



## TEACHING FACULTY

### Assoc Prof Tai Bee Choo

*Saw Swee Hock School of Public Health  
Yong Loo Lin School of Medicine  
National University of Singapore*

### Asst Prof Sim Xueling

*Saw Swee Hock School of Public Health  
National University of Singapore*

## ADVANCED QUANTITATIVE METHODS

**29 JANUARY TO 15 MARCH 2018 (MONDAYS & THURSDAYS, 9AM)**

**Lectures end at 12NN and practicals end at 1PM**

*Please refer to the schedule for details*

### WHAT IS THE COURSE ABOUT?

This course is designed to introduce participants to the principles of statistical modelling, and equip them with the basic skills and knowledge needed to apply commonly used statistical models to a variety of clinical outcomes.

Presenting the principles of statistical modelling and statistical analysis using practice-based examples, the course emphasises on the understanding and the application of concepts and methods rather than on mathematical details. The following topics will be covered:

- Multiple Linear Regression
- Multiple Logistic Regression
- Methods for Analyzing Repeated Measures Data
- Analysis of Survival Data using Cox Proportional Hazards Regression

### WHO SHOULD ATTEND?

Applied statisticians, clinicians, public and environmental health professionals, para-medical research professionals, scientists as well as laboratory-based researchers who would like to equip themselves with the skills to critically read, interpret and analyse research data using regression methods.

### PREREQUISITES

Participants should have experience with statistical software, particularly STATA.

### CLOSING DATE:

15 DECEMBER 2017

### COURSE FEES:

\$1,337.50 (INCLUDING GST)

### PAYMENT DUE:

5 JANUARY 2018

### CONTACT:

Ms Gina Goh

[T] (65) 6516 7594

[E] gina\_goh@nus.edu.sg

Mrs Diane Lai

[T] (65) 6516 6914

[E] diane@nus.edu.sg

### REGISTER AT:

<http://tinyurl.com/AQM2018>



**Advanced Quantitative Methods**  
**Course Coordinator: A/Prof Tai Bee Choo**

Date	Day/Time	Topic	Format	Hours
29 Jan 18	Monday			
	9.00 am – 12 noon	Back to Basics	Lecture	3
1 Feb 18	Thursday			
	9.00 am – 12 noon	Summarising Data using STATA Practical 1: Exercise	Practical	3
5 Feb 18	Monday			
	9.00 am – 12 noon	Multiple Linear Regression	Lecture	3
8 Feb 18	Thursday			
	9.00 am – 1 pm	Multiple Linear Regression using STATA Practical II: Exercise	Practical	4
12 Feb 18	Monday			
	9.00 am – 12 noon	Multiple Logistic Regression	Lecture	3
15 Feb 18	Thursday			
	9.00 am – 12 noon	No Lesson (Chinese New Year Eve)		
19 Feb 18	Monday			
	9.00 am – 1 pm	Multiple Logistic Regression using STATA Practical III: Exercise	Practical	4
<b>RECESS WEEK: 24 February – 4 March 2018 (No lesson)</b>				
5 Mar 18	Monday			
	9.00 am – 12 noon	Repeated Measurement Analysis	Lecture	3
8 Mar 18	Thursday			
	9.00 am – 1 pm	Repeated measurement analysis using STATA Practical IV: Exercise	Practical	4
12 Mar 18	Monday			
	9.00 am – 12 noon	Cox's Proportional Hazards Model	Lecture	3
15 Mar 18	Thursday			
	9.00 am – 1 pm	Survival Analysis using STATA Practical V: Exercise	Practical	4

\*Please note that the schedule is subject to change.