LEONARDO VOLPATO

Postdoctoral Research Associate

Michigan State University - East Lansing, MI. February 2021 to present

EDUCATION

Instituto Federal do Triângulo Mineiro - IFTM

T.E. in Technical Course in Agriculture

• Uberlandia, Brazil

Federal University of Viçosa - UFV 2014

B.S. in Agronomy

♥ Viçosa, Brazil

Federal University of Viçosa - UFV 2016

M.S. in Plant Breeding

♥ Viçosa, Brazil

Thesis: Selection of soybean progeny for grain yield with the use of mixed models

Federal University of Viçosa - UFV 2020

Ph. D. in Plant Breeding

♥ Viçosa, Brazil

Thesis: High-throughput phenotyping for soybean plant maturity date and wheat plant height using unmanned aerial system

RESEARCH EXPERIENCE

2018 2019

2009

Visiting Student

International Maize and Wheat Improvement Center - CIMMYT • Mexico City, Mexico

- · Supported the entire remote sensing components of wheat and maize plant breeding
- · Performed drone imagery and software analyses.
- · Conducted missions and collected data for HTP using Unmanned Aerial System (UAS).
- · Pipeline developed for measuring agronomic trait such as plant height, biomass, lodging and biologic stress using UAS.

2019 2020

Visiting Research Scholar

University Of Minnesota

Minneapolis, USA

- · Applied remote sensing approaches in the soybean variety development pipeline.
- · Conducted field data analyses using drone imagery.
- · Worked collaboratively with other graduate students and technicians.
- · Pipeline implemented in R to estimate plant maturity date using HTP/UAS methods

2010 2014

2011

2012

Intern

Federal University of Viçosa - UFV

♥ Viçosa, Brazil

- · Resistance of Spodoptera frugiperda (Lepidoptera: Noctuidae) to proteins from Bacillus thuringiensis
- · Evaluation of tropical maize (Zea mays L.) lines fornitrogen use efficiency
- · Selection within and between families of ornamental pepper (Capsicum spp.)

PROFESSIONAL/ACADEMIC EXPERIENCE

AgroPlan-UFV - Junior Enterprise Agronomy Federal University of Viçosa - UFV

🗣 Viçosa, Brazil

CONTACT INFO

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A9, Okemos, MI - USA

github.com/volpatoo

in linkedin.com/LV

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STATISTICAL SOFTWARE

R, Python, and GIS tools.

EXPERIENCED AREAS

Statistical and bioinformatics analysis, mixed models, GxE interaction, Genotyping and Phenotyping.

RESEARCH **STRENGHTHS**

Full experience with remote sensing analysis, drone imagery use and HTP pipelines, Genomic selection and Multi-trait multi-environment models.

2013	•	Teaching assistant in Agriculture Entomology
 2014		Federal University of Viçosa - UFV Viçosa, Brazil
2014	•	Regulation of seeds and seedlings, Intern Federal Agriculture, Livestock and Supply - MAPA
2015 2017	•	Academic group coordinator GenMelhor-LIEV - Study Group of Genetics and Breeding Viçosa, Brazil
		GenMelhor-UFV - Study Group of Genetics and Breeding SELECTED PUBLICATIONS AND POSTERS
	T	SELECTED PUBLICATIONS AND POSTERS
2018		Selection of inbred soybean progeny: an approach with population effect. Plant Breeding, v. 138, p. i-iv, 451-672.
		Volpato, L. ; Simiqueli, G.F.; Alves, R.S.; Rocha, J. R. A. S. C.; Del Conte, M. V.; Resende, M. D. V.; Carneiro, P. C. S.; Silva, F. L.
2019		A. Multi-trait multi-environment models in the genetic selection of segregating soybean progeny. PLoS One, v. 14, p. e0215315.
		Volpato, L ; Alves, R.S.; Teodoro, P.E.; Resende, V. M. D.; Nascimento, M.; Nascimento, A. C. C.; Ludke, W.H.; Lopes, S. F.
2019	•	SNP markers associated with soybean partial resistance to Phytophthora sojae.
		Crop Breeding and Applied Biotechnology, v. 19, p. 31-39
		Ludke, W. H.; Schuster, I.; Nora, T. D.; Oliveira, A. B.; Soares, B. A.; Volpato, L. ; Silva, F. L.
2020		Inference of population effect and progeny selection via a multi-trait index in soybean breeding.
		Acta Scientiarum. Agronomy, v. 43, p. 10.4025/actasci
		Volpato, L.; Rocha, J. R. A. S. C.; Alves, R. S.; Ludke, W. H.; Oliveira, A. B.; Silva, F. L.
2021	•	High Throughput Field Phenotyping for Plant Height Using UAV-Based RGB Imagery in Wheat Breeding Lines: Feasibility and Validation. Frontiers in Plant Science, v. 12, p. 591587
		Volpato, L. ; Pinto, F.; González-Pérez, L. ; Thompson, I. G. ; Borem, A.; Reynolds, M.; Gérard, B.; Molero, G.; Rodrigues, F. A.
2021	•	High Throughput Field Phenotyping for Plant Height Using UAV-Based RGB Imagery in Wheat Breeding Lines: Feasibility and Validation. The Plant Phenome J.,10.1002/ppj2.20018
		Volpato, L.; Dobbels. A.; Borem, A.; Lorenz, A. J.
2021	•	Genomic selection with rapid cycling: Current insights and future prospects. Crop Breeding and Applied Biotechnology. 21(S): e394721S14
		Volpato, L.; Bernardeli, A.; Gomez, F.
		LANGUAGE
	•	Portuguese
		Native
		English
		Fluent
	•	Spanish Working knowledge
		Working knowledge