

2009 Statistics Enrichment Camp



Date : Monday, 1 June 2009
Time : 9.30am – 4.00pm
Venue : NUS, Faculty of Science
Lecture Theatre 25

**This camp is specially tailored for all
Secondary School and Junior College students.**

Programme

Time	Activity
9.30am	Registration
10.00am	Brief Introduction to Department of Statistics and Applied Probability <i>Dr Lim Tiong Wee</i> <i>Deputy Head, Department of Statistics and Applied Probability</i>
10.15am	Lecture 1. On Conducting a Scientific Investigation <i>Dr Yap Von Bing</i>
11.00am	Tea Provided
11.30am	Lecture 2. Introduction to Principles of Design of Experiments <i>Dr Chan Yiu Man</i>
12.15pm	Lecture 3. Introduction to Sample Survey <i>Associate Professor Chua Tin Chiu</i>
1.00pm	Lunch Provided
2.30pm	Lecture 4. Your Life with Analytics <i>Mr Jason Loh</i>
3.15pm	Lecture 5. Common Mistakes from Past Statistical Poster Entries <i>Associate Professor Chua Tin Chiu</i>
4.00pm	End of Program

Abstracts

Lecture 1. On Conducting a Scientific Investigation *Dr. Yap Von Bing*

This is an elementary discussion of issues that must be considered before collection and analysis of numerical data. For example, What is the question? Will the data answer the question? If not, what should be done? What is the role of previous literature? It will be seen that the more exciting the question is, generally the more work needed to answer it, despite the wide availability of computer-aided data analysis. Some real studies will be presented to illustrate the ideas.

Lecture 2. Introduction to Principles of Design of Experiments *Dr. Chan Yiu Man*

In this talk, you will learn about the three most important statistical principles for the design of experiments: Replication, Randomisation and Blocking. The ignorance of these principles is still the pitfall of many scientific experiments today.

Lecture 3. Introduction to Sample Survey *Associate Professor Chua Tin Chiu*

Data collection is an integrated part of statistical analysis. Survey is such a tool that generates information in a lot of studies. In this talk, several key features in sample survey that would lead to the collection of unbiased and relevant data will be discussed.

Lecture 4. Your Life with Analytics *Mr Jason Loh (SAS Consultant)*

A quick view of how analytics (such as statistics, forecasting, predictive modeling or optimization) impact everyday life in ways you never expected. Statistical techniques and applications can be meaningfully applied to solve business problems and gain deeper insights for better decisions. This presentation will showcase several, short and interesting case studies of analytics in action and a brief abstract of how it works behind the scenes.

Lecture 5. Common Mistakes from Past Statistical Poster Entries *Associate Professor Chua Tin Chiu*

If you are keen to take part in the 2009 Statistics Poster Competition, then you should not miss this talk where we will highlight the common mistakes made in past posters entries.

The Speakers

Dr. Chan Yiu Man

Dr. Chan Yiu Man received his B. A. (Mathematics) from University of Hong Kong and Ph.D. (Statistics) from University of Toronto. His research interest is to apply statistical methods in engineering, business and social sciences problems. He has taught experimental designs to statistics major students and is currently teaches probability and statistics for students in School of Computing.

Associate Professor Chua Tin Chiu

A/P Chua received his Ph.D. from Iowa State University in 1985. His research interest is mainly in the area of survey and sampling. A/P Chua has been very active in providing statistical consulting to government agency and private sector. Every year since 1997 he conducts training course on survey organization and sampling methodology at Singapore Department of Statistics, Ministry of Trade and Industry. He was advisor and research technical advisor to Research Unit of Ministry of Home Affairs and National Parks Board, respectively. Currently, he is advisor to Research and Statistical Unit of Infocomm Development of Singapore.

A/P Chua has a very strong interest in raising the awareness and quality of innumeracy of the public. He has given numerous enrichment talks to various secondary schools and junior colleges in Singapore and Malaysia. He was also sought by the press on the issues related to TOTO and 4-D.

