

5. INFORMACIÓN ACADÉMICA Y LABORAL

NOTICIAS

I CONCURSO DE PROYECTOS EDUCATIVOS EN ESTADÍSTICA E INVESTIGACIÓN OPERATIVA PARA PROFESORES DE ENSEÑANZA SECUNDARIA Y BACHILLERATO

La Sociedad de Estadística e Investigación Operativa (SEIO), consciente de la importancia que estas disciplinas tienen hoy en día como materias de formación académica y herramientas para la toma de decisiones en los entornos públicos, privados y empresariales, desea contribuir a la difusión de la Estadística y de la Investigación Operativa en la sociedad. Reconociendo la trascendencia que tiene el aprendizaje de estas materias en la enseñanza no universitaria, la SEIO ha decidido convocar un concurso con el fin de fomentar la elaboración de material didáctico en los ámbitos de la Enseñanza Secundaria y del Bachillerato.

Bases del Concurso

1. Podrán participar todos los profesores que en el curso 2005-06 realicen tareas docentes en los niveles de Educación Secundaria Obligatoria y/o Bachillerato
2. Los concursantes, de forma individual o en grupo, presentarán un proyecto educativo sobre alguno de los temas de Estadística o Investigación Operativa incluidos en el currículum de los niveles señalados.
3. Los trabajos serán inéditos, de una extensión máxima de 15 páginas y deberán tener una estructura similar a la siguiente:

- . Título y pseudónimo
- . Breve introducción al tema: antecedentes, objetivos del proyecto, contenidos tratados y nivel docente
- . Cuerpo del proyecto
- . Experiencia en el aula
- . Conclusiones
- . Referencias

4. Los concursantes remitirán una copia del proyecto impresa en DIN-A4, un disquete o CD que incluya una copia del proyecto en formato PDF, y un sobre cerrado indicando en el exterior el título del proyecto y el pseudónimo, y en el interior: nombre y apellidos del autor/es, nombre, dirección y teléfono del centro/s al que pertenece y un e-mail o teléfono de contacto.

5. Los proyectos se remitirán a la siguiente dirección:

Sociedad de Estadística e Investigación Operativa
 I Concurso de Proyectos Educativos en Estadística e Investigación Operativa para Profesores de Enseñanza Secundaria y Bachillerato
 Facultad de Ciencias Matemáticas
 Universidad Complutense de Madrid
 Despacho 502, Plaza de Ciencias, 3
 28040-Madrid (Ciudad Universitaria)

6. La fecha límite de remisión de los proyectos será el 31 de Mayo de 2006.

7. Se otorgará un premio de 600 € al mejor proyecto presentado, valorándose el interés para el aprendizaje del tema tratado y la adecuación al nivel al que

va dirigido.

8. La Comisión de Educación de la SEIO será la encargada de evaluar los proyectos presentados.
9. El concurso podrá ser declarado desierto o compartido entre varios proyectos, sin que ello suponga una variación en su cuantía global.
10. El concurso se resolverá en el plazo de tres meses desde la fecha límite de presentación de los proyectos.
11. El proyecto ganador será publicado en el Boletín y en la página web de la SEIO.

Madrid, 17 de Octubre de 2005

**GRUPO DE INVESTIGACIÓN PAI
SEJ332: MÉTODOS
CUANTITATIVOS EN EMPRESA Y
ECONOMÍA**



La actividad investigadora desarrollada en el Área Académica de Métodos Cuantitativos del Departamento de Economía, Métodos Cuantitativos e Historia Económica de la Universidad Pablo de Olavide de Sevilla se debe a este grupo de investigación, que tiene como objetivo general aplicar las técnicas cuantitativas a la resolución de problemas reales de índole económico, empresarial y ambiental.

Líneas de trabajo: Métodos Actuariales (planes y fondos de pensiones, seguros ambientales, unit-link, seguros medioambientales, información simétrica y asimétrica); Teoría de Juegos (juegos vectoriales); Teoría de Grafos (aplicada a la

teoría de juegos y al análisis input-output); Análisis Multicriterio (análisis envolvente de datos, problemas de localización); Modelos Econométricos (aplicaciones a la economía de la salud, al análisis input-output, al seguro del automóvil).

Palabras clave: Actuarial; Indicadores Ambientales y de Sostenibilidad; Input-Output; Modelos de Optimización; Modelos Econométricos Regionales; Optimización Multiobjetivo; Seguros; Teoría de Grafos; Teoría de Juegos.

Responsable del grupo: Flor María Guerrero Casas (fguecas@upo.es).

ISBIS: NUEVA SECCIÓN DEL ISI

Alberto Ferrer Riquelme



El pasado mes de abril de 2005, durante el congreso del ISI (International Statistical Institute) celebrado en Sydney (Australia) se aprobó la creación de la "International Society for Business and Industrial Statistics" (ISBIS), como una nueva sección del ISI con vocación de promover el uso y la investigación de los métodos estadísticos en el sector industrial y de los negocios, así como apoyar iniciativas en este sentido, especialmente en los países menos avanzados tecnológicamente.

Más información sobre los objetivos y fines de ISBIS podéis encontrar en: www.stats.wits.ac.za/isbis

Si os interesa haceros miembros de esta nueva sociedad podéis seguir dos caminos:

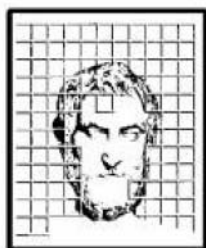
- 1) Para los que ya seáis miembros del ISI, enviad un e-mail a Margaret, responsable de estos temas en el ISI (MMLY@cbs.nl), indicando vuestro interés en formar parte de

la nueva sociedad. Este trámite no tiene gastos.

2) Para los que no seáis miembros del ISI, conseguid el fichero de la solicitud de admisión a través de la web del ISBIS (www.stats.wits.ac.za/isbis) y enviad un fax a la secretaría del ISI (+31-70 386 00 25).

II ENCUENTRO PROVINCIAL DEL PROFESORADO DE MATEMÁTICAS (Sevilla, 10-12 de noviembre de 2005).

Prof. Dr. Ángel F. Tenorio Villalón (Universidad Pablo de Olavide)



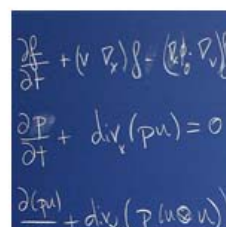
Sociedad Andaluza de Educación Matemática
"THALES"

