YOVNA JUNGLEE

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EDUCATION

University of Cape Town   Cape Town, South Africa

Master of Science, Advanced Analytics   *Jan. 2020 – Dec. 2021*

- *Coursework*: Multivariate Analysis, Advanced Topics in Regression, Mathematical Modelling of Infectious Diseases, Simulation and Optimisation, Machine Learning, Longitudinal Data Analysis.
- *Coursework GPA*: 84% – in the first class.
- *Research group*: Statistics for Ecology, Environment and Conservation (SEEC).

University of Cape Town   Cape Town, South Africa

Bachelor of Business Science, Analytics   *Jan. 2016 – Dec. 2019*

- *Honours*: Mathematical Statistics and Operations Research (82%).
- *Final GPA*: 72% – in the upper second class.
- Dean's Merit List (2019).

Loreto College Quatre Bornes   Mauritius

Cambridge A-levels: Mathematics, Physics, Chemistry. AS-Levels: French, General Paper.   *Jan. 2009 – Dec. 2015*

TEACHING EXPERIENCE

Assistant Lecturer   July 2020 – Dec. 2021

Department of Statistical Sciences, University of Cape Town   *Cape Town, South Africa*

- **Instructor**: Mathematical Statistics, STA2005S, Linear Models (2020, 2021).
- **Instructor**: Applied Statistics, STA3022F, Applied Multivariate Data Analysis (2021).
- **Tutor**: Statistical Computing for Honours in Statistics and Operations Research (2021).
- **Tutor**: SEEC ACCESS Online Short Course (2021).

RESEARCH PROJECTS

- **MSc Thesis** (Ongoing) | Bayesian analysis of historical functional linear models with application to air pollution forecasting. The goal is to develop a Bayesian framework for the analysis of historical functional linear models. An R/Rccp package is under development to fit these models. ([GitHub/yovnajunglee/BayesHFLM](https://github.com/yovnajunglee/BayesHFLM))
- **Honours Thesis** (89%) | Spatial Occupancy Models – Reducing run-times. The objective of the research was to develop computationally scalable spatial occupancy models using consensus Monte Carlo algorithms. Our study was a step towards making these algorithms more efficient and accessible, and to thus have a wider impact on the field of ecology.

WORK EXPERIENCE

Intern, Data Science   Dec. 2018 – Jan. 2019

Axess Ltd   *Mauritius*

- The objective of my internship was to assist in optimising the spare parts inventory management.
- Cleaned, analysed and formatted a high volume of sales and car servicing records (in MS SQL).
- Built statistical models to predict the demand for spare parts and car arrivals for servicing (in R).

TECHNICAL SKILLS

Computer languages: Proficient in R, C++. Familiar with Python, Java, SQL.

LANGUAGE

Fluent (read, write and speak) in English and French.

Possess a Diplôme d'études en langue française (DELF niveau B2)