

# Rachidou OUOROU

## PROFESSIONAL EXPERIENCE

2023  
|  
Now

### ● **Biostatistics Internship**

Institut Pierre Louis d'Epidémiologie et de Santé Publique

📍 Paris, France

- Data analysis of the first year of a clinical trial in Mali (vaccine efficacy, immune response, identification of good response characteristics according to antibodies production after vaccination, )
- Participation in the preparation of the implementation of a clinical trial in phase 2B (statistical informations)
- Study of the importance of Procalcitonin in the prediction of imported falciparum malaria in children
- Study of the impact of using Mosquito net on the malaria incidence in Benin country

2021

### ● **Data analyst**

Data analyst consultant on various medical thesis research topics

📍 Parakou, Bénin

- Maternal-fetal prognosis and risk factors for childbirth in adolescents
- Contribution of medical imaging in the diagnosis of acute abdominal pain
- Study of deafness linked to the noise of crushing mills

2020

### ● **Intern Statistician, Departmental University Hospital**

Internship in the Statistics Department of the University Hospital of Parakou

📍 Parakou, Bénin

- Input mask design
- Data gathering
- Data entry and processing
- Participation in the drafting of the annual report of the CHU

## RESEARCH EXPERIENCE (PROJECTS)

### ● **Articles analysis**

Understanding of the methods used, identification of results and reviews

- Prevalence Odd Ratio or Prevalence Ratio in cross-sectional data analyzes (Mary Lou Thompson, J E Myers, D Kriebel)
- Number of response categories in ordered-response models (Maria Iannario, Anna Clara Monti)

### ● **Data analyse**

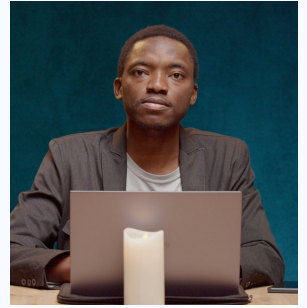
Academic projects: These projects can be found on my [github page](#)

- Determinants of neonatal mortality in Benin (End of license dissertation)
- Non-parametric method in survival analysis (**diabetic** data)
- Classification of cell lines into cancer type (**NCI60** data)
- Differential expression (data **prostate cancer**)
- Text mining to create a copy of cémantix game : [link of the true game](#)

### ● **Data visualisation**

Visualization of population dynamics (Age pyramid)

- Reproduction, improvement and actualisation of the first age pyramid by Francis Walker
- Shiny application
- Cartography



## CONTACT

✉ [rachidred52@gmail.com](mailto:rachidred52@gmail.com)

📞 + 33 6 01 02 35 63

46 Rue Victor Hugo,  
PANTIN, FRANCE  
Age : 24 years old

## SKILLS

### Programming

R, Python, SAS, SQL,

### Biostatistics

Epidemiology (Survival analysis, Risk factors, OR, RR, ...),  
Genetics (Family cohort analysis, Gene-disease association, differential gene expression),  
clinical research (sample size calculation, power of trial, vaccine efficacy, trial data analysis...)

### Statistics

Statistical tests, Regressions (linear, generalized, ordinal, penalized), Time series, ACP, PLS, large dimensions

### Machine learning

Unsupervised classification algorithm (CAH, K-means, ...),  
Supervised classification algorithm (KNN, CART, random forest, ...),  
Cross-validation, bootstrap, bagging, etc...



## EDUCATION

2021  
|  
Now



### Université Paris Cité

Master 2 Mathematical Engineering and Biostatistics

📍 Paris, France

2017  
|  
2020



### Ecole Nationale de Statistique de Planification et de démographie

Applied Statistics bachelor degree

📍 Parakou, Bénin



## HOBBIES



### Favourite activities

- Football
- Japanese culture
- Reading