



ArabiStat

Statistical Analysis and Consulting



Programming

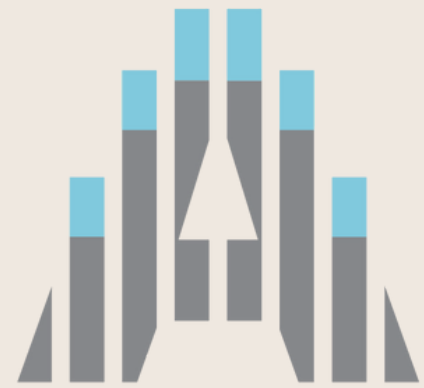
LEVEL II



Course Content

Level II

Lecture #	Lecture Title	Lecture details
I	Introduction to Montecarlo simulation And handling error Visualization	Handling errors in R: <ul style="list-style-type: none">• Simulation concept• Applying on simple linear regression Introduction to ggplot: <ul style="list-style-type: none">• Different layers in ggplot• Details on Data, aesthetics, geometric, theme, coordinates and stats layers

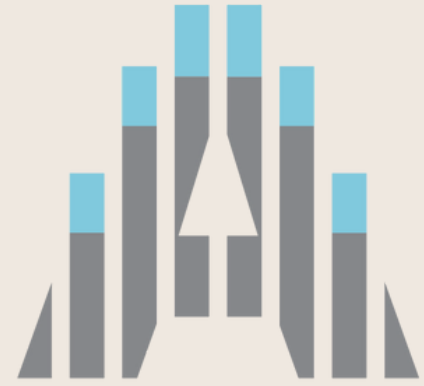


Course Content

Lecture #	Lecture Title	Lecture details
II	Parallel programming Handling dates and times	Introduction to parallel programming: <ul style="list-style-type: none">• parLapply• The parallel apply family• Foreach• Futures• Mapping the future• Advanced operation with furr Working with dates and time in R

Course Content

Lecture #	Lecture Title	Lecture details
III	Functions Packages and environments	Functions: <ul style="list-style-type: none">• Creating functions• All about arguments• Returning values Packages and environments: <ul style="list-style-type: none">• Creating and exploring environment• Package structure• Package bbuild• Load_all(), check(), package dependencies• Package documentation• Design and build an R package• Use unit tests and robust checks



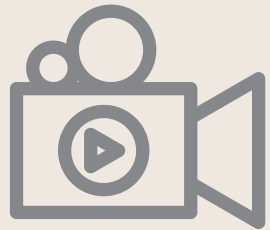
Course Content

Lecture #	Lecture Title	Lecture details
IV	String Manipulation OOP	String manipulation: <ul style="list-style-type: none">• Introduction to stringer• Pattern matching.• Regular expression Introduction to OOP: <ul style="list-style-type: none">• Using R6• R6 inheritance



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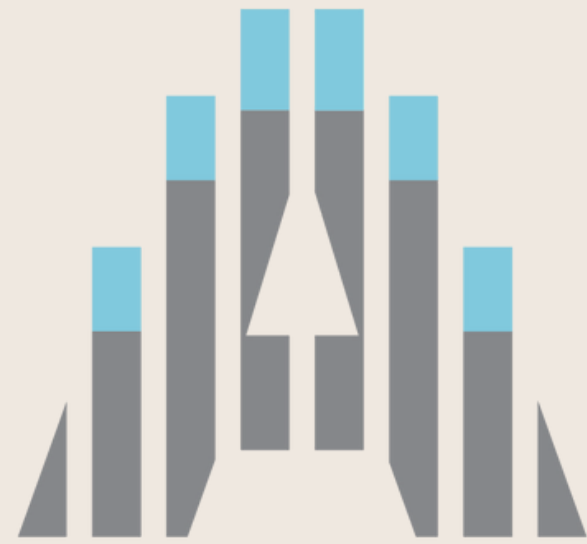
- **All sessions are recorded .**



- **After each session we send lecture's material and recording link.**



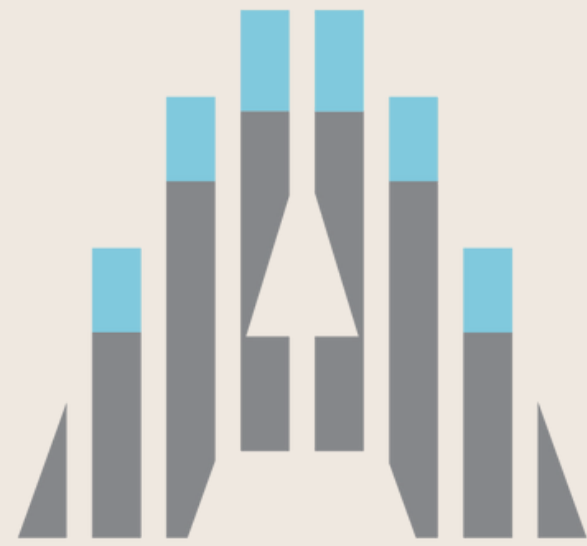
- **You will get a certificate from ArabiStat.**



