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CONFERENCE TIMETABLE

Monday 30th March

3:00-6:00 Conference registration, Hugh Stewart entrance hall.

6:30 Dinner

7:20 Trip to cinema

7:30 Bar open

Tuesday 31st March

8:00-8:30 Breakfast

Single Session

9:00-9:05 Welcome. Dr. Stuart Coles.

9:05-9:30 Ian Tame (Nottingham)
Stochastic modelling of multiple ion channels.

9:30-9:55 Iain Weir (Bristol)
Some aspects of Bayesian reconstructions in SPECT.

9:55-10:20 Jon Barry (Lancaster)
Making underwater reefs that are suitable for lobsters.

10:20-10:45 Martin Baxter (Cambridge)
The unbearable simpleness of chains.

10:45-11:10 Coffee

11:10-11:35 Graeme Archer (Glasgow)
Simultaneous Bayesian image restoration and parameter estimation.

11:35-12:00 David Phillips (Imperial)
Bayesian modelling and inference for images.

12:00-12:25 Merrilee Hurn (Bath)
Simulated annealing - can cascade help?

12:25-12:50 Guy Nason (Bath)
Discriminatory projection pursuit.

1:00 Lunch

Session A

2:00-2:25 David Buckle (Imperial)
Basic portfolio theory.

2:25-2:50 David Hobson (Cambridge)
Brownian motion and finance.

2:50-3:15 Christopher Shortland (Cambridge)
Diffusions and stochastic ordering.

3:15-3:40 Bruce Dunham (Royal Holloway and Bedford)
Fluctuation theory for Markov chains.

15th Research Students' Conference in Probability and Statistics

Monday 30th March - Thursday 2nd April 1992

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Session A

- 2:00-2:25 Andrés Christen (Nottingham)
Applications of the Gibbs sampler to archaeological research.
- 2:25-2:50 Luís Milan (Lancaster)
Gibbs sampling for the Goodman's RC association model.
- 2:50-3:15 Neil Gordon (Imperial)
Implementation of non-Gaussian Bayesian bootstrap filters.
- 3:15-3:40 Alpore Moraes (Sheffield)
Assessment of influence by predictive probabilities.
- 2:00-2:25 Suzanne Powell (Birmingham)
Inferring an actual size distribution from an observed distribution.
- 2:25-2:50 Louise Taylor (Cardiff)
Likelihood related estimation methods.
- 2:50-3:15 Kath Bennett (Southampton)
Smoothing in predicting population totals.
- 3:15-3:40 Vijay Bhuchar (UCL)
Profile likelihood and its curiosities.
- 3:40-4:10 Tea
- 4:10-4:35 Mark Broom (Sheffield)
Adding and splitting methods in patterns of evolutionary stable strategies.
- 4:35-5:00 David Ramsey (Bristol)
Effects of environment on ESS search strategies.
- 5:00-5:25 John Whitaker (Sheffield)
Evolutionary stability in iterated contexts.
- 5:25-5:50 Crispin Allard (Warwick)
Actions, information and graphs.

Session B

- 4:10-4:35 David Wright (QMUL)
Statistical irregularities in the human genome.
- 4:35-5:00 Jenny Barrett (Sheffield)
Genomic mapping by ordering clones.
- 5:00-5:25 Dirley Moreira dos Santos (Lancaster)
Statistical models for breast cancer data.
- 5:25-5:50 Andrew Holmes (Glasgow)
Statistical issues in functional mapping of the brain.

