



Provisional Presentation Timetables for the Research Students' Conference in Probability and Statistics 2000

Talk Timetable

Parallel talk venues:

Division A talks will take place in the main room of the conference centre.

Division B talks will take place in the exhibition room of the conference centre.

Division C talks will take place in Birchwood House.

Plenary session 1 talks will take place in the main room of the conference centre.

Tuesday, 11 April 2000

SESSION 1

Chair: Sophie Gilchrist

1 17:45 – 18:05 Richard Nixon *Cross Issue Synthesis: Application to Breast Cancer, Tamoxifen and Genetic Susceptibility*

2 18:05 – 18:25 Kate Duckworth *An Investment Model with Switching Costs*

Wednesday, 12 April 2000

SESSION 2

Division A:

Chair: Bhekisipho Twala

1 09:30 – 09:50 John Gay *Multivariate Survival Analysis with Frailties*

2 09:50 – 10:10 Fotios Siannis *Model for Informative Censoring*

3 10:10 – 10:30 Jeremy Bradley *Bayesian Hazard Estimation*

4 10:30 – 10:50 Luis E. Nieto-Barajas *Markov Beta Process for Modelling Hazard Rates*

Division B:

Chair: Julie Amer

1 09:30 – 09:50 Gilly Allcock *The Design and Analysis of Enzyme Kinetic Studies*

2 09:50 – 10:10 David Warn *Methods for Investigating the Relationship Between Treatment Benefit and Underlying Risk in Meta-Analysis of Clinical Trials*

3 10:10 – 10:30 Clare Crinion *Analysis of Preference Data in the CAO Database Mining Techniques*

4 10:30 – 10:50 Shah Jahal Sarker *A Modified Score Test for Frailty Based on the PSW Model*

Division C:

Chair: Victoria Cornelius

1 09:30 – 09:50 Anna Marshall *Case-Control Study of Childhood Diabetes*

2 09:50 – 10:10 Alexandra Schmidt *Bayesian Inference for Nonstationary Spatial Structure via Spatial Deformations*

3 10:10 – 10:30 Aldo Lamberti *The Variogram in Spatial Statistics*

4 10:30 – 10:50 Peter Neal *Spatial Epidemics with Two Levels of Mixing*

SESSION 3

Division A:

Chair: Ruth King

1 11:15 – 11:35 Samer Kharroubi *Application of Higher-Order Approximations in Bayesian Inference*

2 11:40 – 12:00 Thomas Chadwick *A General Bayes Theory of Nested Model Comparisons*

3 12:05 – 12:25 Kai-Ming Chang *Bayesian Regression with Many Variables*

Division B:

Chair: Victoria Cornelius

1 11:15 – 11:35 Jen Marsh *Measurement Error in Longitudinal Film Badge Data*

2 11:40 – 12:00 Gareth James *Transformation of a Normal Distribution*

3 12:05 – 12:25 Sophie Gilchrist *Misclassification of Categorical Variables in Logistic Regression*

Division C:

Chair: MJ Ray

1 11:15 – 11:35 Natalia Schofield *Bayesian Wavelet Regression: Thresholding and Regularity Properties*

2 11:40 – 12:00 Idris Eckley *A Wavelet-Based Approach of Modelling Textured Images*

3 12:05 – 12:25 Carl Scarrott *Multi-Taper Spectral Analysis*

SESSION 4

Division A:

Chair: Kandala Ngainga-Bakwin

1 14:00 – 14:20 Alejandro Aldama *Sampling Strategies in Contaminated Land Studies*

2 14:25 – 14:45 Agus Salim *Practical Problems Arising in the Optimal Sampling Designs for Two-Stage Studies*

3 14:50 – 15:10 Ruth King *Bayesian Estimation of Population Sizes from Incomplete Census Data*

Division B:

Chair: Idris Eckley

- 1 14:00 – 14:20 Andrew Simpson *Multivariate DLMS for Forecasting Financial Time Series with Application to the Management of Portfolios*
- 2 14:25 – 14:45 Kostas Triantafyllopoulos *Multivariate Dynamic Linear Modelling – Variance Learning*
- 3 14:50 – 15:10 Saurav Sen *Feedback Effects in Financial Modelling*

Division C:

Chair: Anja Sturm

- 1 14:00 – 14:20 Martin Day *Spatial Evolutionary Games*
- 2 14:25 – 14:45 Christopher Kirkbride *The Allocation of Jobs in a Diversified Service System*
- 3 14:50 – 15:10 MJ Ray *Virtual Population Analysis*

SESSION 5:

Division A:

Chair: Peter Neal

- 1 15:35 – 15:55 Victor Mergel *Tests for Goodness of Fit Based on Some Consistent Estimators of Entropy Probabilistic Distributions*
- 2 16:00 – 16:20 David Draper and Mark Gittoes *Performance Indicators in UK Higher Education*
- 3 16:25 – 16:45 Yuriy V Krvavych *Arbitrage Opportunities on (B.S)–Market Defined by Fractional Brownian Motions*

Division B:

Chair: Chris Kirkbride

- 1 15:35 – 15:55 Fahima Al–Alwadhi *Statistical Image Analysis and Confocal Microscopy*
- 2 16:00 – 16:20 Ismail Gun *Generalised Models for Abundant Multinomials*
- 3 16:25 – 16:45 Silvia Maria de Freitas *Modelling Overdispersion in a Bioassay of Entomopathogenic Fungus*

Division C:

