



Talk sessions at the 22nd Research Students' **RSC99** Conference in Probability and Statistics

Final version (17/03/99)

Monday 22nd March

Session 1: JCR

Chair: Mr Miles Harkness

17:30pm	Mr Stuart Barber	Optimal group sequential tests
17:50pm	Mr Dave Sheridan	Percolation on transitive graphs
18:10pm	Mr Cathal Walsh	Bayesian Modelling of Crack Coalescence in Steel

Tuesday 23rd March

Session 2a: JCR

Chair: Mr Cathal Walsh

09:30am	Mr Dave Allcroft	Fast estimators for thresholded ARMA processes
09:50am	Miss Rakhi Baj	Bayesian prediction of latent growth models in on line monitoring of cheese manufacture
10:10am	Mr Martyn Byng	Locating Regulatory Regions in Genomic DNA
10:30am	Ms Joe Chapman	A Score Test for Frailty in Univariate Survival Analysis

Session 2b: Wills Reception Room

Chair: Mr Bob Welham

09:30	Mr Robert Deardon	The Use of Airborne Dispersal Simulations To Design Experiments Which Minimise Interplot Interference
09:50	Miss Christina Bamias	Accounting for Treatment Changes in Clinical Trials: An Example on the Analysis of a Clinical Trial in the Presence of Rescue Medication
10:10am	Mr Martin Day	Spatial Evolutionary Game Theory
10:30am	Mr Dimitris Fouskakis	Stochastic Optimisation Methods for Cost-Effective Quality Assessment in Health

Session 2c: Drawing/Music Rooms

Chair: Mr Alejandro Aldama-Ojeda

09:30am	Ms Rebeca Aguirre-Hernandez	A Goodness of Fit Test for the Continuous Time-Homogeneous Markov Model with Covariates
09:50am	Mr Miles Harkness	Using reversible jumps in object recognition
10:10am	Miss Suzan Gazioglu	Sensitivity Analysis applied to Compartmental Modelling (with Environmental Applications)
10:30am	--	--

Session 3a: JCR

Chair: Miss Sophie Gilchrist

11:10am	Mr Phazamile M. Kgosi	New Results in Parameter Redundancy
11:30am	Mr Kai-Ming Chang	Bayesian Regression with Many Variables
11:50am	Miss Kate Duckworth	An Investment model with entry and exit decisions
12:10pm	--	--

Session 3b: Wills Reception Room

Chair: Mr Stuart Barber

11:10am	Mr Trevor Mole	Bootstrapping in 2-level Models
11:30am	Mr Collin Lewis	Efficient Designs for Two-sided Neighbour Designs
11:50am	Mr Alex Bottle	Standardisation vs regression in small area analyses
12:10pm	Mr Mark Pilling	Models of Plant/Animal Interactions

Session 3c: Drawing/Music Rooms

Chair: Mr Nigel Lewis

11:10am	Mr David Robinson	Statistical shape analysis in dentistry
11:30am	Ms Denise Drinkwater	Fitting Tweedie Models to Data with Probability of Zero Responses
11:50am	Miss Catherine Beckett	Tree Based Analysis of Case Control Studies
12:10pm	Mr Nial Friel	A Short Talk on Set-valued Regression

Session 4a: JCR

Chair: Mr Graeme Ambler

14:00pm	Mr Phil Corbett	Risk Scores – an approach for small sample sizes
14:20pm	Miss Suhasini SubbaRao Tata	The Application of Wavelets in the Estimation of Deformation Functions
14:40pm	Miss Sofia Dias	Predictive Probability that $X_1 < X_2$ – the problem and its applications
15:00pm	Mr Alex Morton	Spectral Analysis for Irregularly Sampled Time Series

Session 4b: Wills Reception Room

Chair: Ms Yanan Fan

14:00pm	Mr Ahmed Gad	The Stochastic EM and Sensitivity Analysis for Nonrandom Dropout Models
14:20pm	Mr Alberto Ferreira Poblete	MCMC application to multilevel logistic regression
14:40pm	Miss Jenny Griffiths	Clinical Reference Ranges: How reliably are they constructed?
15:00pm	Mr Ralph Mansson	Robustness of Balanced Incomplete Block Designs to Missing Observations

Session 4c: Drawing/Music Rooms

Chair: Mr John Kornak

14:00pm	Mr John McClure	Uncertainty and Sensitivity Analysis in Atmospheric Dispersion Models
14:20pm	Mr Alfred Kume	Statistical Shape Analysis in the Case of Triangles
14:40pm	Mr Paul Bell	Statistical Inference for Multidimensional Scaling
15:00pm	Paulo J. Ribeiro Jr.	Univariate linear spatial models

Session 5a: JCR

Chair: Miss Suhasini SubbaRao Tata

15:40pm	Miss Victoria Cornelius	Estimation of Leukaemia Risks for Wales
16:00pm	Mr George Streftaris	Simultaneous estimation of several Poisson means
16:20pm	Mr Alastair Richard Duncombe	A Bayesian Analysis of Longitudinal Data With Nonrandom Dropout
16:40pm	--	--

Session 5b: Wills Reception Room

Chair: Ms Suja Aboukhamseen

15:40pm	Mr Mark Ray	Development of Open Statistics Software
16:00pm	Mr Saumendranath Mandal	Construction of Optimizing Distributions for Constrained Criteria
16:20pm	Mr Soren Fiig Jarner	Geometric ergodicity of Metropolis algorithms
16:40pm	Mr Gavin Harper	Selecting Compounds for Screening in Pharmaceutical Research