El II Encuentro Provincial del Profesorado de Matemáticas celebrado en la provincia de Sevilla ha sido organizado conjuntamente por la Sociedad Andaluza de Educación Matemática THALES y los seis Centros del Profesorado de la provincia. El objetivo principal del Encuentro era reflexionar sobre la Educación Matemática y compartir experiencias y recursos didácticos para la enseñanza y aprendizaje de las mismas. Los niveles educativos que se consideraron iban desde la Educación Infantil y Primaria a la Educación Universitaria, pasando por toda la etapa de Educación Secundaria. Se trataron todas las disciplinas que abarcan las Ciencias Matemáticas y, en particular, la Estadística. Así, en la comunicación *Preliminares de un estudio estadístico*, realizada por Ascensión Báez Rojo y M^a Dolores Pereira Figueroa, ambas profesoras de Educación Secundaria,

expusieron su experiencia para explicar a sus alumnos de Bachillerato cómo elaborar una encuesta considerando cada uno de sus pasos, comenzando en la elección de una muestra de la población hasta la elaboración del cuestionario y el posterior análisis de datos y presentación de resultados. En el taller *Tecnologías de la información y la comunicación para el aprendizaje de las Matemáticas*, impartido por José María Chacón Íñigo y Agustín Carrillo de Albornoz Torres, ambos profesores de Educación Secundaria, se mostraron diversos programas informáticos para su uso en la enseñanza y aprendizaje de las Matemáticas en Educación Secundaria que se incluyen en la distribución del Sistema Operativo Guadalinux; más concretamente, trabajaron para la asignatura de Estadística con Kchart, Kspread y OpenOffice Calc. En la ponencia *Matemáticas, Medios y Enseñanza en el siglo XXI*, a cargo de Fernando Corbalán Yuste, también profesor de Educación Secundaria, se explicó la importancia de enseñar los contenidos de Estadística a los alumnos durante su etapa de Educación Secundaria, con el fin de evitar su manipulación por los medios de comunicación, partidos políticos u otros agentes que pueden manipular la información que nos da la Estadística.

CENTRE DE RECERCA MATEMÀTICA

Joan del Castillo
Universitat Autònoma de Barcelona



En septiembre de 1984 iniciaba sus actividades el Centre de Recerca Matemàtica (CRM), bajo la tutela del Institut d'Estudis Catalans (IEC), la primera institución académica de Cataluña. El CRM fue concebido como un instituto independiente de las universidades, si bien desde el principio trabaja en contacto con todas las universidades catalanas y físicamente está ubicado en el Campus de la Universitat Autònoma de Barcelona (UAB).

El primer Premio Abel de la historia, Jean-Pierre Serre, disertó magistralmente el día 9 de noviembre de 2004 en el acto de conmemoración del vigésimo aniversario del Centre de Recerca Matemàtica. El CRM actualmente, por el volumen de investigadores visitantes y becarios postdoctorales, y por las actividades que anualmente organiza, se sitúa entre los institutos europeos más destacados que reúne ERCOM (European Research Centres on Mathematics), cuyo *chairman* desde el año 2002 es el director del CRM, Manuel Castellet.

El crecimiento del CRM ha sido progresivo, tanto en volumen de investigadores, como en actividades diversas. Desde 1987 acoge becarios postdoctorales financiados por el propio CRM, por los gobiernos de Cataluña o de España, por la Comisión Europea (becas Leibniz a principios de la década de los 90, becas Marie Curie a partir de 1996), o a través del European Post-doctoral Institute for the Mathematical Sciences. Todo ello con un presupuesto que en los últimos años se ha situado alrededor de los 900.000 euros, procedentes de las tres fuentes principales de financiación; Gobierno de Cataluña, Gobierno de España y Comisión Europea.

Actualmente, desde el año 2002, el CRM cuenta con personalidad jurídica propia, bajo la forma de un consorcio entre el IEC y el Gobierno de Cataluña. Dispone de un director con la colaboración de dos adjuntos de dirección y un Consejo Científico Asesor, y un reducido equipo de administración y secretaría. No dispone de personal

investigador propio permanente, fundamentándose en los investigadores visitantes y becarios postdoctorales. La idea esencial es promover el contacto personal y la transmisión de conocimiento entre investigadores en campos afines, lo que aporta, sin duda, grandes beneficios al progreso de la investigación matemática, al tratarse ésta de una ciencia que requiere poco instrumental y, en cambio, se basa mucho más en las capacidades de los individuos.

A lo largo de los años la tipología de las actividades ha ido adaptándose no sólo a las disponibilidades presupuestarias, sino, sobre todo, a los intereses de los matemáticos catalanes, incluyendo aquí a probabilistas y estadísticos. En este sentido hay que destacar la intensa actividad que se produjo entre 1996 y 1997 alrededor de la Probabilidad, la Estadística y las Finanzas. Se realizaron dos cursos avanzados (Advanced Course on Stochastic Analysis and Advanced Course on Statistical Inference for Mathematical Finance) y dos *workshops* (Workshop on Probabilistic Algorithms y Workshop on Statistical Inference for Mathematical Finance). Esta actividad dio lugar a la creación del programa de postgrado de "Matemàtiques per als Instruments Financers" que el CRM lleva a cabo junto con el Departament de Matemàtiques de la UAB.

Merece una mención especial este programa de postgrado, que se encuentra ya en su octava edición, porque se realiza en colaboración con las principales instituciones financieras con sede en Cataluña. Las matemáticas para la economía financiera son un feliz punto de encuentro entre economistas y matemáticos y, a su vez, entre probabilistas y estadísticos. El programa ha establecido un importante puente de diálogo entre el mundo académico y el mundo empresarial y es un claro exponente del enriquecimiento que produce a la sociedad la investigación que podríamos llamar pura o teórica.

La actividad del CRM alrededor de temas estocásticos ha seguido desarrollándose

normalmente, así en 2002 tuvieron lugar un curso avanzado y un congreso (Advanced Course on Mathematical Finance: Further models; Stochastic Inequalities and their Applications) y otro congreso en el año 2003 (The Barcelona Conference on Asymptotic Statistics)

Dado el alto nivel de los cursos avanzados organizados por el CRM, a nivel postdoctoral reciente y predoctoral avanzado, la editorial suiza Birkhäuser-Verlag decidió hace 4 años lanzar una serie de textos de difusión internacional que, bajo el nombre *Advanced Courses in Mathematics CRM Barcelona*, recoge el material de aquellos cursos de más alto nivel. Esta serie lleva publicados 8 volúmenes y 2 más están en proceso de impresión.

20 años para un instituto de investigación, cuyo nacimiento fue consecuencia de la iniciativa de un sector de la comunidad matemática, representan ya una larga vida y una intensa experiencia. Una vida que ha permitido realizar: 26 congresos, 25 *workshops* y 23 cursos avanzados, en los que han participado más de 4.000 investigadores y estudiantes de doctorado de 72 países distintos. Una actividad que, sumada a la de los más de 1.000 investigadores de 60 países de los cinco continentes que han trabajado en el CRM, ha permitido mejorar cuantitativa y cualitativamente la investigación matemática en Cataluña y, por extensión, en España.

INSTITUTO CANTABRO DE ESTADÍSTICA – ICANE

El instituto Cántabro de estadística tiene su propia página web <http://www.icanes.es/>



Entre las distintas informaciones que proporciona podemos destacar la publicación del Atlas estadístico de los municipios de Cantabria.

