

Quantitative Data Analysis II: Multivariate Regression

This 2-day workshop deals specifically with the issues and methods of quantitative research and analysis against the backdrop of social science research more generally. Regression, the most widely used statistical technique, estimates relationships between independent and dependent variables, with the insertion of controls. This workshop introduces participants to OLS regression and logistic regressions (binary and multinomial). It also introduces the use of elaboration models, covering spurious relationships, intervening variables, partial explanations, suppressors and interaction effects. The workshop will combine lectures and hands-on practice in the statistical software package, SPSS.

Faculty Member



Dr. Vincent Chua is an Associate Professor in the Department of Sociology at the National University of Singapore (NUS) and a steering committee member of the Centre for Family and Population Research (CFPR). He got his PhD from the University of Toronto in Sociology in 2010. His research areas are in social networks, education, and ethnic stratification. His work has appeared in publications such as *Social Networks*, *Social Science Research*, *Sociological Perspectives*, *Current Sociology*, *Comparative Sociology*, *American Behavioral Scientist*, *Sociology of Education*, and the *Sage Handbook of Social Network Analysis*. He has taught the graduate level quantitative data analysis course at the Department of Sociology in NUS for several years now. In 2013 and 2017 he won the Faculty Excellence Teaching Award. In 2017, he won the Annual Excellence Teaching Award (University).

Course Outline

- Difference between random controlled experiments and observational studies
- Foundations and simple linear regression
- Multiple linear regression with continuous and categorical outcomes (e.g. OLS regression and Binary & Multinomial logistic regression)
- Transformation of dependent variables that are not normally distributed
- The thinking behind ‘control’ variables and the link to elaboration models
- Elaboration models – Discussion of a) spurious relationship, b) intervening relationship, c) partial explanation, d) suppression effect, and e) interaction effects

Who Should Attend

This course is design for researchers, practitioners including data analysts working in applied environments.

Prerequisites

Participants should have a basic understanding of social statistics--e.g., means, medians and modes, including some familiarity with bivariate modes of data analysis.

Course dates

21 – 22 Jul 2021

Course Fee

COURSE:	B41-07: Quantitative Data Analysis II: Multivariate Regression				
	International Participants	Singapore Citizens		Singapore PRs	Enhanced Training Support for SMEs
39 years old or younger		40 years old or older			
Full Course Fee	\$1,900.00	\$1,900.00	\$1,900.00	\$1,900.00	\$1,900.00
Less: SSG Grant Amount	\$0.00	\$1,330.00	\$1,330.00	\$1,330.00	\$1,330.00
Nett Course Fee	\$1,900.00	\$570.00	\$570.00	\$570.00	\$570.00
7% GST on Nett Course Fee	\$133.00	\$39.90	\$39.90	\$39.90	\$39.90
Total Nett Course Fee Payable, Including GST	\$2,033.00	\$609.90	\$609.90	\$609.90	\$609.90
Less Additional Funding if Eligible Under Various Schemes	\$0.00	\$0.00	\$380.00	\$0.00	\$380.00
Total Nett Course Fee Payable, Including GST, after additional funding from the various funding schemes	\$2,033.00	\$609.90	\$229.90	\$609.90	\$229.90

Important reminders:

1. Courses are held from 9am to 6pm at the Faculty of Arts and Social Sciences, NUS Kent Ridge campus
2. Please note that the courses will proceed, with a minimum enrolment of 10 participants. Participant numbers are strictly capped to ensure quality of delivery and content for participants.
3. Course confirmation will be sent to participants around 3 weeks before the course starts.
4. Should there be any course cancellations, participants will be notified before the course dates.
5. Course registration withdrawals and refunds, if any, are subject to review by CFPR on a case-by-case basis.
6. Participants who receive the training grant are liable to pay back the SSG grant plus the prevailing Goods and Services Tax (GST) if they do not fulfil the minimum attendance of 75%; do not complete the prescribed assessment for the course/s; do not attain a grading of "Competent"; OR there's premature withdrawal from the course/s.
7. A certificate of completion will be given to participants who achieve a minimum of 75% attendance, complete the prescribed assessment, and attain a grading of "Competent" for the respective course/s.

Enquiries

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Facebook: <https://www.facebook.com/nuscfpr1>



For details on schedule, course fee & registration, visit [CFPR website](#)