7:00-9:00 Conference Dinner

8:30-11:00 Bar open

9:30 Bar quiz

Thursday 2nd April

- 8:00-8:30 Breakfast
- 9:00-9:25 Saraleesan Nadarajah (Sheffield)
Penultimate approximations involving bivariate extremes.
- 9:25-9:50 Ben Gordon (Sheffield)
Detection and display of multivariate outliers.
- 9:50-10:15 Neil Spencer (Lancaster)
Estimating school effectiveness with a multi-level model.
- 10:15-10:40 Sulaiman Khatrik (Strathclyde)
Modelling participation in school.
- 10:40-11:10 Coffee
- 11:10-11:35 Ross Curds (UCL)
Symbolic propagation in a probabilistic expert system using dialogue APL.
- 11:35-12:00 Richard Saldanha (Oxford)
Discriminant analysis and its application in probabilistic expert systems.
- 12:00-12:25 Kasia Stepniewska
Development of an expert system for aiding the ultrasonic diagnosis of solid breast masses.
- 12:25-12:50 James O'Geran
Random search and existence.
- 1:00 Lunch
- 1:00 Depart

Single session and Session A talks will be held in room C4 of the Maths Department. Session B talks will be in room C5 of the Maths Department. Tea and Coffee will be served on the first floor balcony. Abstracts will be displayed on the first floor balcony.

Rooms should be vacated by 9:30am and keys returned to reception. Luggage may be left in the Seminar Room of Hugh Stewart Hall. The Hugh Stewart bar will be open for half an hour before dinner each evening.

Next year's conference will be held at Lancaster University from Friday 26th March to Monday 29th March.

Session B

2:00-2:25	Teresa Smith (Cambridge) <i>Estimation of time of exposure to cervical cancer, using smear and biopsy histories.</i>
2:25-2:50	Anna Symonds (London School of Hygiene and Tropical Medicine) <i>Repeated CEA measures as a predictor for recurrent colorectal cancer.</i>
2:50-3:15	Cariona Hayes (Glasgow) <i>Prediction of surgical risk.</i>
3:15-3:40	Douglas Watt (Glasgow) <i>Non-parametric modelling of medical data.</i>
3:40-4:10	Tea
Session A	
4:10-4:35	Phil O'Neill (Nottingham) <i>The joy of coupling.</i>
4:35-5:00	Damian Clancy (Nottingham) <i>The quick brown fox dies of rabies.</i>
5:00-5:25	Roland Tegeeder (Cambridge) <i>Oscillatory coding in the brain.</i>
5:25-5:50	Lindsey Foreman (Imperial) <i>Hidden Markov modelling in speech recognition.</i>
Session B	
4:10-4:35	Afrozuddin Ahmed (Exeter) <i>A simulation study of estimation.</i>
4:35-5:00	Stuart Young (Glasgow) <i>Graphical methods in nonparametric regression.</i>
5:00-5:25	Eleanor Emberson (St. Andrew's) <i>Bartlett adjustment in mis-specified models.</i>
5:25-5:50	Adam Crisp (UCL) <i>Uncertainty and robust regression.</i>
6:00	Dinner
7:00-9:00	Meet the sponsors, Hugh Stewart JCR
8:00-11:00	Bar open

Wednesday 1st April

8:00-8:30	Breakfast
Session A	
9:00-9:25	Theofanis Sapatinas <i>Characterization of some well known discrete distributions based on variants of the Rao-Rubin condition.</i>
9:25-9:50	Bekia Fosam (Sheffield) <i>Characterisations related to mathematical theory of reliability.</i>
9:50-10:15	Alfred Akinsete (Sheffield) <i>Tandem queues in parallel with optional diagonal advancement and withdrawals.</i>
10:15-10:40	Eliane Rodrigues (QMW) <i>On self-organising schemes with dependent requests.</i>
Session B	
9:00-9:25	Paul Nelson (Goldsmiths') <i>Minimising the effects of known environmental gradients in one-dimensional experiments.</i>
9:25-9:50	Antonio Ponce de Leon (LSE) <i>Designing experiments to discriminate between two rival generalised linear models.</i>
9:50-10:15	Lorraine Low (Southampton) <i>Crossover designs subject to dropout.</i>
10:15-10:40	Paula Yates (Southampton) <i>Row-column designs for estimating dual vs. single treatment comparisons with one treatment disallowed.</i>
10:40-11:10	Coffee
Session A	
11:10-11:35	Eileen Wright (Glasgow) <i>Some simple graphics and inference for survival data.</i>
11:35-12:00	Penelope Younaton (Imperial) <i>Bayesian model comparison using simulation and graphics.</i>
12:00-12:25	Ian White (UCL) <i>Use of graphical models to detect sensitivity to measurement errors.</i>
12:25-12:50	Mark Brewer (Edinburgh) <i>Stochastic simulation in mixed graphical association models.</i>
Session B	
11:10-11:35	Xu Shilin (Reading) <i>Analysis of interval-censored survival data.</i>
11:35-12:00	John Haywood (Lancaster) <i>State space time series models for trend, cycles and seasonality.</i>
12:00-12:25	Adão Hengges (Sheffield) <i>Predictive distributions with missing values in the explanatory variables.</i>
12:25-12:50	Jorge Ojguin (UCL) <i>Analysing unreplicated factorials.</i>
1:00	Lunch