El Instituto Cántabro de Estadística (ICANE) participa en la organización de diversos eventos científicos, entre ellos ha participado en la organización del congreso

EXPLORATORY WORKSHOP ON SPECIFICATION TESTING (Palacio de la Magdalena, Santander, del 16 al 18 de diciembre de 2005). Inf: <http://www.icanes.es/seccion21.html>

NOMINATIONS SOUGHT FOR THE 2006 MITCHELL PRIZE

The Mitchell Prize committee invites nominations for the 2006 Mitchell Prize. The Prize is currently awarded every other year in recognition of an outstanding paper that describes how a Bayesian analysis has solved an important applied problem. The Prize is jointly sponsored by the ASA Section on Bayesian Statistical Science (SBSS), the International Society for Bayesian Analysis (ISBA), and the Mitchell Prize Founders' Committee, and consists of an award of \$1000 and a commemorative plaque. The 2006 Prize selection committee members are Tony O'Hagan (chair), Dave Higdon and Marina Vannucci.

The Mitchell Prize is named after Toby J. Mitchell and was established by his friends and colleagues following his death from leukemia in 1993. Toby was a Senior Research Staff Member at Oak Ridge National Laboratory throughout his career, with leaves of absence spent at the University of Wisconsin and at the National Institute of Environmental Health Sciences. Toby won the Snedecor Award in 1978 (with co-author Bruce Turnbull), made incisive contributions to statistics, especially in biometry and engineering applications, and was a marvelous collaborator and an especially thoughtful scientist. Toby was a dedicated Bayesian, hence the focus of the prize.

Eligible papers for the 2006 Prize must have appeared in a refereed journal or conference proceedings during the years 2003, 2004 or

2005.

The selection committee strongly encourages electronic submissions of the papers being nominated. Entries must be sent to:

Anthony O'Hagan
Professor of Statistics
Department of Probability and Statistics
University of Sheffield
Hicks Building
Sheffield S3 7RH
UK
E-mail: a.ohagan@sheffield.ac.uk

Entries must be received by 1 February, 2006. Authors may nominate themselves. The award will be presented at the 2006 Valencia Meeting.

A Complete entry consists of the following:

- Electronic file of the paper (.ps, .pdf or .doc) being nominated.

Alternatively, 4 copies of the manuscript or reprint should be sent via post.

- A brief statement by the nominator describing the impact of the work.

- Names of two evaluators, not the nominator or coauthors, who are willing and able to credibly evaluate the usefulness of the work from the perspective of the applied field addressed in the paper as distinct from providing comments on its statistical merit.

- Contact information for nominee, nominator (if different) and evaluators noted above.

Complete details about the Prize and the nomination process are provided in the Mitchell Prize Charter that can be obtained from the International Society for Bayesian Analysis website under ISBA awards. Note that the guidelines for the 2006 Mitchell Prize are slightly different than previous years.

THE 2006 DEGROOT PRIZE: CALL FOR ENTRIES

The DeGroot Prize is awarded to the author or authors of a published book in Statistical Science. The Prize is named for Morris ("Morrie") H DeGroot, and recognizes the impact and importance of his work in Statistics and Decision Theory, and his marked influence on the evolution of the discipline over several decades through his personal scholarship, educational and professional leadership.

Award winning books will be textbooks or monographs concerned with fundamental issues of statistical inference, decision theory and/or statistical applications, and will be chosen based on their novelty, thoroughness, timeliness, and importance of their intellectual scope.

NOMINATION for the 2006 award MUST BE RECEIVED BY Friday, 6th January 2006. Only books published during the 5 year period ending December 31, 2004 are eligible for consideration for the prize this year. There is no restriction on publisher or country of publication. Books authored or co-authored by members of the selection committee are ineligible for consideration. The winner of the 2006 DeGroot Prize will be announced at the Valencia/ISBA Eighth World Meeting on Bayesian Statistics, June, 2006.

Letters of nomination should be submitted electronically to the chair of the selection committee,

Professor Steffen L. Lauritzen
Department of Statistics
University of Oxford

email: cstone@stats.ox.ac.uk

Nominations should include the name of the author(s) and the book, the date of publication, and a very brief one to two sentence supporting statement. If the book does not include any biographical information

on the author(s), then a brief one-paragraph biographical statement for each author would be helpful.

COPIES OF THE NOMINATION LETTER AND THE BOOK SHOULD BE SENT DIRECTLY TO ALL COMMITTEE MEMBERS. The webpage

<http://www.bayesian.org/awards/DeGrootPrize.html>

contains the full list of the members and their addresses, as well as further information about the prize.

NUESTRAS REVISTAS

TEST

Volume 14, Number 2, December 2005

CONTENTS

J. M. BERNARDO. Intrinsic Credible Regions: An Objective Bayesian Approach to Interval Estimation317	Dependence Structure of a Multivariate Extreme Value Distribution433
G. CASELLA.(comment)355	P. DUCHESNE. Objective On the Asymptotic Distribution of Residual Autocovariances in VARX Models with Applications..... 449
E. I. GEORGE.(comment) 359	J. A. DÍAZ-GARCÍA AND R. GUTIÉRREZ-JÁIMEZ. Functions of Singular Random Matrices with Applications475
J. GIRÓN AND .MORENO.(comment)362	M. YUAN. Tests Semiparametric Censorship Model with Covariates..... 489
D. PEÑA.(comment)...365	M. D. JIMÉNEZ-GAMERO, J. L. MORENO-REBOLLO, J. M. MUÑOZ-PI-CHARDO AND A. MUÑOZ-REYES. Influence Diagnostics in Regression with Complex Designs Through Conditional Bias.....515
J. ROUSSEAU AND C. P. ROBERT. (comment).....367	B. KLAR. Tests for Exponentiality Against the M and LM-Classes of Life Distributions....543
J. M. BERNARDO. (rejoinder)370	H. T. HWANG, B. SO AND Y. KIM. On Limiting Posterior Distributions567
H. TOUTENBURG AND SHALABH. Estimation of Regression Coefficients Subject to Exact Linear Restrictions when Some Observations are Missing and Quadratic Error Balanced Loss Function is Used385	Los resúmenes y el artículo completo en formato PDF se pueden consultar en la página Web de TEST: http://www.seio.es/test/
A. CASTAÑO-MARTÍNEZ AND F. LÓPEZ-BLÁZQUEZ. Distribution of a Sum of Weighted Noncentral Chi-Square Variables397	
A. CABAÑA AND A. J. QUIROZ. Using the Empirical Moment Generating Function in Testing for the Weibull and the Type I Extreme Value Distributions 417	
A. P. MARTINS AND H. FERREIRA. The Multivariate Extremal Index and the	

TOP

Volume 13, Number 2, December 2005

CONTENTS

J. DUTTA. GENERALIZED DERIVATIVES AND NONSMOOTH OPTIMIZATION, A FINITE DIMENSIONAL TOUR	185	M.A. GOBERNA, L. HERNÁNDEZ AND M.I. TODOROV. SEPARATING THE SOLUTION SETS OF ANALYTICAL AND POLYNOMIAL SYSTEMS.....	279.....321
A. DANIILIDIS (COMMENT)	279	J. ARIN. MONOTONICITY PROPERTIES OF THE NUCLEOLUS ON THE DOMAIN OF BALANCED GAMES	283..... 321
S. DEMPE (COMMENT)	283		
D. MORDUKHOVICH (COMMENT).....	287		
J.-P. PEROT (COMMENT)	290		
A. RUBIROV (COMMENT)	297		
A. SHAPIRO (COMMENT)	302	M. ADÁN AND V. NOVO. DUALITY AND SADDLE-POINTS FOR CONVEX-LIKE VECTOR OPTIMIZATION PROBLEMS ON REAL LINEAR SPACES	302..... 343
J. DUTTA (REJOINDER).....	307		
P.L. PAPINI. TWO NEW EXAMPLES OF SETS WITHOUT MEDIANS AND CENTERS	315	L. TADJ AND G. CHOUDHURY. OPTIMAL DESIGN AND CONTROL OF QUEUES	315..... 359

