Magloire LOUDEGUI DJIMDOU

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Summary

I am a statistician with a combination of 8 years of research, modeling and analysis in Statistics. I am proficient in SAS, R and Python.

Experience

Senior Credit Risk Analyst, Modeling
Laurentian Bank
Jul 2022 - Present (6 months +)
I participate in the development, implementation and monitoring of credit risk assessment models (logistic and survival models)

Software: SAS Enterprise Guide, SQL Plus

Statistician - Predictive Modeling
FPInnovations
Jan 2022 - Oct 2022 (10 months)
• Modeling the (inner) wood quality (assessed by knot geometry, e.g knot size) from tree's (external) characteristics (branch length, stem diameter…)
• Parametric and non-parametric statistical analysis (linear regression, local linear regression, functional data regression)
• Software: R

Mathematical Statistician
Statistics Canada
Jan 2022 - Jun 2022 (6 months)
• Probabilistic record linkage and error rate assessment
• Manipulation of large datasets (hundreds of thousands to hundreds of millions observations)
• Software: SAS, SQL

Research Assistant
Concordia University
Sep 2016 - Dec 2021 (5 years 4 months)
• Research and development of statistical methodologies

- Topic: "Inference Procedures for Copula-Based Models of Bivariate Data"
- Distribution of the survival function of an Archimedean copula
- Two-non-parametric estimators for the generator of an Archimedean copula

- Development of a plug-in Kendall tau estimator and a pseudo-likelihood maximization procedure for censored data
- Application of the new methods (Kendall tau and MLE) to data (epidemiology and insurance)

• Programming

- Codes for the estimation procedures and data analysis using R

Teaching Assistant
Concordia University

Sep 2016 - Dec 2021 (5 years 4 months)
- Marking: Statistical simulation, Linear programming, Discover statistics, Linear models courses
- Managing Webwork, the website for Math 200 homeworks (https://webwork.concordia.ca/webwork2): creation of student accounts, creation of course webpages
- Class tutoring: Elementary linear algebra, Integral calculus
- Tutoring at the Math Help Center: https://www.concordia.ca/artsci/math-stats/services/math-help-centre.html

Faculty Lecturer
Concordia University

Sep 2018 - Dec 2018 (4 months)
• Course: Elementary linear algebra (Math 204)
• Preparing lecture notes
• Teaching the material (2.25h/week for 13 weeks)
• Marking exams (mid-term and final)
• Holding office hours (1.25h/week)
• Class of 100 students

Statistician
CPAM de l'Essonne

Mar 2016 - May 2016 (3 months)
• Querying ERASME health insurance database
• Automation of tasks
• Statistical data analysis
• Software: SQL, SAS

Software Development Engineer
STMicroelectronics

Apr 2015 - Sep 2015 (6 months)
• Participation in the improvement of a software named GoNoGo, which main goal is the estimation of the failure probability of an industrial product

• Stable implementation for Dirichlet density and iterative formula giving a Dirichlet density as a product of bêta densities

• Software

- Matlab scientific environment for the mathematical functionalities
- Tcl-Tk language for the interface
- EZWave for the graphic displays

Statistician
Irstea
Apr 2014 - Aug 2014 (5 months)
- Comparison of several spatializations over France for SHYPRE, a rainfall stochastic generator
- Compared methods: inverse distance weighting, kriging (ordinary, universal, with external drift), multiple linear regression
- Software: R

Statistician
Institut de Recherche Agricole pour le Développement (IRAD)
Jul 2012 - Sep 2012 (3 months)
- Determination of selection criteria for rice varieties at different stages: logistic regression analysis (R. COE method) and multinomial regression
- Classification analysis: Wilcoxon-Mann Whitney test, Kruskal-Wallis test
- Software: STATA

Statistician
Africa Rice Center
Jul 2011 - Sep 2011 (3 months)
- analysis of factors explaining the adoption of new rice varieties using logistic regression
- estimating the impact of adoption on the per capita agricultural income of rice-growing households using Rubin's causal model
- Software: STATA

Education

Concordia University
PhD, Statistics
Sep 2016 - Dec 2021

Pierre and Marie Curie University
Master's degree, Statistics
2014 - 2015

Université de Caen Normandie
Master's degree, Applied Mathematics
2013 - 2014

ISSEA-CEMAC

Ingénieur d'Application de la Statistique, option Système d'Information et Statistique Décisionnelle, Statistics
2008 - 2012

Licenses & Certifications

SAS Base Programmer - SAS
BP048498v9

Skills

RStudio • R Markdown • SQL*Plus • SAS Enterprise Guide • Credit Rating • Credit Scoring • Stress Testing • Causal modelling • Impact Evaluation • Logistic Regression

Honors & Awards

Scholarship - Ministry of Higher Education, Scientific Research and Professional Training - Chad
Oct 2008

Scholarship - Service de la Coopération et de l'Action Culturelle - France
Oct 2008
Reason: Excellent national ranking at the entrance examination to ISSEA

Duration: 4 years: September 2008 - September 2012

Highest ranking student at the "Bac" national examination - Ministry of Higher Education, Scientific Research and Professional Training - Chad
Jul 2008
Grade: 16.36 / 20

Graduate Fellowship of the Faculty of Arts and Science - Concordia University
Sep 2016
Amount: $ 10,000 / year, over 3 years

International Tuition Award Excellence - Faculty of Arts and Science of Concordia University