Statistical Research Profile at the University of Western Sydney

ASEARC Conference
December 10 and 11, 2007
An Overview

• SCM staff are involved in national and international collaborations with staff in academia, government and industry - applied, theoretical and a mixture of the two.

• Mathematics and Consulting Unit – Headed by Richard Ollerton
School of Computing and Mathematics

• Consists of (roughly) 12 staff with various levels of interest in statistics

- Eric Beh
- Carmel Coady
- Kevin Donegan
- Andrew Francis
- Neil Hopkins
- Preethi Kottegoda
- Liwan Liyanage-Hansen
- Kenan Matawie
- John MacFarlane
- Richard Ollerton
- Than Pe
- Vithanage Pemajayantha
• Richard Ollerton
  – Diabetes Research Unit, University of Wales College of Medicine, Cardiff, UK
  – Schools of Nursing (UWS) & Curtin Uni of Technology in cardiac nursing, aged care and women’s health
  – School of Medicine (UWS) in disaster relief survey data
  – ARC linkage grant (2008-2010: $125,000)
  – Head of the Schools Consulting Unit
  – Large publication output in national and international peer review journals and conference proceedings in statistics and mathematics
• John MacFarlane

  – “Ongoing Development of the NSW Mass Valuation System” with NSW Valuer General
  
  – Worth $250,000 to UWS
  
  – Overlap of Property and Applied Statistics/Quality Assurance
• **Kevin Donegan**
  - Applications of statistics in the business and science discipline
  - Business applications of categorical data analysis
  - Collab. with Peter Murray (Macq U)

• **Liwan Liyanage**
  - Stochastic processes and women’s health
  - Collab. with Campbelltown City Council
  - “Combining disparate data sources to demonstrate pest/disease status” – a $113,500 grant from ACERA with AusVet, CRCNPB, DAFWA, DAFF & UOW
  - Four HDR’s (2 PhD, 2 Masters) at various stages
• Kenan Matawie
  – Business, accounting, management, economics and actuarial
  – Three PhD students in these areas
  – 2 PhD students – one in operations management and another in health

• Julian Wang
  – Bayesian likelihood and extreme value analysis
  – Collab. with Peter Hall on Bayesian likelihood methods
  – Author of the “Australian Self Storage Almanac” series
• Than Pe
  – Time Series Analysis and Distributional Theory
  – Collab. Shelton Peiris on time series issues

• Andrew Francis
  – Algebraist
  – Development of models for Bayesian computations in genetics
  – Collaborations with Mark Tanaka (UNSW)
• **Eric Beh**
  - A non-Bayesian . . .
  - Categorical data analysis
  - Correspondence analysis, log-linear models, measures of association, statistical computing
  - Collab. with University of Naples, & Sannio, Italy
  - Collab. University of California (Davis)