TESIS

DIFUSIONES LOGNORMALES TRIPARAMÉTRICAS MULTIVARIANTES CON FACTORES EXÓGENOS

Autor: Eva M^a Ramos Ábalos
 Director: Dr. D. Ramón Gutiérrez Jáimez.
 Dpto.: Estadística e Investigación Operativa.
 Universidad de Granada
 Fecha de lectura: 7 de Julio de 2005

Resumen: Se considera el estudio original de los siguientes procesos de difusión lognormales tripamétricos:

1. Proceso lognormal unidimensional con tres parámetros. Se construyen dos métodos para la simulación de la trayectoria del proceso y se plantea una reparametrización del mismo.
2. Proceso lognormal bidimensional con tres parámetros con q factores exógenos que afectan al tendencia infinitesimal.

3. Proceso lognormal bidimensional con tres parámetros y un factor exógeno, de manera que cada componente de dicho vector exógeno afecte a la correspondiente variable endógena de la tendencia infinitesimal del proceso.
4. Proceso lognormal multidimensional con tres parámetros con factores exógenos. Se presentan algunos contrastes basados en la razón de verosimilitudes.

Todos se presentan desde el punto de vista de la solución de las ecuaciones de Kolmogorov, se determinan los momentos, se aborda la estimación de los parámetros y se calcula la matriz de información de Fisher en algunos de ellos.

Por último se realiza una aplicación a datos reales para el estudio de la evolución de "Edad media al primer matrimonio. Se plantea el método de optimización "Simulated Annealing" y se usa para la estimación de los parámetros.

**APORTACIONES AL ESTUDIO DE
MODELOS ESTOCÁSTICOS
ASOCIADOS A CURVAS DE
CRECIMIENTO: UN NUEVO
PROCESO DE DIFUSIÓN TIPO
GOMPERTZ**

Autora: Desirée Romero Molina
Directores: Dr. D. Francisco de Asís Torres Ruiz y Dra. Dña. Patricia Román Román
Departamento: Estadística e Investigación Operativa. Universidad: Granada
Fecha de lectura: 8 de Julio de 2005

Resumen: Se propone y estudia un nuevo proceso de difusión asociado a una expresión particular de la curva de crecimiento Gompertz que hace que la cota superior de dicha curva dependa del valor en el instante inicial. Se ha realizado un resumen histórico de los principales modelos de crecimiento, centrándonos en algunos de los procesos estocásticos asociados a ellos. También se ha trabajado la obtención del nuevo proceso incluyendo un estudio de sus principales características y la estimación del modelo proponiendo distintos métodos alternativos para la obtención de los estimadores. Se incluye un estudio del problema de tiempo de primer paso a través de barreras y un estudio del problema del tiempo en que se produce la inflexión en el modelo. Finalmente, se aplican los resultados obtenidos a lo largo de la memoria a datos reales introduciendo una estrategia que permite encontrar agrupaciones con patrones de comportamiento similares.

**DIFUSIONES ESTOCÁSTICAS NO
HOMOGÉNEAS LOGNORMALES Y
GOMPERTZ. PROCESO DE
RAYLEIGH. APLICACIONES.**

Autor: D. Ramón Gutiérrez Sánchez
Directores: D. Ramón Gutiérrez Jáimez; D. Francisco Torres Ruiz
Departamento: Estadística e Investigación Operativa. Universidad de Granada
Fecha de lectura: 8 de Julio de 2005

Resumen: Las aportaciones más significativas

son:

a) Se establecen la teoría probabilística y la inferencia paramétrica, de un Modelo de Difusión Lognormal, multivariante, no homogéneo con factores exógenos propios para cada variable endógena, realizándose la modelización de fenómenos reales bidimensionales (PIB, precio de la vivienda nueva en España).

b) Se estudia, probabilística y estadísticamente, varios modelos de Difusiones univariantes, no homogéneos, con factores exógenos funcionales, adecuados para casos de especial interés en la Teoría de Tiempos de Primer Paso.

c) Se consideran varios Modelos Gompertz, homogéneos y no homogéneos, con factores exógenos funcionales generales y observados en tiempos discretos. Se establece la inferencia estadística por muestreo continuo con factores observados discretamente, y modelizándose de las tendencias del parque de vehículos en España según carburante.

d) Estudio probabilístico de la Difusión de Rayleigh, univariante-homogénea, estableciéndose la inferencia estadística básica sobre sus parámetros mediante muestreo continuo. Se aplica a casos reales, analizándose las evoluciones de la esperanza de vida, la mortalidad infantil, y el número de fallecimientos por cáncer.

**APORTACIONES AL ESTUDIO DEL
PROCESO DE DIFUSIÓN
LOGNORMAL: BANDAS DE
CONFIANZA APROXIMADAS Y
GENERALIZADAS. ESTUDIO DEL
CASO POLINÓMICO**

Autora: Nuria Rico Castro
Directores: Dra. Dña. Patricia Román Román y Dr. D. Francisco de Asís Torres Ruiz
Departamento de Estadística e Investigación Operativa. Universidad de Granada
Fecha de lectura: 9 de julio de 2005

Resumen: Las aportaciones fundamentales de esta tesis se centran en:

- El problema de construcción de bandas de confianza para las funciones media y moda del proceso de difusión lognormal de forma aproximada y generalizada, estudiando distintos métodos para su construcción y se comparándolos mediante estudios de simulación.

- El estudio del proceso de difusión lognormal con factor exógeno polinómico. Se realiza la estimación de los parámetros y se obtienen expresiones recursivas que permiten el ajuste recursivo tipo forward para los estimadores cuando se introduce en el modelo un polinomio de grado superior.

Se concluye el trabajo proponiendo un ejemplo de aplicación donde se construye el factor exógeno como una función polinómica y se estudian las bandas de confianza aproximadas y generalizada mediante simulación.

MULTI-PERIOD EQUILIBRIUM / NEAR-EQUILIBRIUM IN ELECTRICITY MARKETS BASED ON LOCATIONAL MARGINAL PRICES

Autora: Raquel García Bertrand

Director: Antonio J. Conejo Navarro
Departamento de Ingeniería Eléctrica,
Electrónica, Automática y Comunicaciones
Universidad de Castilla – La Mancha

Fecha de lectura: 19 de octubre de 2005

Resumen: El equilibrio en un mercado de energía eléctrica se alcanza cuando cada uno de los agentes del mercado maximizan simultáneamente su beneficio. Una herramienta que identifique dicho equilibrio es de gran interés para el regulador del mercado para monitorear el mercado, y también para las compañías de generación y consumidores con el fin de analizar sus estrategias de mercado más apropiadas. Esta tesis desarrolla una herramienta que determina el equilibrio de un mercado eléctrico optimizando simultáneamente los objetivos de cada agente del mercado, y cumpliendo las restricciones técnicas de los generadores y de la red.