List of Participants

Name	Research Interest	Year	Talk				
Bath Merrilee Hurm Guy Nason	Image Analysis Multivariate Analysis	3 3	Yes Yes				
Birmingham Gary Brown	Regression Diagnostics Using Local and Deletion Influence	1	No				
Suzanne Powell	Reliability of British Gas Pressure Vessels	2	Yes				
Bristol Paul Greenfield Nor Aishah Hamzah David Ramsey Iain Weir	Image Analysis Robust Regression ESS, Genetic Algorithms Bayesian Image Analysis	1 1 2 2 3	Yes No Yes Yes Yes				
Cambridge Martin Baxter Mathias Chiano Simon Harris David Hobson Owen Jones Christopher Shortland Teresa Smith	Probability Theory Analysis of Human Genetic Linkage Probability Brownian Motion and Diffusions Diffusion on Fractals Boundary Hitting of Diffusions The Timing of Elective Interventions in Chronic Diseases	2 1 1 3 2 3 1	Yes No No Yes No Yes Yes				
Roland Tegeder	Mathematical Biology	2	Yes				
Cardiff Janine Bishop Stavroula Consta Louise Traylor	Reference Ranges Medical Statistics Likelihood-Based Methods in Non-Regular Estimation	1 2 2	No No Yes				
Masoud Yamohammadi	Time Series Analysis of Electroencephalography	3	No				
City University James O'Geran	Searching and screening	3	Yes				
Edinburgh Mark Brewer James Shaw	Stochastic Simulation Seed Identification	3 1	Yes No				
Exeter Afrozuddin Ahmed Anwer Khurshid	Statistical Models with Random Effects and Distributed Parameters Small Sample Estimation from Quantal Data	3 -	Yes No				
				Glasgow Graeme Archer Cairiona Hayes Andrew Holmes	Image Analysis Surgical Audit Statistical Problems in Positron Emission Tomography	2 1 1	Yes Yes Yes
				Douglas Watt Eileen Wright Stuart Young	Medical Statistics Survival Analysis Semiparametric Non-Linear Regression	3 1 2	Yes Yes Yes
				Goldsmiths' College Paul Nelson	Design of Experiments	3	Yes
				Hertiot-Watt Thomas Connolly Brian Moretta	Agricultural Trials Loss Networks	3 2	No No
				Imperial College David Buckle Lindsey Foreman Neil Gordon Eduardo Gutiérrez-Peña Emma McCoy David Phillips Penelope Vounatou	Optimal Portfolio Theory Bayesian Analysis of Hidden Markov Models Applied Bayesian Statistics Bayesian Inference Time Series Bayesian Modelling in Image Processing Bayesian Inference	2 2 3 1 1 2 2	Yes Yes Yes No No Yes Yes
				Keele Ross Bateman Alison Pryce	Time Series Modelling of Financial Data Time Series	1 -	No No
				Lancaster Jon Barry John Haywood Luis Milan Dirley Moreira dos Santos Sara Morris	Spatial Statistics Multivariate Time Series and Latent Structure Goodman's RC Model Medical Statistics	2 2 3 2	Yes Yes Yes Yes
				Neil Spencer	Spatial Point Patterns / Environmental Epidemiology Longitudinal Multi-Level Models in Educational Research	1 1	No Yes
				London School of Economics Antonio Ponce de Leon	Optimal Design of Experiments	4	Yes
				London School of Hygiene and Tropical Medicine Anna Symonds	Serial Carcinoembryonic Antigen Assay in Recurrent Colorectal Cancer	1	Yes

