A Meeting of Statistical Minds
CDU Casuarina Campus
Building Red 9 - Seminar Room 1.48 (view map)
2pm - 4pm, Thursday 4th April

This seminar is the latest in a series of occasional meetings that brings together statisticians and the statistically minded to discuss advanced statistical methods. The meeting will include three presentations by statisticians and then statistical answers to 3 questions with notice.

Chair: Professor Steven Guthridge

Presentations

1. Dr Yuejen Zhao
Yuejen is the Principal Health Economist with the NT Department of Health. He has over 30 years’ experience in health service management and health economics research, with strong background in patient costing, prevalence estimation, cost-effectiveness analysis and statistical modelling of chronic diseases.

➢ Use of VLAD and CUSUM for quality improvements in hospital care
Variable Life Adjusted Display (VLAD) and cumulative sum control chart (CUSUM) are common instruments for monitoring quality of a service. They are especially useful when the outcome measures are as complex as hospital care, which are influenced by characteristics of both diseases and patients

2. Dr Vincent He
Vincent completed his PhD in statistical methods for survival analysis. He is now working in the CCDE on life-course cohort studies using a large-scale, linked data for children and youth. His current research focus is on child protection and youth justice in the NT.

➢ CACC & LCA: Typological approach to inform children and family service delivery
Typological approaches, such as Latent Class Analysis (LCA) and Conjunctive Analysis of Case Configurations (CACC), have significant potential to provide insights into children’s needs, by identifying groups of children with different experience.

3. Professor Zhiqiang Wang
Zhiqiang is a senior biostatistician. In the 1990’s he worked in Menzies as a statistician before appointment, in 2008, as an Associate Professor in the Faculty of Medicine at the University of Queensland. He has recently returned to Menzies, as the Professor of Statistics

➢ Methodological Issues in Analysing Linked Mortality Data: Obesity and Mortality.
In this presentation, I will discuss several methodological issues in analysing linked mortality data to baseline survey data. I will use several recent publications on obesity and mortality as examples to demonstrate that those issues could potentially alter their conclusions.
Questions with notice

Dr Paul Lawton
➢ How do I estimate risk for an outcome when treatments and covariates vary through time?

Mr Bernard Leckning
➢ What are useful statistical approaches to time-to-event analysis involving rare outcomes?

Professor Gary Robinson
➢ How do I measure the effectiveness of an intervention with no controls?

R.S.V.P and Inquiries:

Menzies Communications unit
T: (08) 8946 8658 | communications@menzies.edu.au | www.menzies.edu.au

Menzies School of Health Research
Menzies School of Health Research is one of Australia’s leading medical research institutes dedicated to improving Indigenous, global and tropical health. Menzies has a history of over 30 years of scientific discovery and public health achievement. Menzies works at the frontline, joining with partners across the Asia-Pacific as well as Indigenous communities across northern and central Australia. Menzies collaborates to create new knowledge, grow local skills and find enduring solutions to problems that matter.

In the spirit of respect, Menzies School of Health Research acknowledges the people and the Elders of the Aboriginal and Torres Strait Islander Nations who are the Traditional Owners