En algunos mercados de energía eléctrica se permite a los generadores imponer condiciones de beneficios mínimos las cuales son difíciles de considerar en el modelo de equilibrio debido a que involucran variables primales y duales. El modelo de equilibrio planteado en esta tesis emplea la teoría complementaria para incluir este tipo de condiciones.

La herramienta desarrollada en esta tesis obtiene el equilibrio de un mercado eléctrico no sólo teniendo en cuenta las condiciones de beneficios mínimos sino también considerando un horizonte temporal multi-período. El modelo de equilibrio multi-período incluye no-convexidades debido al uso de variables binarias para modelar los arranques y paradas de las centrales eléctricas, lo que hace que este problema sea complicado de formular y resolver. En esta tesis, dicho equilibrio multi-período se ha formulado y resuelto empleando la técnica de descomposición de Benders que trata de un modo adecuado las no-convexidades del problema, y empleando la teoría complementaria que permite imponer restricciones en las variables duales del problema tales como las condiciones de beneficios mínimos.

Finalmente, los procedimientos desarrollados se ilustran empleando distintos casos de estudio.

GEOSTATISTICS FOR CONSTRAINED VARIABLES: POSITIVE DATA, COMPOSITIONS AND PROBABILITIES

Autor: Raimon Tolosana Delgado

Directora: Vera Pawlowsky Glahn

Lugar: Departament d'Informàtica i

Matemàtica Aplicada, Universitat de Girona

Fecha de lectura: Diciembre 2005

Resumen: Un modelo que permita la estimación consistente de la probabilidad de un suceso debe tener en cuenta que a menudo los datos presentan dependencia espacio-temporal, y su soporte y escala no corresponden a los de una variable real. Nos centramos en cómo

estimar la distribución de las variables regionalizadas cuyo soporte acepte una estructura de espacio Euclídeo. La herramienta fundamental es el *principio del trabajo en coordenadas*: escójase una base ortonormal, hágase estadística sobre las coordenadas de los datos, y aplíquense los *output* a la base para recuperar un resultado en el mismo espacio. Con esta estrategia, por ejemplo, se define una distribución normal en cualquier espacio Euclídeo. Aplicando este principio a las variables regionalizadas, obtenemos una aproximación única consistente, que generaliza las conocidas propiedades de las distintas técnicas del krigeado a varios espacios soporte: datos reales, positivos y composicionales (vectores de componentes positivas cuya suma es constante) son tratados como casos particulares. El caso real da la geoestadística lineal clásica, mientras que las otras dos ofrecen alternativas que resuelven muchos de los problemas habituales de la geoestadística no-lineal. El caso positivo, por ejemplo, ofrece un estimador de krigeado tipo media geométrica ponderada, robusto frente a errores en la determinación del variograma y con buenas propiedades de estimación por intervalo. En particular, nunca da resultados negativos, como sí sucede con otros métodos. Además, es válido también para bloques, y conduce a un modelo consistente de cambio de soporte: a diferencia del método clásico, no resulta necesario asumir la *conservación de la lognormalidad*. Para el caso composicional, simplemente se generalizan las conclusiones del estudio de datos positivos. Sin embargo, dado el paralelismo existente entre una composición y un vector multinomial, conseguimos también una alternativa al krigeado indicador. Éste se usa para estimar la función de distribución de una variable regionalizada, aunque a menudo da resultados no crecientes, negativos o mayores que uno. Contrariamente, la alternativa propuesta estima una versión discreta de la función de densidad, y ofrece siempre resultados válidos. Esta propuesta muestra paralelismos con la estadística Bayesiana y la Teoría de la Información.

CONTROL ESTADÍSTICO DE PROCESOS MEDIANTE ANÁLISIS MULTIVARIANTE DE IMÁGENES

Autor: José M. Prats,
 Director: Alberto Ferrer
 Departamento de Estadística e Investigación Operativa Aplicadas y Calidad
 Universidad Politécnica de Valencia
 Fecha de lectura: 28 de septiembre de 2005

Resumen: El abaratamiento de la adquisición de imágenes en color en los procesos industriales ha llevado a la posibilidad de controlar los mismos a partir de la inspección visual automatizada de las primeras. Una manera de enriquecer la información proporcionada por estas imágenes es incluir información de tipo textural.

Las estructuras de datos resultantes tienen tres tipos diferentes de direcciones de variación natural: la información muestral, definida por los píxeles; la textural, formada por los píxeles adyacentes al que constituye la muestra; y la formada por los canales de color.

El análisis multivariante de estas imágenes puede llevarse a cabo mediante modelos Unfold-PCA o Unfold-PLS, o bien a partir de modelos N-way.

Una vez caracterizadas la/s imagen/es “patrón”, se puede determinar la adecuación de nuevas imágenes a la/s primera/s a partir de los estadísticos T2 y SCR, y reubicar los píxeles que superan los límites en la imagen original.

Otra estrategia consiste en, a partir de la compresión de la imagen patrón con diferentes tipos de defectos, ver cómo se agrupan los píxeles en los Score Plots más discriminantes. Dichas agrupaciones permiten después localizar los defectos en la imagen original, a la vez que definir zonas de los Score Plots asociadas a dichos defectos y definir límites para los mismos.

OPORTUNIDADES DE TRABAJO

CREACIÓN DEL DEPARTAMENTO DE ESTADÍSTICA EN EL CSIC



Desde la dirección del CTI se ha planteado la posibilidad de hacer una ampliación del departamento de Estadística que revierta en un mejor servicio de asistencia a usuarios, formación, participación en proyectos, etc. Este nuevo departamento asumiría tareas de asistencia tanto a investigadores como a servicios de la administración y gestión del CSIC.

De momento la profesora Laura Barrios es la única integrante del departamento, aunque algunas personas del área de informática científica se encargan de una parte importante del mismo como es la gestión e instalación del software.

Se necesitan colaboradores para llevar a cabo el proyecto del nuevo departamento. La incorporación de nuevo personal podría hacerse, en principio, de dos formas:

Los interesados han de ponerse en contacto con:

Laura Barrios
Departamento de Estadística
Centro Técnico de Informática – CSIC

OPEN-LEVEL PROFESSOR POSITION DEPARTMENT OF STATISTICS UNIVERSITY OF CALIFORNIA, RIVERSIDE

Position Description: The Department of Statistics, University of California, Riverside, invites applications for a 9-month tenured

Mediante un concurso publico de una plaza de nivel 26, que podría cubrirse antes en comisión de servicios. Pueden optar funcionarios solamente.

Mediante la contratación de servicios a través de una empresa. Esto da una mayor flexibilidad, pero no garantiza del mismo modo la estabilidad en el empleo.

Perfiles posibles son los siguientes:

Titulado/a Superior en Estadística o Matemáticas o diplomado/a en Estadística.

Experiencia en estadística aplicada.