Newcastle	Gillian Deans Simon Greatrix David Laws	Design and Analysis of Taste Panel Experiments A Forward Induction Approach to Sequential Decision Processes Bayes Theoretic Approach to the Optimal Design of Screens	2 1 1	No No No	Southampton Kath Bennett Lorraine Low Paula Yates	Smoothing in Prediction Design of Experiments Experimental Design	2 2 2	Yes Yes Yes
North Wales	Ann Smith	Epidemiology	2	No	St. Andrews Eleanor Emberson Donna Fitzgibbon Paul Hutchison	Parametric Statistical Inference Mark-Recapture Models Statistics of Air Pollution	3 1 1	Yes No No
Nottingham	Andrés Christen Damian Clancy Phil O'Neill Ian Tame	Applied Bayesian Statistics Stochastic Epidemic Models Stochastic Epidemic Models Stochastic Modelling of Multiple Ion Channels	2 2 3 2	Yes Yes Yes Yes	Strathclyde Gordon Hay Sulaman Khattak	Simulation of HIV spread among IV drug users Analysis of School Leavers	1 3	No Yes
Oxford	Joanne Dicks Richard Saldanha	Applications of Statistics in Genetic Research Graph Theoretic Methods in Discrimination and Classification	1 1	No Yes	Sussex James Browne	Search Models : Optimal Control and Estimation	1	No
Queen Mary and Westfield College	Eliane Rodrigues David Wright	----- Medical Statistics	3 2	Yes Yes	Trinity College Dublin Kevin Hayes	Diagnostics	-	No
Reading	Dominic Neary Marina Sooriyachchi Kasia Stepniowska Susan Todd Xu Shilin	Ordinal Categorical Data from Cross Over Trials Image Analysis in Sequential Clinical Trials Discrimination and Classification Sequential Clinical Trials Analysis of Clinical Trials	1 1 3 1 2	No No Yes No Yes	University College London Vijay Bhuchar Ross Curds Adam Crisp Marco Minozzo Jorge Olguin Ian White	General Probabilistic Expert Systems Robust Statistics Probabilistic Expert Systems Quality Control / Industrial Experimentation Graphical Modelling	2 2 1 1 2 2	Yes Yes Yes No Yes Yes
Royal Holloway and Bedford New College	Bruce Dunham	Probability Theory	3	Yes	Warwick Crispin Allard Gwen Tanner	Game Theory / Decision Theory Estimation and Prediction for Agile Targets	2 1	Yes No
Sheffield	Alfred Akinsete Jenny Barrett Mark Broom Bekia Fosam Ben Gorder Adão Hentges Aipore Moraes	Tandem Queues with In-Process Withdrawals Genetic Mapping Patterns of Evolutionary Stable Strategies Characterization of Distribution Functions Outliers in Multivariate Data Predictive Distributions with Missing Data Bayesian Prediction Analysis and Polychotomous Logistic Models	1 2 2 3 1 1 3	Yes Yes Yes Yes Yes Yes Yes				
	Saraleesan Nadarajah Theofanis Sapatinas John Whitaker	Extreme Value Theory Characterizations of Discrete Distributions Evolutionary Game Theory	2 2 3	Yes Yes Yes				