Chair: Ernest Fokoue

- 1 15:35 – 15:55 Dave Sheridan *Steins Method in Application to Percolation*
- 2 16:00 – 16:20 Anja Sturm *The Coalescent of a Specified Sample from a Population with Mutating Types*
- 3 16:25 – 16:45 Luke Dugdale *Estimation and Detection of Signals in the Presence of Non–Stationary and Non–Linear Noise*

Thursday, 13 April 2000

SESSION 6

Division A:

Chair: Jen Marsh

- 1 09:30 – 09:50 Catherine Beckett *Tree Based Analysis of matched Case Control Studies*
- 2 09:50 – 10:10 Bhekisipho Twala *Learning Incomplete Examples Using Decision Trees*
- 3 10:10 – 10:30 Sofia Dias *Predictive Comparisons*
- 4 10:30 – 10:50 Angela Dobson *Joint Modelling Longitudinal and Survival Data*

Division B:

Chair: Natalia Schofield

- 1 09:30 – 09:50 Lefteris Kaskavelis *Adjusting the Chi–Square Limits for a Multivariate Autocorrelated Process*
- 2 09:50 – 10:10 Polly Martin *Use of Mixture Experiments in Formulation Development*
- 3 10:10 – 10:30 Naratip Jansakul *Score Tests for Zero–Inflated Poisson Models*
- 4 10:30 – 10:50 Julie Amer *Survival Methods with Missing Data*

Division C:

Chair: Gareth James

- 1 09:30 – 09:50 Chris Jackson *Semi–Parametric Modelling of a Disease Marker*
- 2 09:50 – 10:10 Alex Bottle *Estimating Hospital Catchment Areas*
- 3 10:10 – 10:30 Victoria Cornelius *A Study to Evaluate the Power of Cluster Detection Algorithms in a Variety of Realistic Geographical Situations*
- 4 10:30 – 10:50 Jonathan Marchini *Detecting Significant Activation in Functional MRI Experiments*

SESSION 7

Division A:

Chair: Christina Yap

- 1 11:15 – 11:35 Ricardo Ehlers *Order Uncertainty in ARMA Models*
- 2 11:40 – 12:00 Alex Morton *The Bias of the AR(1) Parameter for Irregularly Sampled Time Intervals*
- 3 12:05 – 12:25 Carl Sullivan *Deletion Diagnostics and the Kalman Filter*

Division B:

Chair: Gareth James

- 1 11:15 – 11:35 Andrew Lynch *The Size–Weight Relationship for Small Red Fruit*
- 2 11:40 – 12:00 Stephen Yeung *Efficient Parameterisations of Multi–Level Models*
- 3 12:05 – 12:25 Haritz Olaeta *Pharmacokinetic Models*

Division C:

Chair: Dave Sheridan

- 1 11:15 – 11:35 Jonathan Mounsey *A Revaluation of the YTS Treatment Effect Using a Matched Dataset*
- 2 11:40 – 12:00 Yanan Fan *Perfect Simulation via Simulated Tampering*
- 3 12:05 – 12:25 Luisa Scaccia *Testing Axial Symmetry and Separability in Spatial Processes*

SESSION 8

Division A:

Chair: Victor Mergel

- 1 14:00 – 14:20 Niko Marttinen *Predicting Results in Football*

2 14:25 – 14:45 Ernest Fokoue *Exploration of the Mixture of Factor Analysers Model*

3 14:50 – 15:10 Ivelina Gueorguieva *PBPK Models with Fuzzy Parameters*

Division B:

Chair: Nikolaos Demiris

1 14:00 – 14:20 Suja Aboukhamseen *Calibration Methods for Multidimensional Data*

2 14:25 – 14:45 Delil Gomez Portugal Aguilar *Bayesian Modelling of the Radiocarbon Calibration Curve*

3 14:50 – 15:10 Omiros Papaspiliopoulos *Bayesian Inference Using MCMC for Diffusion Models Where the Volatility is a Shot-Noise Stochastic Process*

Division C:

Chair: Yuriy Kravych

1 14:00 – 14:20 Mohammed Taghi Shakeri *Time Series Analysis of Postorography Traces*

2 14:25 – 14:45 Suhasinin Subba Rao Tata *DIY Wavelets: Methods to Construct Data-Dependent Wavelet Filters*

Poster Timetable

Wednesday, 12 April 2000

POSTER SESSION 1

Paula Curnow *Coalescent Timescaling and Fission-Fusion Population Models*

Ngainga-Bakwin Kandala *Infants' Undernutrition Differentials in Developing Countries*

Dulce Maria Mesa *Imputation for Census Data*

George Nicholson *Microsatellite-Based Demographic Inference*

Felix L. Seijas Rodriguez *Small Area Estimation from the Venezuelan Labour Force Survey*

Patricia Klarmann Ziegelmann *Bayesian Approach in Pharmacokinetics Models*

Flavio Augusto Ziegelmann *Nonparametric Estimation of Volatility functions: The Local Logistical Estimator*

Thursday, 13 April 2000

POSTER SESSION 2

Anton Altmann *Booking Rates in Football Matches*

Kim Emil Andersen *Solving Ill-Posed Inverse Problems by MCMC Methods*

Martyn Byng *Locating Gene Regulatory Regions Using Reversible Jump MCMC*

David Harrison *Models for Progression of Breast Cancer by Parenchymal Pattern*

David Jones *Statistics in Magnetic Resonance Imaging*

Alexandra Ramos *Regular Score Statistics Tests of Independence in Bivariate Extreme Values*

Flavia Sauli *Bayesian Networks in Time Series Analysis*

Amy Tang *Stroke Epidemiology Risk Factors in Chinese*

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