Titulado/a superior en cualquier disciplina de las áreas de CC. Experimentales o CC. Sociales con amplia formación y experiencia acreditada en estadística aplicada.

appointment at the Associate or Full professor level. Appointment is to begin on July 1, 2006. The appointment requires evidence of nationally/internationally-recognized achievements, an established record of funded research, collaboration, and exemplary teaching. Priority will be given to candidates capable of developing statistical theory and methods that have applications in Genomics, Bioinformatics, Environmental Sciences, Engineering, Health Statistics, or

Biological Statistics. The Department of Statistics currently has seven ladder-rank faculty and three lecturers and has an active Statistical Consulting Collaboratory where collaborative research opportunities are plentiful. Additional opportunities for collaborative research are available with the Genetics Graduate Program, the Institute of Genomics and the Center for Biotechnology, all of which are concerned with basic research in statistical genomics, bioinformatics, environmental sciences, and biological statistics.

Research: Candidate should have an established research program in theoretical Statistics that has applications in natural and agricultural sciences, engineering or industrial statistics. Basic research using classical and/or Bayesian concepts is encouraged.

Teaching: The successful candidate will contribute to graduate teaching in advanced

The University of California is an Affirmative Action/Equal Opportunity Employer

**ASSISTANT PROFESSOR
POSITION
DEPARTMENT OF STATISTICS
UNIVERSITY OF CALIFORNIA,
RIVERSIDE**

Position Description: The Department of Statistics, University of California, Riverside, invites applications for a 9-month tenure-track position at the Assistant Professor level.

Appointment is to begin on July 1, 2006. The appointment requires a strong evidence of research, collaboration, and teaching. Priority will be given to candidates capable of developing statistical methodology for collection and inferential analysis of data arising from applications that include at least one of the following application areas: Engineering, Industrial Statistics, Data Mining, Economics and Social Sciences. The Department of Statistics currently has seven

courses in statistical theory and methods. This person will teach primarily advanced graduate course in statistical theory and methods, with occasional upper division undergraduate courses.

Requirements: A Ph.D. in Statistics or Biostatistics with strong credentials in mathematical statistical theory and the proven ability to conduct innovative research are required. Evaluation of applicants will begin December 15, 2005, but the position will remain open until filled.

Application: Women and members of other underrepresented groups are especially encouraged to apply. Please send CV, statement of teaching and research plans, and at least three references to:

Dr. Barry Arnold
Chair, Search Committee, Department of
Statistics, University of California
Riverside, CA 92521-0138. Email:
barry.arnold@ucr.edu

ladder-rank faculty and three lecturers and has an active Statistical Consulting Collaboratory where collaborative research opportunities are plentiful.

Research: Candidate should have a balanced research program in fundamental Statistics that has links to one or more of the above application areas. Research interests that utilize both classical and Bayesian approaches is a plus.

Teaching: This person will contribute to teaching upper-division undergraduate courses and graduate level courses in mathematical and applied statistics.

Requirements: A Ph.D. in Statistics or Biostatistics with strong credentials in mathematical statistical theory and the proven ability to conduct innovative research are required. Evaluation of applicants will begin December 15, 2005, but the position will remain open until filled.

Application: Women and members of other underrepresented groups are especially

encouraged to apply. Please send CV, statement of teaching and research plans, and at least three references to:

Professor Daniel R. Jeske, Co-Chair
Search Committee
Department of Statistics

University of California
Riverside, CA 92521-0138
Telephone: (951) 827-3014 or
(Message) (951) 827-3774
Fax: (951) 827-3286
Email: daniel.jeske@ucr.edu

WebPages:<http://cnas.ucr.edu/~stat/homepage.htm>

**VACANCY: ASSISTANT PROFESSOR
UNIVERSITY OF MAASTRICHT,
THE NETHERLANDS**

The University of Maastricht is the youngest university in the Netherlands and currently has about 12,000 students and more than 3,000 employees. The University has seven faculties, Arts & culture, Economics & Business and Administration, General Sciences, Health Sciences, Law, Medicine and Psychology. The University Maastricht also has international programs, like the University College Maastricht, which is a broad bachelor program.

The Department Methodology and Statistics of the University of Maastricht, The Netherlands, invites applications for an assistant professorship:

Assistant professor in Biostatistics/Medical Statistics (1.0 fte, f/m)

Tasks: The Department Methodology and Statistics teaches elementary and advanced courses in statistical methods and research methods to Bachelor, Master and PhD. students in the Health Sciences, Medicine and Psychology. The research of the Department focuses on optimal design and analysis of longitudinal studies with random effect and multilevel models.

The assistant professor will be mainly responsible for the education, research and consultation in the Faculty of Medicine.

Requirements: We are looking for applicants who have a PhD. in Biostatistics or any other applied statistics field, such as biometrics, psychometrics with a research track in design

or analysis of medical and health science studies and publications in international journals. We expect the candidate to be committed to excellent and innovative teaching. Applications from women and minorities are encouraged.

Salary: We offer in principle a full time tenured position (universitair docent 2^o position UFO profile), with a review after two years. Salary amounts to a maximum €4605, salary scale 12.

Information and application:

Information can be obtained from Prof. dr. Martijn P.F. Berger, Chair of the Department Methodology and Statistics, Maastricht University, P.O. Box 616, 6200 MD Maastricht, The Netherlands. E-mail: Martijn.Berger@stat.unimaas.nl

Please send your application with CV to Prof. dr. Martijn P.F. Berger, Department Methodology and Statistics, Maastricht University, P.O. Box 616, 6200 MD Maastricht, The Netherlands.

Applications close October 30th, 2004

SECTION I
UNIVERSITY OF OXFORD
MATHEMATICAL AND PHYSICAL
SCIENCES DIVISION
MATHEMATICAL INSTITUTE IN
ASSOCIATION WITH BRASENOSE
COLLEGE
UNIVERSITY LECTURERSHIP IN
MATHEMATICAL BIOLOGY

Description of Joint Appointment and Application Procedure

Applications are invited for a University Lecturership in Mathematical Biology. The successful candidate will be appointed to a Tutorial Fellowship at Brasenose College. The combined University and College salary will be according to age on a scale up to £45,707 per annum. Details of the Department and further details of the University post are given in Section II and details of the College and further details of the College post are given in Section III.

The Mathematical Institute plans to develop further its strength in mathematical biology, providing suitably strong candidates present themselves. This post is intended to be part of this programme.

The appointee will therefore be expected to have a record demonstrating a high standard of research ability in mathematical biology consistent with the international standing of the Mathematical Institute. The appointee will also be expected to have the ability to teach effectively over a wide range of topics in the undergraduate mathematics syllabus at Oxford, not exclusively in the area of his or her research expertise, and including most topics in

applied mathematics in the syllabus of the first and second year undergraduate mathematics course.

Duties

The duties of the university post are as follows.

- a) to engage in research;
- b) to give, under the direction of the Chairman of Mathematics, not less than thirty-two lectures in each academic year, spread over not less than six weeks of each term, provided that the board may permit the lectures to be given in not less than twelve weeks of two terms of the year if it is satisfied that this is desirable from the point of view of the lecture list and that you will be available in Oxford in the third term unless leave of absence has been granted by the component authority.
- c) to contribute not fewer than four classes per annum to the Inter-Collegiate Class Échème organised by the Inter-Collegiate Class Co-ordinator.

