Luis Fernando Delgado Muñoz

STATISTICAL DATA ANALYST

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Agro-industrial engineer with expertise in data handle and data analytics from field and quality postharvest trials of cassava breeding populations. I'm interested in combining these approaches to breeding population-based studies of economical traits, particularly dry matter, yield, diseases resistant and quality postharvest traits. My work has involved international collaborations in France and the Americas, and spans harvesting breeding populations, to evaluation and characterization of quality traits in the lab, to the downstream analytics using advanced approaches and digital tools. I am an avid R user for data processing, analytics, modelling, visualization, communication and reports.

Current Appointments

The Alliance Bioversity International and CIAT - Manpower group *Palmira, Colombia*
RESEARCH ASSISTANT FELLOW *Dec 2020–Present*

Unidad Central del Valle ⬈ *Tulúa, Colombia*
PART TIME PROFESSOR, ENGINEERING FACULTY, AGROPECUARY ENGINEERING PROGRAM ⬈ *Aug 2020–Present*

Universidad Nacional de Colombia Sede Palmira ⬈ *Palmira, Colombia*
STATISTICAL DATA ANALYSIS, INCREASING SUSTAINABLE COMPETITIVENESS IN HILLSIDE AGRICULTURE THROUGHOUT THE DEPARTMENT, VALLE DEL CAUCA, WEST, ⬈ *Dec 2021–Feb 2022*

Universidad Nacional de Colombia Sede Palmira ⬈ *Palmira, Colombia*
PART TIME PROFESSOR, ENGINEERING FACULTY *Feb 2020–Dec 2021*

Education

Universidad Nacional de Colombia Sede Palmira *Palmira, Colombia*
AGROINDUSTRIAL ENGINEERING *2015*

Universidad Nacional de Colombia Sede Palmira *Palmira, Colombia*
MSc. AGRICULTURAL SCIENCES *2019*
- Best master Thesis Award Laureate (2019)
- **Thesis**: Caracterización de oleorresinas de ají Tabasco y Cayenne bajo diferentes niveles de nitrógeno y humedad en el suelo ⬈

Research Experience

Alliance Bioversity International and CIAT *Palmira, Colombia*
RESEARCH ASSISTANT FELLOW, QUALITY POSTHARVEST LAB, CASSAVA PROGRAM *Dec 2020–Present*
- Provide support for processing raw roots, textural analysis and optimal cooking time evaluations of breeding populations of cassava program
- Trained panellist staff on sensory attributes of boiled cassava roots and constitude the first sensory panel of breeding cassava program.
- Provide support for data clean, curation, statistical analysis and modelling of RTB Foods project data derived

Universidad Nacional de Colombia Sede Palmira *Palmira, Colombia*
STATISTICAL DATA ANALYSIS *Dec 2021–Feb 2022*
- Lead the statistical data analysis of avocado Hass demostration plots located in Roldanillo municipality
- Lead the statistical data analysis of blackberries "Castilla sin espinas", "San Antonio" and "Brazos" demostration plots located in Pradera municipality

Teaching and Supervision

Part time Professor   *Tulúa, Colombia*
UNIDAD CENTRAL DEL VALLE   *Aug 2020–Present*
- Engineering faculty, Agropecuary engineering program, courses included: Research tools I and Experimental design

Part time Professor   *Palmira, Colombia*
UNIVERSIDAD NACIONAL DE COLOMBIA SEDE PALMIRA   *Feb 2020–Dec 2021*
- Engineering and Administration faculty, Graduate Agroindustrial Engineering program, courses included: Experimental strategies in agroindustrial Engineering

Additional training and professional development

2022   **Genomic Prediction and Selection** (NextGen Cassava Breeding Project)
2021   **Phenotypic modelling of multi-enviroment trials** (Wageningen University)
2021   **Complete Python Developer in 2021: Zero to Mastery** (Udemy)
2021   **Design of experiments for optimization** (Udemy)
2021   **R for data science with Tidyverse** (Udemy)
2018   **Basic R programming language and introduction to LaTeX** (Universidad de San Buenaventura Cali)

Skills

Laboratory	Analytical	Programming	Software/Tools
Texture evaluation	Phenotype database curation/management	R (advanced)	Git/Github
Sensory attributes evaluation	Univariate/multivariate data analysis	Linux (intermediate)	LaTeX
Instrumental cooking analysis	Linear mixed models	RMarkdown	HTML
Starch extract	Reproducible research	Phyton (basic)	Exponent texture software

Selected presentations

2017   **Agro-industrial trends in the uses of capsicum species**, Invited to speak at the 1 st Ibero-American Congress on Agrifood Sciences, SENA

References

- Thierry Tran, PhD. Lead cassava postharvest quality laboratory CIAT. Phone: +4450000 ext: 3063 Email: `thierry.Tran@cgiar.org`

- Luis Fernando Londoño, PhD(c), MSc. Senior cassava postharvest quality laboratory coordinator CIAT. Phone: +4450000 ext: 3063 Celephone: +57 310 4315682 Email: `L.Londono@cgiar.org`

- Daniel Gerardo Cayón Salinas, PhD. Professor Universidad Nacional de Colombia Sede Palmira. Phone: +572 2868888 Ext.: 35132-3513 Celephone: +57 315 2489251 Email: `dgcayons@unal.edu.co`