# 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

### ® Africance 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



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

2008 - 2012

### **Licenses & Certifications**



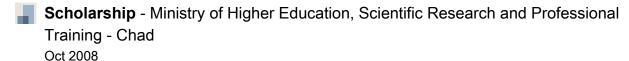
**SAS Base Programmer** - SAS

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 - 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