Hugo Tameirão Seixas

I'm a Agronomic Engineer, Master in Remote Sensing and PhD student in Environment and Society.
Specialized in data analysis, data visualization and modelling.

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🏛 Education ───────────────────────

State University of Campinas (UNICAMP)
Campinas, SP

PhD in Environment and Society
Mar 2021 - Present

- Conducting interdisciplinary research.
- Project theme: Estimates of carbon sequestration potential by crop-livestock-forest integration systems in Brazil

National Institute for Space Research (INPE)
São José dos Campos, SP

Master in Remote Sensing
Mar 2018 - Mar 2020

- Physical Fundamentals of Remote Sensing, Spectral Response of Targets, Digital Image Processing.
- Dissertation Theme: Analysis of Caatinga resilience to extreme drought events. ⌂

Limerick Institute of Technology
Thurles, Ireland

Exchange Program: Environmental Management
Jun 2015 - Jun 2016

- Scientific Methodology, Report Writing, Geoprocessing.
- Improved English communication skills.

School of Agriculture "Luiz de Queiroz" (ESALQ-USP)
Piracicaba, SP

BS in Agronomic Engineering
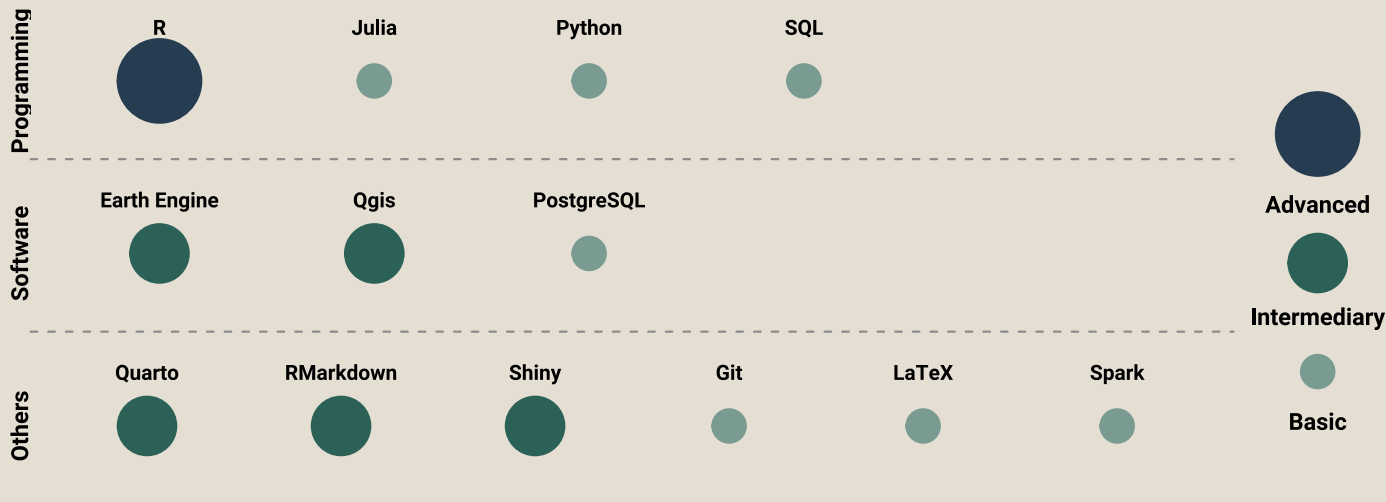*Feb 2011 - Jul 2017*

- Plant and Animal Production, Hydrology, Introduction to Geoprocessing and Remote Sensing
- Thesis Theme: Analysis of the influence of time and storage on the spectral response of Mombasa grass leaves after sampling.

🧠 Skills ───────────────────────

⚙ Technical Skills

R	**Julia**	**Python**	**SQL**

Programming

Earth Engine	**Qgis**	**PostgreSQL**

Software

Advanced

Intermediary

Quarto	**RMarkdown**	**Shiny**	**Git**	**LaTeX**	**Spark**

Others

Basic

🔤 Language

	Portuguese	English	French
Writing	Native	C1	A2
Speaking	Native	C2	B1
Reading	Native	C2	B1
Listening	Native	C2	B1

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💼 Professional Experience

Sysfer
FREELANCE DATA SCIENTIST
Nov 2021 - Jan 2022
- Development of a classification model to identify areas with probability of invasion of railway lines in the West Network.
- Results assisted in decreasing the time needed to perform visual identifications of invasions.

Embrapa Territorial
Campinas, SP
TECHNICIAN
Mar 2020 - Mar 2021
- Project: 403965/2019-5 - Qualification of human resources at Sipam.
- Development of methodology to calculate conversion time from forest to agriculture in the Amazon, using MapBiomas data. 🜨
- Conducting research on patterns of land use and land cover change.
- Use of techniques for processing a high volume of data.

Gaivota
FREELANCE CONTENT WRITER
Fev 2020 - Jun - 2020
- Writing articles for a newsletter on the application of geotechnologies in Agriculture.

TopoGeo
Piracicaba, SP
INTERN
Sep 2016 - Jun 2017
- Assisting in studies on spectral response of vegetation in field and laboratory using portable hyperspectral-radiometers.
- Development of publications for journals and events.

Cork City Council
Ireland
INTERN
Jun 2016 - Aug 2016
- Use of GIS (ArcGIS) for map creation and location benchmarking of construction/refurbishment projects.
- General office activities. Printing, scanning, file organization, field surveys.
- Assisting work in the planning department. Organizing and reviewing construction project documents. Organizing and creating spreadsheets in Excel.

TopoGeo
Piracicaba, SP
INTERN
Jun 2013 - Jun 2015
- Assisting in plani-altimetric surveys.
- Assisting in the collection of vegetation samples in the field.
- Beginning experience using GIS such as QGIS.

📄 Publications

THE DRIVERS AND IMPACTS OF AMAZON FOREST DEGRADATION, SCIENCE.	*2023*
EXPLORING THE ECOSYSTEM RESILIENCE CONCEPT WITH LAND SURFACE MODEL SCENARIOS, ECOLOGICAL MODELLING.	*2022*
RELATIONSHIP BETWEEN BIOMASS BURNING EMISSIONS AND DEFORESTATION IN AMAZONIA OVER THE LAST TWO DECADES, FORESTS.	*2021*
2020 PANTANAL'S WIDESPREAD FIRE: SHORT- AND LONG-TERM IMPLICATIONS FOR BIODIVERSITY AND CONSERVATION, BIODIVERSITY AND CONSERVATION	*2021*
RAPID RECENT DEFORESTATION INCURSION IN A VULNERABLE INDIGENOUS LAND IN THE BRAZILIAN AMAZON AND FIRE-DRIVEN EMISSIONS OF FINE PARTICULATE AEROSOL POLLUTANTS, FORESTS.	*2020*