The teaching duties may be varied by agreement with the Chairman of Mathematics (in the case of university duties), by agreement with your college (in the case of college duties) or by agreement with the Inter-Collegiate Class Co-ordinator (in the case of inter-collegiate activities).

The lecturer will also be required to act as examiner and to supervise graduate students if requested to do so.

He or she will be entitled, on invitation from the Divisional Board, to serve as the Chairman of Mathematics (as the headship of the department, the Mathematical Institute, is known).

The normal college teaching load of a university lecturer with a tutorial fellowship is six hours per week. The College duties are set out in detail in Section III.

Selection Criteria

(a) Research

The selection committee will consider the extent to which each candidate shows evidence of substantial achievement or potential (commensurate with the candidate's career and with an academic position at Oxford University) in the field of mathematical biology as demonstrated by publications, research grants etc.; the application should include a list of refereed publications, books and other articles by the applicant. The committee may ask for copies of these items;

- shows evidence of invitation to and participation in conferences, seminars and research workshops;
- shows evidence of a relevant and realisable research plan, relevant to the activities of the Centre for Mathematical Biology.

(b) Teaching.

The selection committee will consider the extent to which each candidate has the ability and experience to teach effectively over a wide range of topics in the undergraduate mathematics syllabus at Oxford, not exclusively in the area of his or her research expertise, and which should include most topics in applied mathematics in the syllabus of the first or second year undergraduate mathematics course.

(c) Other duties.

The selection committee will consider the extent to which each candidate demonstrates ability and willingness to participate in the full range of administrative and organisational tasks in both the department and the College;

- demonstrates a willingness to act as personal tutor to Mathematics students in college, with the interpersonal skills to provide effective pastoral care;
- demonstrates the ability and willingness to participate fully in the life of the college.
- shows evidence that he or she would contribute effectively to administration in the Mathematical Institute

Application Procedure

Applicants should submit 10 copies of a letter of application explaining how they meet the eligibility and selection criteria for the post, a CV and publications list, together with the names and contact details of two academic referees, at least one of whom should be from outside Oxford University, to The Administrative Assistant (Vacancies), The Mathematical Institute 24-9 St Giles' Oxford OX1 3LB (vacancies@maths.ox.ac.uk) to arrive no later than 3 February 2006. Applicants based overseas need send only one copy of the above. **Applicants should contact their referees and arrange for references to be sent to the Administrative Assistant by the closing date.** Please quote reference number BK/05/007.

It is planned to hold interviews on 14-15 March 2006.

Candidates short-listed for the university lecturership will be invited to give a short lecture of about twenty minutes' duration on their research interests (which need not be exclusively on the candidate's own contributions) designed for a general audience of specially invited members of the department.

The University will assume that it is free to approach referees at any stage unless the candidate's application stipulates otherwise. All reasonable interview expenses will be reimbursed. The appointment will be subject to satisfactory completion of a medical questionnaire and the provision of proof of the right to work in the UK.

The recommendation of the selection committee will be subject to ratification by the Divisional Board and the Governing Body of Brasenose Collage

**SECTION II
UNIVERSITY OF OXFORD
UNIVERSITY LECTURERSHIP IN
MATHEMATICAL BIOLOGY
FURTHER DETAILS CONCERNING
THE UNIVERSITY POST**

A. The Department

The University of Oxford employs over 7,100 academic, research and support staff across a wide range of academic disciplines. Its mission is to achieve and sustain excellence in every area of its teaching and research, maintaining and developing its historical position as a world-class university, and enriching the international, national, and regional communities through the fruits of its research and the skills of its graduates.

The academic administration of the University is conducted through five divisions (Humanities, Social Sciences, Life and Environmental Sciences, Mathematical and Physical Sciences, and Medical Sciences). The Mathematical and Physical Sciences Division consists of eight constituent departments: the Department of Chemistry, Computing Laboratory, the Department of Earth Sciences, the Department of Engineering Science, the Department of Materials, Mathematical Institute, the Department of Physics and Statistics. The division provides a framework for interdisciplinary teaching and research. There are also links with the Life and Environmental Sciences Division and with the Medical Sciences Division.

The Mathematical Institute, as the Department of Mathematics is known, strives to be one of the leading mathematics departments in the world, with a significant research profile in central areas of contemporary mathematical

research. Mathematical Biology is one of the foremost growing research areas in science and, in recognition of this, Oxford recently created a new chair in Mathematical Biology, which has been taken up by Professor P.K. Maini. This position is intended to support that appointment.

The Centre for Mathematical Biology (CMB), which is part of the Mathematical Institute, presently consists of over 20 members, made up of graduate students, postdocs, and senior visitors. It has close links with over 10 different Life Sciences groups in Oxford with several collaborative grants. There are also collaborations within the Mathematical Institute (in particular, with Jon Chapman, Andrew Fowler and John Norbury) as well as with Numerical Analysis (Andrew Wathen and David Gavaghan), and with the Bioinformatics group.

Internationally, it has several more collaborations, and is the editorial office of the *Bulletin of Mathematical Biology*.

The CMB was founded in 1983 under the leadership of Professor J.D. Murray, FRS, with the remit to foster interdisciplinary research in the then new area of mathematical biology. It has had a profound influence on the growth of the subject area. It covers a large breadth of research areas, including applications in developmental biology, heart physiology, cancer biology, wound healing, and more recent areas of research include modelling pest control strategies. The CMB is part of the 2.5 million pound Integrative Biology e-Science Project (PI David Gavaghan) and is involved in the new Systems Biology Initiative presently underway in Oxford. It currently receives support from the EPSRC, BBSRC, WellcomeTrust, MRC, NERC, and EC. The Mathematical Institute recently appointed Dr Ruth Baker as an RCUK Fellow at the CMB. Oxford has ten statutory chairs in Mathematics (including the chair in Numerical Analysis currently held in the Computing Laboratory). In pure mathematics: the Waynflete Professorship of Pure Mathematics, held until his recent retirement by D.G. Quillen (a Fields

Medallist), the Savilian Professorship of Geometry, held by N.J. Hitchin, FRS, the Wallis Professorship of Mathematics, held by T.J. Lyons, FRS, the Professorship of Pure Mathematics, held by D.R. Heath-Brown, FRS, and the Professorship of Mathematical Logic, held by B. Zilber. In applied mathematics: the Sedleian Chair of Natural Philosophy, held by J.M. Ball, FRS, the Rouse Ball Chair held by P. Candelas, the Professorship of Mathematics and its Applications held by S.J. Chapman, and the new chair in Mathematical Biology, held by P.K. Maini. Other professors include C.J.H. Batty, M du Sautoy, R.G. Haydon, D Joyce, F.C. Kirwan, FRS, L.J. Mason, D. Segal, U. Tillmann, K.P. Tod, M.R. Vaughan-Lee, A.J. Wilkie, FRS, J.S. Wilson, and N.M.J. Woodhouse. Dr G. Segal, FRS, works in Oxford as a Fellow of All Souls College. The Mathematical Institute incorporates the Oxford Centre for Industrial and Applied Mathematics (OCIAM), as well as the Centre for Mathematical Biology. Dr J. R. Ockendon, FRS is research director of OCIAM.

