



Chamberlain Mbah

Curriculum Vitae

"I want to understand things and explain them even better"

Work Experience

- 2019– — **Data/Research Scientist**, *Yields.io*, Brussels, Belgium.
- Built generative models (Generative adversarial Networks GANs, variational autoencoders (VAEs) for synthetic data generation. Synthetic applications are numerous including facilitating PoCs and bypassing data privacy.
 - Applied various statistical test to check data quality
 - Applied state of the art techniques like autoencoders for anomaly detection and outlier detection.
 - Make sure the models in production for our clients adhered to the Assessment List for Trustworthy Artificial Intelligence (ALTAI). ALTAI recommends that models are explainable, fair and unbiased.
 - Created Machine learning (ML) pipelines from data versioning with hudi to serving models with kubeflow.
 - Containerise ML models.
- 2019– — **Visiting lecturer**, *African institute of Mathematical Science*, Mbour, Senegal.
- Main lecturer of the course High Dimensional Data Analysis
 - Main lecturer of the course Convolutional Neural Networks
 - Supervisor of Master's thesis
 - Research grants applications
- 2018–2019 **Lead data scientist**, *Tobania*, Brussels, Belgium.
- Monitored and scheduled data scientists on different project.
 - Brainstorm on the approach to take in tackling different ML problems.
 - Built model and attrition models, serve this model with REST API endpoints.
 - Designed multiple experiments for testing marketing approaches, analysed the results with simple statistical test and display findings to the C-level.
- 2017–2018 **Research Assistant**, *Gent University*, Gent, Belgium.
- 2013–2017 **Ph.D. research**, *Gent University*, REQUITE, FP7 project.

Awards

- 2013 FP7 Scholarship for Ph.D. research under the REQUITE Project

Education

- 2013– 2017 **Ph.D. in Statistical Data Analysis**, *Gent University*, Gent, Belgium.
- 2011– 2013 **Masters in Statistical Data Analysis**, *Gent University*, Gent, Belgium.
- 2008– 2010 **Masters in Studies in Mathematics**, *University of Buea*, Buea, Cameroon.
- 2005– 2008 **Bachelor in Mathematics**, *University of Buea*, Buea, Cameroon.

Selected publications

- **C Mbah**, J De Neve, O Thas. *High dimensional prediction of binary outcome in the presence of between-study heterogeneity*. *Statistical Methods in Medical Research* (in press). -
- **C Mbah**, K De Ruyck, S De Schrijver, C De Sutter, K Schiettecatte, C Monten, L Paelinck, W De Neve, H Thierens, C West, G Amorim, O Thas and L Veldeman (2018). *A new approach for modeling patient overall radiosensitivity and predicting multiple toxicity endpoints for breast cancer patients*. *Acta Oncologica*, 57:5, 604-612, DOI: 10.1080/0284186X.2017.1417633 -
- **C Mbah**, H Thierens, O Thas, J De Neve, J Chang-Claude, P Seibold, A Botma, C West. *Pitfalls in Prediction Modeling for Normal Tissue Toxicity in Radiation Therapy: An Illustration With the Individual Radiation Sensitivity and Mammary Carcinoma Risk Factor Investigation Cohorts*. *Int J Radiat Oncol Biol Phys*. 2016 Aug 1;95(5):1466-1476. doi: 10.1016/j.ijrobp.2016.03.034. Epub 2016 Apr 1. -
- **C Mbah**, K Peremans, S Van Aelst, DF Benoit. *Robust Bayesian seemingly unrelated regression model*. *Computational Statistics* . 2019.

Interests

- Football
- Running
- Walking