



Luiz Diego Vidal Santos

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About me

Agricultural Engineer (UFS) and PhD in Intellectual Property and Innovation (UFS, 2023), with emphasis on sustainable agroforestry commercialization. Visiting Professor at the Graduate Program in Territorial Planning at the State University of Feira de Santana (UEFS) and researcher at the Incubator for Popular and Solidarity Economy Initiatives (UEFS).

Leader of the **PLANeT-Inova** group (Territorial Planning, Nature-Based Solutions and Sustainable Innovation). Member of the Research Groups on Hydroenvironmental Management of the Lower São Francisco River and on Soil Management and Sustainability, both affiliated with UFS. Co-founder of the Academic League for Sustainable Agriculture (L-AGROS) and the Unit for Technology Diffusion and Innovation in Soil and Water Conservation (UDTI).

Education

Period	Degree	Institution
2024–2026	Postdoctoral Research — Agricultural Sciences / Agronomy (CNPq Fellow)	UFS
2021–2023	PhD — Intellectual Property Science	UFS
2019–2020	MSc — Intellectual Property Science	UFS
2019–2022	Specialization — Rural Production and Development	Unyleya
2013–2014	Specialization — Quality, Health and Environmental Management	AVM Educacional
2016–2021	BSc — Agricultural Engineering	UFS

Professional Experience

- **State University of Feira de Santana (UEFS)** — Visiting Professor (2024 – Present). Graduate Program in Territorial Planning, Full-time.
- **Federal University of Sergipe (UFS)** — Postdoctoral Researcher (2019 – Present). Center for Applied Agricultural Sciences — Research, Extension and Development.
- **Regional Council of Physical Education (CREF 13)** — Inspection Supervisor (2021–2024). Public servant, full-time.
- **Federal Institute of Sergipe (IFS) — São Cristóvão Campus** — Professor (2021–2023).

Current Projects

Research

- **Safeguarding Traditional Agricultural Systems** (2025 – Present) — Development and application of mapping questionnaires, creation of a georeferenced database and evaluation scale (Likert) across five constructs to protect traditional knowledge in the Northeastern Semi-Arid region. Team: L.D.V. Santos (PI), C.O.V. Santana, P.R. Gagá, S.K.A. Sousa, R.A.S. Machado, T.C. Azevedo.
- **Technical Reference Unit for Geotextiles in Erosion Control** (2025 – Present) — Technical reference unit for geotextile application in soil erosion control. Team: L.D.V. Santos (PI), R.H. Marino, F.S.R. Holanda, A.S.N. Souza, R.A.S. Machado, T.C. Azevedo, K.R. Andrade, V.P. Neto, E.S. Santos.

Technological Development

- **CLEANBONER: Intelligent Monitoring System** (2025 – Present) — Intelligent environmental monitoring system. Team: L.D.V. Santos (PI), C.O.V. Santana, S.K.A. Sousa.
- **Biospeckle Laser — Frequency Analysis** (2017–2020, Completed) — Biospeckle laser application for frequency analysis and correlation with soil moisture values. Development of screening algorithms and Fourier Transform analysis.
- **Mycorrhizal Inoculants in Cherry Tomato** (Completed) — Effect of mycorrhizal fungi on the development and production of cherry tomato.

Extension

- **Empreenda AgroCast** (2020 – Present) — Educational podcast promoting entrepreneurship in the agricultural sector, created during the COVID-19 pandemic.
- **Academic League for Sustainable Agriculture (L-AGROS)** (2020 – Present) — University extension at UFS promoting sustainable agriculture and innovation.
- **Safeguarding Agricultural Systems — Extension** (2024 – Present) — Protection of traditional agricultural systems in the Northeastern Semi-Arid region.

Research Areas

- Territorial planning and nature-based solutions
- Soil and water conservation and sustainable management
- Intellectual property, technological prospection and patentometry
- Sustainable innovation, entrepreneurship and technology transfer

Teaching and Supervision

Visiting Professor at UEFS in the Graduate Program in Territorial Planning, supervising undergraduate, master's and doctoral students. Previously served as professor at IFS — São Cristóvão Campus (2021–2023) and visiting professor at the Agrotechnical State School of Jeremoabo (2011–2012).

Supervision areas: sustainable agriculture and nature-based solutions; soil conservation and biodiversity; intellectual property and technological innovation; agribusiness entrepreneurship; territorial planning.

Research Groups

Group	Affiliation
PLANeT-Inova — Territorial Planning, NBS and Sustainable Innovation	Leader (UEFS)
Hydroenvironmental Management of the Lower São Francisco	Researcher (UFS)
Soil Management and Sustainability	Researcher (UFS)

Awards and Distinctions

Year	Award
2020	1st Place — Honorable Mention (Oral Presentation), Brazilian Congress of Agricultural Engineering
2020	1st Place — Honorable Mention (Poster), Brazilian Congress of Agricultural Engineering
2019	Best Paper, International Symposium on Technological Innovation
2018	Outstanding Award SEMAC, UFS
2017	Outstanding Award SEMAC, UFS

Publications

Over 98 academic publications, including 69 journal articles, 3 book chapters and 26 conference papers. Fields: soil conservation, bioengineering, intellectual property, sustainable innovation and environmental branding.

Full list: <https://orcid.org/0000-0001-8659-8557>

Contact

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