Luiz Diego Vidal Santos

Agricultural Engineer · PhD in Intellectual Property & Innovation · Visiting Professor (UEFS)

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Summary

Agronomist and researcher specialized in **territorial planning**, **nature-based solutions (NBS)**, **intellectual property** and **sustainable innovation**. 10+ years bridging academic research and practical impact in Brazil's Semi-Arid region. Leader of the PLANeT-Inova group, with 98+ peer-reviewed publications and experience in multidisciplinary project coordination.

Key Competencies

- **Territorial Planning & NBS** — Land-use management, soil/water conservation, geotextiles for erosion control
- **Intellectual Property** — Patent landscaping (PatentSight), technology prospecting, tech transfer
- **Geospatial Analysis** — QGIS, ArcGIS, Google Earth Engine, remote sensing
- **Data & Research** — R, Python, SPSS, bibliometrics, systematic reviews
- **Project Leadership** — Grants (CNPq, FAPITEC), multidisciplinary teams, graduate supervision

Education

- **PhD in Intellectual Property and Innovation** — Universidade Federal de Sergipe (2019–2023)
- **MSc in Agricultural Engineering** — Universidade Federal de Sergipe (2013–2015)
- **BSc in Agricultural Engineering** — Universidade Federal de Sergipe (2006–2012)

Professional Experience

- **Visiting Professor** — PPG em Planejamento Territorial, UEFS (2023–present)
  Teaching, graduate supervision, research group leadership (PLANeT-Inova)
- **Visiting Professor** — PPG em Rede Nacional em PI e Transferência de Tecnologia (PROFNIT/UEFS, 2024–present)
  IP and technology transfer teaching at national network level
- **Postdoctoral Researcher** — PRONEM/FAPITEC/CNPq, UFS (2023–2025)
  Safeguarding traditional agricultural systems in Brazil's Northeastern Semi-Arid
- **Volunteer Lecturer** — IFS São Cristóvão (2021–2023)
  Teaching in Agricultural Sciences at the Federal Institute of Sergipe

Selected Projects

- **Safeguarding Traditional Agricultural Systems** — Georeferenced database with Likert-scale constructs for protecting traditional knowledge in the Semi-Arid
- **Geotextiles for Erosion Control** — Technical reference unit reducing soil loss in the Lower São Francisco
- **CLEANBONER** — IoT-based intelligent environmental monitoring system prototype
- **Empreenda AgroCast** — Educational podcast on agricultural entrepreneurship (50+ episodes, 5 states)

Publications & Impact

- **98+ publications**: 69 journal articles, 3 book chapters, 26 conference proceedings
- Topics: soil conservation, NBS, intellectual property, sustainable innovation, territorial planning
- Indexed in Scopus, Web of Science, and Google Scholar

Awards

- CNPq Research Productivity Scholarship (2023–2025)
- Honorable Mention — Innovative Research (CINTT/IFS, 2023)
- Best Paper Award — V Encontro Nordestino de Propriedade Intelectual (2022)
- 2nd Place — FAPITEC Innovation Award (2022)
- Top 10 Agricultural Solutions — Agroecology Challenge, IFS (2021)