Session 5c: Drawing/Music Rooms

Chair: Mrs Jane Warwick

15:40pm	Mr John Kornak	Functional Imaging and Brain Activity
16:00pm	Mr Michail Papathomas	Modelling expert posterior assessments for binary random variables
16:20pm	Mr Andy Lynch	Covariate Models for Size Distributions
16:40pm	Mr Mitchum Bock	Smooth Inference: Comparisons among nonparametric models

Poster Session 1

Mr Luke Dugdale	Introduction to Spatio-Temporal Modelling Applied to Sonar
Mr Ismail Gun	Penalised models for abundant multinomials
Miss Catherine Jameson	Logistic regression modelling of the age difference between sexual partners
Mr Vasileios Nikolaou	Repeated measures models for binary data

Wednesday 24th March

Session 6a: JCR

Chair: Mr Idris Eckley

09:30am	Miss Eleni Tsolaki	Nonstationary Time Series methods for the analysis of climate variables
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09:50am	Mr John Pueschel	Application of Bayesian Hierarchical Models to DNA Profile Data
10:10am	Mr Gabriel Escarela	Competing Risks, Persistence and Desistance in Crime
10:30am	Mr David Herrick	Density Estimation using Wavelets

Session 6b: Wills Reception Room

Chair: Mr Gareth James

09:30am	Mr Bob Welham	Annual Routines for State-structured Populations
09:50am	Mrs Jane Warwick	Minimum Distance Estimation
10:10am	Mr Matt Jenkin	MCMC Techniques Applied To The Inverse RBS Problem
10:30am	--	--

Session 6c: Drawing/Music Rooms

Chair: Miss Victoria Cornelius

09:30am	Ms Silvia Shimakura	North West Leukaemia data: spatial incidence analysis
09:50am	Miss Barbara Lee	Statistical analysis of in-vivo brain tumour MRS data
10:10am	Ms Alexandra Schmidt	Bayesian Spatial Interpolation of Pollution Monitoring Stations
10:30am	Mr Jonathan Mounsey	Youth Unemployment, Reservation Wages and the YTS Scheme

Session 7a: JCR

Chair: Mr Tom Winch

11:10am	Ms Yanan Fan	Bayesian modelling of prehistoric corbelled tombs
11:30am	Miss Karla Hemming	Bayesian Survival four Double Interval Censored AIDS data
11:50am	Mr Ernest Fokoue	Mean Field Methods for Gaussian Process Classifier
12:10pm	Miss Anna Marshall	Spatial Clustering in matched case-control studies

Session 7b: Wills Reception Room

Chair: Mr Gavin Harper

11:10am	Mr Nigel Lewis	Surrogate Endpoints in Clinical Trials
11:30am	Ms Delil Gomez Portugal Aguilar	Bayesian Modelling of the Radiocarbon Calibration Curve
11:50am	Ms Maria Stepanova	Using survival analysis to build credit scoring models

12:10pm Mr Rob Foxall Statistical Modelling of Neural Networks

Session 7c: Drawing/Music Rooms

Chair: Mr Saumendranath Mandal

11:10am Mr Moon Fai Chan The trajectories of the arm movements: an experimentally confirmed statistical model

11:30am Miss Jen Marsh Measurement error in longitudinal film badge data

11:50am Mr Mark Grigsby Bayesian Inference for Log-Linear Models

12:10pm Miss Helen Wong An alternative model dealing with censored survival data

Session 8a: JCR

Chair: Mr Rob Foxall

14:00pm Mr Jeremy Oakley Bayesian Inference for the Uncertainty Distribution

14:20pm Miss Raquel Montes Diez A Bayesian Approach to Screening Procedures with Multidecision Alternatives

14:40pm Mr Gareth James Transformations, Regression and Errors-in-Variables

15:00pm Mr David Kinns Characterizing Multiple Case Effects in Linear Regression

Session 8b: Wills Reception Room

Chair: Mr Ricardo Ehlers

14:00pm Mr Colin Naismith An Alternative Approach to Diagnosing Canine Mast Cell Tumours

14:20pm Mr Simon Shaw Simplifying Complex Designs: Bayes Linear Experimental Design for Grouped Multivariate Exchangeable Systems

14:40pm Mr Matt Whiley Model Identifiability in Bayesian Networks

15:00pm Mr Dyfrig Williams A Bayes linear analysis of Hierarchical linear models with applications to educational data

Session 8c: Drawing/Music Rooms

Chair: Mr Alexander Holroyd

14:00pm Mr Ralf Herbrich Regression Models for Ordinal Data: A Machine Learning Approach

14:20pm Mr Peter Neal Epidemics with two levels of mixing

14:40pm	Mr Richard Nixon	Random effects models for the analysis of cluster randomised trials
15:00pm	Ms Karen Williams	Effect of Prediction Rule and Parameter Values on Patient Specific Risk Estimates in Down Syndrome Screening

Session 9: JCR

Chair: Mr David Herrick

15:40pm	Mr Paul Lambert	Hierarchical Random Effects Models with Individuals Within Families
16:00pm	Mr Tom Winch	Ion Channel Modelling: And Embedded Markov Chain and its Time Reversal
16:20pm	Miss Maria Xiridou	Stochastic Models for Epidemics
16:40pm	Ms Suja Aboukhamseen	Residuals

Poster Session 2

Miss Sophie Gilchrist	The errors-in-variables problem in logistic regression
Mr Hong-Chih Huang	Stochastic Pension Fund Modelling
Mr Malcolm Morrissey	Comparison of Parameter Estimators for the NBD Distribution
Mr Md. Shah Jalal Sarker	Multiple Imputation Compared to Other Missing-Data Methods in the Analysis of CCIMT-Data from the Rotterdam Study