Mr Jason Loh

Jason is a consultant for SAS in the technology practice, focusing in Analytics - with more than 5 years experience of solving critical business problems with analytics for organizations across different verticals including retail, IT, market research, manufacturing, transportation, government & defense.

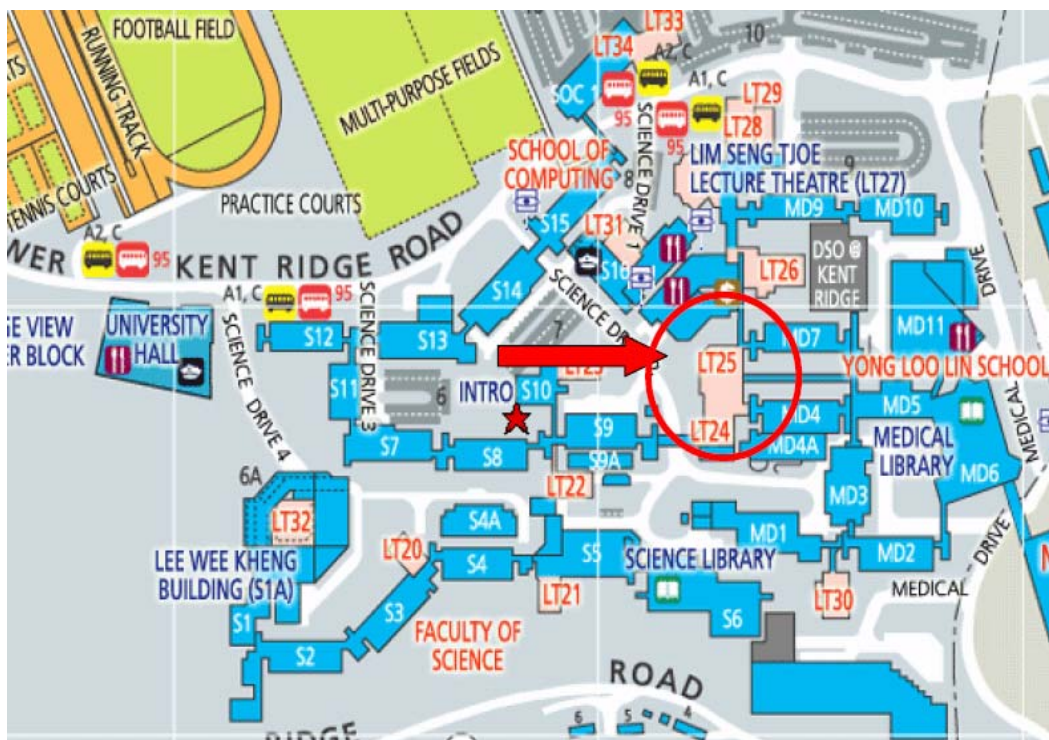
Dr. Yap Von Bing

Dr. Yap Von Bing did his undergraduate study in Mathematics at NUS, got a PhD in Statistics from the University of California at Berkeley in 2002, and joined NUS in 2004. He is interested in applications of statistics in general, especially in Biology. He also has a keen interest in promoting statistics to the public, and to young people in particular.

DIRECTIONS

1. Alight at Buona Vista MRT Station.
2. Transfer to SBS Bus Service 95 or 95C at the bus stop opposite the station, across the North Buona Vista Road (in front of the Ministry of Education building).
3. Alight at the bus stop in front of the Lim Seng Tjoe Lecture Theatre 27 in NUS.
4. Follow the map and walk to Lecture Theatre 25.

For an interactive map of NUS, you may visit <http://www.nus.edu.sg/campusmap/>.



Note:

In view of the heightened alert status of the Influenza A (H1N1), the University has begun temperature screening of visitors to the University. There is currently a screening station located at LT27.

Please refer to www.stat.nus.edu.sg/camp.htm for updates on precautionary measures taken by the University.