

Do Edmond Sanou

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Third-year engineering student at ENSAI

Education

- **Ecole Nationale de la Statistique et de l'Analyse de l'Information (ENSAI)** France
MSc Biostatistics 2016 - 2019
- **Université Nazi Boni** Burkina Faso
Bachelor's degree in Statistics-Computer Science 2013 - 2016

Work Experience

- **Radioprotection and Nuclear Safety Institute** France
(April - September) 2019
 - Characterization of the inter-individual variation of the gene response to irradiation
- **Genetic project** France
(2 months) 2018 - 2019
 - Discriminated immune cell types through their genetic expression
 - Visualized data through UMAP and PCA
 - Evaluated the prediction performance of sPLS-DA, Lasso and Elastic-net
- **Omics data analysis project** France
(2 months) 2018
 - Compared the omics data of Alzheimer's patients and healthy controls with non-adjusted and adjusted methods
 - Studied the top SNPs identified
- **Radioprotection and Nuclear Safety Institute** France
(3 months) 2018
 - Modeled temporal kinetics of transcriptomic and proteomic data for the study of the endothelial cells response to irradiation with GAM model
 - Clustered the kinetics curves with PAM algorithm
- **Second year statistics project** France
(5 months) 2018
 - Clustered in subgroups patients with breast cancer through RNA sequencing, proteomic and mutation data (TCGA) with K-means and Hierarchical Clustering
 - Validated clusters by bootstrap

Main Skills

- *Statistics* : Omics data analysis, Clustering, Linear and non-linear regression, Mixed models, Variables selection methods, Clinical tests, Survival Analysis, Sampling, Meta-analysis
- *Computer Science* : R , SAS, WinBUGS, STATA, Microsoft Office, Python, C++
- *Language* : French (native language), English (working proficiency)

Miscellaneous

Piano, chess