

## Coordonnées

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(LinkedIn)  
[github.com/Djimdou](https://github.com/Djimdou) (Blog)

## Principales compétences

Statistical Modeling  
Python  
R

## Languages

English (Professional Working)  
Mbaye (Native or Bilingual)  
French (Full Professional)

## Certifications

SAS Base Programmer

## Honors-Awards

Scholarship  
Scholarship  
Highest ranking student at the "Bac" national examination  
Graduate Fellowship of the Faculty of Arts and Science  
International Tuition Award Excellence

## Publications

Distribution of the joint survival function of an Archimedean copula

# Magloire LOUDEGUI DJIMDOU

Data scientist // Finishing a PhD in Statistics  
Montréal

## Résumé

In my senior year of high school, I was fascinated by a problem that asked: "what is the probability that two friends who have made an appointment between 12:00 pm and 1:00 pm will meet, if they decide not to wait for each other for more than 10 minutes?"

The simplicity of the statement and its practicality made me love probabilities. The very idea of being able to quantify uncertainty puzzled me (and still does). I decided to study statistics at university. Using data to make decisions in an uncertain world is what I like about the job of a statistician.

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## Expérience

Concordia University  
PhD Student in Statistics / Research Assistant  
août 2016 - Present (4 ans 1 mois)  
Montreal, Quebec, Canada

- Research and development of statistical methodologies
- Topic: "Selecting Archimedean copulas"
- Properties and applications of a new non-parametric estimator in survival analysis
- Application of the new methods to data (epidemiology and insurance)
- Scientific paper: "Distribution of the joint survival function of an Archimedean copula" (submitted to the journal "Statistics & Probability Letters")
- Programming
- Codes for the new estimator and its asymptotic properties and data analysis using R
- Teaching assistantship

- Teaching: Elementary linear algebra (Fall 2018)
- 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>

## CPAM de l'Essonne

### Data Scientist

mars 2016 - mai 2016 (3 mois)

Evry Courcouronnes

- Querying ERASME health insurance database
- Automation of tasks
- Statistical data analysis
- Software: SQL, SAS

## STMicroelectronics

### Software Development Engineer

avril 2015 - septembre 2015 (6 mois)

Région de Tours, France

- 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 language for the interface
  - EZWave for the graphic displays

## Irstea

### Data Scientist

avril 2014 - août 2014 (5 mois)

Aix-En-Provence, France

- 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

#### Institut de Recherche Agricole pour le Développement (IRAD)

##### Data Scientist

juillet 2012 - septembre 2012 (3 mois)

Yaoundé, Cameroun

- 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

#### Africa Rice Center

##### Data Scientist

juillet 2011 - septembre 2011 (3 mois)

Cotonou, Bénin

- 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

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## Formation

#### Concordia University

PhD, Statistics · (2016 - 2020)

#### Université Pierre et Marie Curie (Paris VI)

Master's degree, Statistics · (2014 - 2015)

#### Université de Caen Basse 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)