

Henrique Aparecido Laureano

Brazilian, 30 y/o, married

Statistician and Data Scientist w/ a Masters in
Statistics and Numerical Methods in Engineering

Residence: Curitiba-PR, Brazil

URL/Portfolio: <https://henriquelaureano.github.io>

LinkedIn: <https://www.linkedin.com/in/henrique-laureano-025328179>

Email: henriqueaparecidolaureano@gmail.com

Professional Experience

Oct/2022-Present **Senior Data Scientist**, *Volvo Trucks Latin America* – Curitiba-PR, Brazil

BI & Advanced Analytics CoE, delivering data-driven solutions across Customer Experience & Services, Marketing, People & Culture, Product & Strategy, Sales, Operations Planning (S&OP), and Business Control.

- Enhanced forecasting accuracy by more than 10%, reducing errors to under 5% for both short-term (quarterly) and long-term (up to 10 years) volume forecasts of the truck whole market in Chile and Peru.
- Achieved significant (six digits) cost reductions in monthly corrective expenses by employing statistical modeling on telemetry data from vehicles under a gold service contract plan.
- Developed new visualization tools, metrics, and insights for People & Culture initiatives in the LAM region.
- Routinely applied advanced analytical techniques, including clustering, price elasticity analysis, churn analysis, hypothesis testing, and statistical/machine learning modeling.

May/2021-Sep/2022 **(Bio)Statistician**, *Pelé Pequeno Príncipe Research Institute* – Curitiba-PR, Brazil

Together with the Pequeno Príncipe Hospital - the largest pediatric hospital in Brazil, and the Pequeno Príncipe University, comprise the Pequeno Príncipe Complex.

- Led data visualization, sampling design, and statistical and predictive modeling for complex, infectious, and oncogenetic diseases, as well as for epidemiological, clinical studies, and bioinformatics projects.
- Authored six international scientific publications focusing on pediatric health challenges.

Jan/2017-Apr/2021 **(Bio)Statistician**, *Outside consultant* – Campinas-SP, Brazil; Thuwal-JED, KSA; Curitiba-PR, Brazil

Provided statistical consultancy to researchers across a diverse range of fields including Agronomy, Biology, Economics, Nursing, Electrical and Chemical Engineering, Pharmacy, Education, Psychology, Chemistry, Medicine, and Zootechnics.

(May-Dec)/2016 **(Bio)Statistician**, *Telehealth Center – Hospital das Clínicas (UFMG)* – Belo Horizonte-MG, Brazil

Primarily worked in the research group on echocardiography in tropical diseases, developing predictive and statistical models to identify and quantify risk factors for Chagas and rheumatic diseases. Contributed to the design and execution of studies and experiments, specializing in data analysis and visualization.

- Led the transition of data analysis platforms from SPSS to R, incorporating advanced techniques such as competitive risks and multi-state survival models.

Transitioned to pursue a Master's in Statistics at UNICAMP, focusing on advanced stats methodologies.

Education and Training

2019-2021 **Masters in Statistics and Numerical Methods in Engineering**, Universidade Federal do Paraná (UFPR)

Focused on statistical modeling of complex systems in epidemiology, environment, and finance.
Authored five international scientific publications.

2017-2019 Interrupted **PhD in Applied Mathematics and Computational Sciences (AMCS)**, King Abdullah University of Science and Technology (KAUST)

Part of the Bayesian Computational Statistics and Modeling research group.
Prior, I completed one semester as a Master's student in Statistics at UNICAMP.

2017 Interrupted **Masters in Statistics**, Universidade Estadual de Campinas (UNICAMP)

2011-2016 **Bachelor in Statistics**, Universidade Federal do Paraná (UFPR)

Two years of Scientific Initiation Federal Program, specializing in statistical modeling (frequentist and Bayesian) programming (R, Python, C++). Provided numerous consultancies, leading to international publications.

Skills and Certifications

Languages: Advanced English and native Portuguese.

Technical Proficiency:

- **Programming Languages:** R, Python, Julia, C++, MATLAB.
- **Data Science and AI:** INLA, Stan, JAGS, RTorch, PyTorch, JAX, TensorFlow, Keras.
- **Database and Data Manipulation:** SQL, tidyverse, Spark, polars, pandas, NumPy.
- **Web Development:** HTML, CSS, JavaScript.
- **Development Environments:** Emacs, RStudio, Visual Studio Code.
- **Version Control and Operating Systems:** Git, Linux.

Microsoft Technologies:

- **Cloud and Data Integration:** Azure (Databricks, Data Factory).
- **Business Applications:** Power BI, PowerApps, Power Automate.

Soft Skills:

Mathematical and statistical modeling, keen attention to detail, ability to work independently or as part of a team, adaptability to fast-paced environments, strong verbal, and written communication skills.

Document Processing: Proficient in LaTeX and Markdown.

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