

LISA 2020

Laboratory for Interdisciplinary Statistical Analysis

Basic Statistical Methods for Physical Sciences

With Examples in R

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...from Background of Theories to the Realm of Realities...



**Foundation of Laboratory for
Econometrics & Applied Statistics of
Nigeria (Aka FOUND-LEAS-IN-NIGERIA)**

...we Found Leas in Nigeria, Come Invest in it...

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DEDICATION

This Workshop book is dedicated to all users of Statistics

PREFACE

This course and workshop book is intended to take statistics from the background of theories to the realm of realities. Also, this little book is to set the plat form towards interdisciplinary Statistics with interest to physical Sciences. This course and workshop is divided into six sections (Chapters): General introduction of Statistical computing and R software; Descriptive and Elementary Statistics (including Probability Distributions); Correlation and Regression Analyses (Ordinary and Robust) including diagnostic testing and comparison of estimates with real observation; and Analysis of Variance (ANOVA); Non parametric statistics (Mann Whitney, Kruskall Wallis, Friedman tests) and Bootstrapping with R. Without doubt this course and workshop book will meet the desires of users of Statistics.

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Quotes

For God so loved the world, that he gave his only begotten Son, that whosoever believeth in him should not perish, but have everlasting life. **John 3:16**

And unto man he said, Behold, the fear of the Lord, that is wisdom; and to depart from evil is understanding. **Job 28:28**

Whatsoever thy hand findeth to do, do it with thy might; for there is no work, nor device, nor knowledge, nor wisdom, in the grave, whither thou goest- **Ecclesiastes 9:10**

Success is what comes after you stop making excuses- **Lius Galarza**

Statistician is someone that plays in everybody backyard

The teaching of Statistics has no value if it is not supported by Statistical computing based on the real data sets- **Arun Kumar Sinha (Professor of Statistics since 1970, India).**

If no one believes in your capability, you believe in your capability and go for the best and do the best- **Adenomon, M. O.**

KEY: Keep Educating Yourself

Do not try but Do it