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
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Professional Experience

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

Data Scientist at the BI & Advanced Analytics CoE, delivering data-driven solutions to areas such as Customer Experience & Services, Marketing, People & Culture, Product & Strategy, Sales, and Operations Planning (S&OP), and Business Control.

Responsible for short- and long-term probabilistic forecasting, clustering, price elasticity analysis, churn analysis, hypothesis testing, and statistical and 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.

Data visualization, sampling design, and statistical and predictive modeling/analysis of complex, infectious, and oncogenetic diseases; along with epidemiological and clinical studies and bioinformatics.

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 focused on identifying, quantifying, and predicting risk factors for Chagas and rheumatic diseases. Additionally, contributed to the creation of studies, experiments, and the analysis and visualization of data.

Transitioned from the Telehealth Center to pursue a Master's in Statistics at UNICAMP.

Education (Training and Experiences)

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

Statistical Methods research line, specializing in the statistical modeling of complex systems, including epidemiological, environmental, and financial phenomena.

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

Spent 1.5 years in Saudi Arabia as a graduate student and was a member of the Bayesian Computational Statistics and Modeling research group at KAUST.

Prior to that, 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, gaining extensive experience in statistical modeling (both frequentist and Bayesian) and proficiency in programming languages such as R, Python, and C++. Provided numerous consultancies during my bachelor's degree, leading to international scientific publications.

Skills and Certifications

- **Languages**: Advanced/fluent English and native Portuguese.
- **Programming Languages**: Proficient in R, Python, Julia, C++, and MATLAB.
- **Modeling Libraries and Frameworks**: Experienced with INLA, Stan, JAGS, RTorch, PyTorch, JAX, TensorFlow, and Keras.
- **Microsoft Azure**: Skilled in Databricks and Data Factory.
- **Database Management**: Proficient in SQL and data manipulation using tidyverse (R), Spark (R and Python), polars (R and Python), pandas, and NumPy (Python).
- **Typesetting and Code Editors**: Proficient in LaTeX and Markdown; skilled in Emacs, RStudio, and Visual Studio Code (VSCode).
- **Web Technologies**: Experienced in HTML, CSS, and JavaScript.
- **Microsoft Business Applications**: Proficient in Power BI; experienced with PowerApps and Power Automate for RPA.
- **Version Control**: Proficient in Git.
- **Operating Systems**: Proficient in the Linux environment.

- **Mathematical and Statistical Modeling**: Advanced knowledge in mathematical modeling, statistics, and optimization.
- **Attention to Detail**: Keen attention to detail, able to prioritize deliverables and meet deadlines.
- **Independence and Teamwork**: Self-starter capable of working independently and collaborating effectively within teams.
- **Adaptability**: Comfortable in a fast-paced environment, adaptable to new challenges, and capable of managing multiple projects.
- **Communication**: Strong communication skills, both orally and in writing.

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