R is an open source statistical platform widely used in social science research and other research areas. This course will introduce participants to the basics of R. It covers practical issues in data analysis such as reading data into R, exploring and visualizing data, calculating various descriptive and inferential statistics, and writing R functions. The course uses a range of examples to illustrate how R is an ideal platform for the analysis of social and other-type data.

**Course Outline**

- Introduction to R (data types; data import and export etc.)
- Description Statistics and Graphics (mean, median, standard deviation; scatter plots etc.)
- Simple statistical analysis (chi-square test, t-test, correlation, and regression etc.)
- Simulations in statistics (random number generation; checking distribution theory etc.)

**Who Should Attend**

This course is designed for:

- Individuals with some basic statistics background and would like to learn the powerful open source statistical platform R;
- Individuals with no programming background and would like to learn how to program data;
- Individuals who would like to learn other advanced courses such as multilevel modeling and structural equation modeling offered.

**Prerequisites**

Participants are expected to have some basic knowledge in statistics and it would be very helpful if they know some statistical packages such as SPSS, SAS or STATA among others.

**Enquiries**

Contact CFPR at:
Tel: (65) 6601 5387 / 6601 4987
Email: cfpr@nus.edu.sg
Website: www.fas.nus.edu.sg/cfpr
Facebook: https://www.facebook.com/nuscfpr1

For details on schedule, course fee & registration, visit CFPR website.

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**Faculty Member**

Jin-Ting Zhang is an associate professor in the Department of Statistics and Applied Probability at the National University of Singapore, Singapore. He has published extensively and served on the editorial boards of several international statistical journals. He is the author of a recent monograph: Analysis of Variance for Functional Data published by Chapman and Hall, 2014. He is also the coauthor of Nonparametric Regression Methods for Longitudinal Data Analysis: Mixed-Effect Modelling Approaches (2006, Wiley Series in Probability and Statistics) and the co-editor of Advances in Statistics: Proceedings of the Conference in Honor of Professor Zhidong Bai on His 65th Birthday, National University of Singapore, 20 July 2008.

Dr. Zhang joined NUS at the end of 2000 and he has taught a number of modules, including Regression analysis, Generalized linear regression, Nonparametric regression, Categorical data analysis, Computer aided data analysis, Computer intensive data analysis, and Bayesian statistics among others.