>

## GERMPLASM RELEASES & REGISTRATIONS

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1. Benin G., et al. **Wheat: UTF 25**. Patent number: 21806.000111/2019, SNPC-MAPA, Brazil, 2019
2. Mattei G., et al. **Soybean: NS6828IPRO**. Patent number: 21806000151/2016, SNPC-MAPA, Brazil. 2016
3. Mattei G., et al. **Soybean: XI591303IPRO, XI591305IPRO, XI591310IPRO, XI591311IPRO, XI621302IPRO, XI681303IPRO, XI641372RR**. Registration numbers: 32997, 32996, 32995, 32998, 32992, 32999, 32994, RNC-MAPA, Brazil, 2014

## HONORS AND AWARDS

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- NAPB Borlaug Scholar - class of 2024, **National Association for Plant Breeding (NAPB)**
- Richard H. & Elizabeth C. Hageman Endowed Graduate Research Fellowship, **Department of Crop Sciences, University of Illinois Urbana-Champaign**, Champaign, IL, 2024 - (\$ 33,295.20)
- Jonathan Baldwin Turner Graduate Fellowship, **Department of Crop Sciences, University of Illinois Urbana-Champaign**, Champaign, IL, 2023 - (\$ 22,500.00)
- First Place Award in the 2019 Graduate Student Poster Competition – Exploring G x E x M Synergies; American Society of Agronomy – Wheat Initiative Agronomists Community. **2019 ASA-CSSA-SSSA International Annual Meeting**, San Antonio, TX - (\$ 300.00)
- Young Plant Breeding Award at **7th National Brazilian Congress of Plant Breeding**, Uberlândia, MG, Brazil, 2013 - (R\$ 700.00)

## LANGUAGES

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- Portuguese (Native); English (Fluent); R software (Advanced)

## ORGANIZATIONAL INVOLVEMENT

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- President of the UIUC Crop Sciences Graduate Students Organization, 2023-2024
- Networking Chair of the UIUC Crop Sciences Graduate Students Organization, 2022-2023
- Member of the 2022, 2023, and 2024 UIUC Plant Science Symposium organizing committee
- Participant of the Corteva DELTA symposium, Indianapolis 2023
- Participant of the Bayer University Mentoring Program (B4U), cohort 2023
- Member of the WheatCAP consortium