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**If you are NOT a statistician
You are Very Welcome to Learn Statistics
with ArabiStat**



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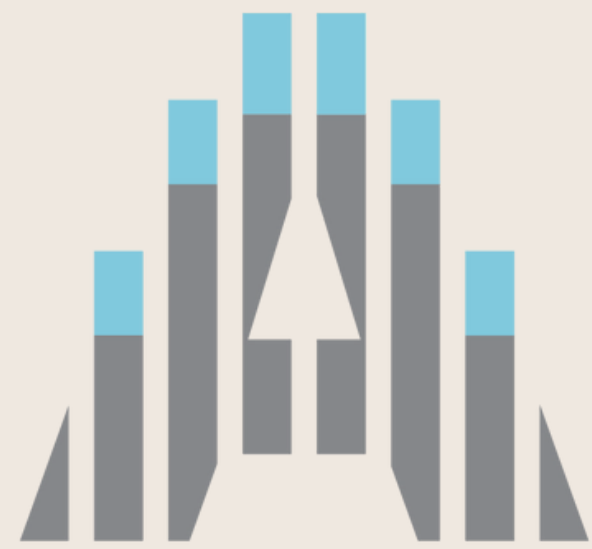
Instructor

Dr. Mariam Metawe'e DataScientist

Academic and Practical experience in Two Majors: Data Sciences and Veterinary Medicine. Over 15 years experience in data analysis, and over 1000 hours teaching DataScience (programming using Python or R, Statistics and Machine Learning).



<https://www.linkedin.com/in/mariam-metawe-e-13864656/>



ArabiStat

Statistical Analysis and Consulting

Instructor

Dr.Mariam Metawe'e DataScientist

Education

Statistics

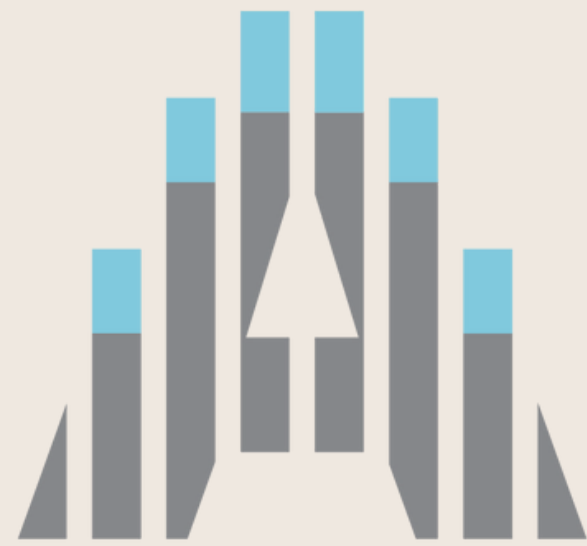
- PhD in statistics (on progress)
- Master degree in Statistics
- Two years diploma in mathematics and statistics

Medicine

- Master degree in Experimental medicine and drug design
- Diploma in Experimental medicine
- Bachelor degree in Veterinary medicine.

Programming

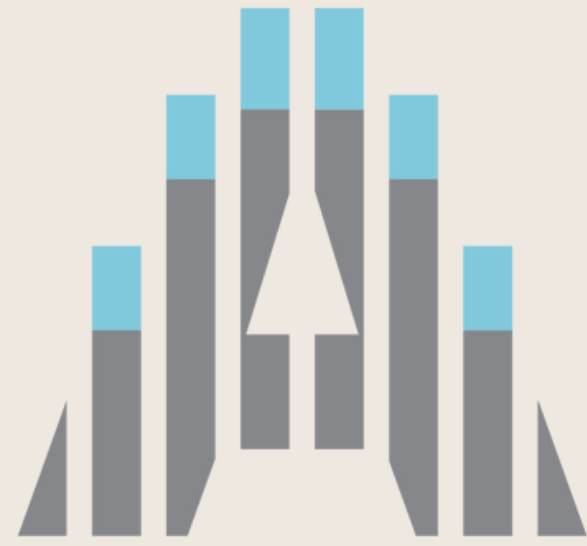
- Machine Learning with python - Best Developer at ElectroPI
- Certified data analysis using python from DataCamp
- R programming in FGSSR



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ArabiStat combines the power of statistical and mathematical knowledge along with the efficiency of programming.



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Thanks!