The Institute acts as the focus of activity in Pure and Applied Mathematics. Its facilities, such as the Whitehead Library (for research in Mathematics) and the computer network, are available for all members of the faculty. Most lectures and research seminars in Mathematics take place in the Institute, though some first-year and second-year lectures are held nearby in the lecture theatre of the University Museum. There are outstanding library facilities in Oxford, including the Radcliffe Science Library (a copyright deposit library). The Division of Mathematical and Physical Sciences has several undergraduate courses in Mathematics, including the Honour Schools of Mathematics, Mathematics and Statistics, Mathematics and Computer Science, and Mathematics and Philosophy (jointly, in this last case, with the Faculty of Philosophy). Each can be read either as a three-year course (leading to a BA) or as a four-year course (leading to an MMath). All attract excellent students. They are designed around 16-lecture units which are shared, as far as possible, between the different honour schools, especially in the first two years. There is a

large menu from which undergraduates can select in the third and fourth years of their courses, providing significant opportunities for teaching advanced material. There are also a number of one-year MSc courses. Most relevant to the present post is the MSc in Mathematical Modelling and Scientific Computing, which attracts 25-30 students per year and has been an influential training programme in applied and numerical mathematics nationally and internationally for several decades.

Over the last few years several younger members of the Institute have received special recognition for their work. Dominic Joyce, Martin Bridson, Gero Friesecke (now at Warwick), Marc Lackenby, Jon Chapman, Ulrike Tillmann, and Bernd Kirchheim have all been awarded LMS prizes. Susan Howson and Dominic Joyce have won Adams Prizes. Dominic Joyce and Michael McQuillan were the only two UK mathematicians to be awarded prizes at the Barcelona meeting of the European Mathematical Society, and Gero Friesecke was awarded the Oberwolfach prize. Senior prizes have recently been awarded to Terry Lyons, FRS (LMS Polya Prize 2000), Nigel Hitchin, FRS (LMS Polya Prize 2002), Peter Neumann (LMS Senior Whitehead Prize 2003), John Ball, FRS (LMS/IMA Crighton Medal 2003), Boris Zilber (LMS Senior Berwick Prize 2004), and Sir Roger Penrose, OM, FRS (LMS De Morgan Medal 2004). Sir Michael Atiyah, OM, FRS, formerly a member of the department, was awarded the 2004 Abel Prize (jointly with I.M. Singer) for work carried out in Oxford. Francis Kirwan, FRS, is currently President of the London Mathematical Society and John Ball, FRS, is President of the International Mathematical Union.

The Institute's reputation continues to attract graduate students of the highest calibre, from overseas as well as from the UK. It admits approximately 40 research students to read for the D.Phil. in Mathematics each year. Research groups organise graduate lectures in their own areas, and the arrangement of supervision of

their research students is co-ordinated by the Institute's Director of Graduate Studies.

Detailed information about the Mathematical Institute and the CMB may be found at <http://www.maths.ox.ac.uk/> and <http://www.maths.ox.ac.uk/cmb>.

B. Standard Terms and Conditions

1. The successful candidate will be appointed according to age on the Oxford lecturer scale. In wholly exceptional circumstances, selection committees may propose the appointment of an individual at a salary within the scale at any point above the standard age-wage point. Selection committees may also, in wholly exceptional cases, propose the awarding within the scale of additional increments above the age-wage point to lecturers at any time during their appointment. This salary scale is unique to Oxford and its top point is above the top substantive point of the national lecturer B scale. It has no bar.

The lecturer will have the option of becoming or remaining a member of the Universities Superannuation Scheme (USS).

2. Additional remuneration is currently paid to those undertaking examining and graduate supervision.

3. Upon completion of an initial period of appointment (which is normally five years), a university lecturer is eligible for reappointment until retiring age, subject to the provisions of the Statutes and Regulations of the University. Evidence of lecturing competence and of substantial progress in research are prerequisites for reappointment to the retiring age.

The lecturer will be required to retire not later than the 30 September immediately preceding the 66th birthday, except that, if the successful candidate can establish a vested interest, as defined in the University's statutes (details available on request), in retirement at age 67 or later, then the date of retirement will not be later than the 30 September immediately preceding the 68th birthday.

4. All appointments are subject to the relevant provisions of the Statutes and Regulations of the University in force from time to time, as

published from time to time in the University Gazette.

All university lecturers, with other members of the academic staff and certain senior academic-related staff, are normally members of Congregation, which is the University's ultimate governing body. Congregation's approval is required for all university statutes or amendments to statutes, and for major policy decisions, and the members of Congregation constitute the electorate for ten of the members of the main executive body (the Council of the University) and for members of a number of other university committees. Twenty or more members of Congregation may initiate the discussion by Congregation of matters of university policy, and any two members may ask questions about the policy or administration of the University. The person appointed to this post will receive full details soon after he or she takes up the appointment.

5. The holder of this post is eligible to apply for sabbatical leave. In general, one term of sabbatical leave is available for each six terms of qualifying service: qualifying service is built up on a 'rolling' basis, so that leave which is not taken is not lost (although qualifying service does not accrue beyond the maximum of 18 terms). Further details are available on request.

6. The University encourages links with industry and other outside bodies. Although the holding of outside appointments such as consultancies must be approved by the head of department, no limit as such is set on the amount of money individuals may receive in this way. The criterion is the amount of time such appointments take up: a maximum of 30 days per annum may be spent on such activities before any deduction in stipend is considered.

7. The Statutes and Regulations of the University record the extent of the University's claims to intellectual property, and the proportions in which exploitation revenues are shared with researchers. Copies of the relevant extracts are available on request.

8. All staff participate in the University's appraisal scheme which is currently under review.

9. The University has generous maternity leave arrangements. Provided that they have at least

26 weeks' service with the University at the fifteenth week before the expected week of childbirth, or at the fifteenth week before the expected week of childbirth have had two years' continuous service with any employer in the past, or were at any stage entitled to the benefits of a previous employer's paid maternity leave scheme, women may choose between two schemes offering combinations of maternity leave on full and half pay: both schemes also offer periods of unpaid leave. Arrangements are available for the flexible use of untaken unpaid leave to enable a phased return to full duties; for women to return to work on a parttime basis after the birth of their child; and for paternity leave. We will consider requests for flexible working arrangements.

10. The University has three subsidised nurseries and also subsidises places at some local nurseries, although at present there is a waiting list. There is also a salary sacrifice écheme whereby parents with children at university nurseries are able to save on income tax and national insurance contributions, and a virtual voucher scheme for parents with children not at university nurseries whereby a saving is made on national insurance contributions. There is also a holiday playscheme for school-age children. Further information may be obtained from the childcare website (www.admin.ox.ac.uk/eop/child), by e-mailing childcare@admin.ox.ac.uk, or writing to the Diversity and Equal Opportunities Unit, University of Oxford, University Offices, Wellington Square, Oxford OX1 2JD.

11. The policy and practice of the University of Oxford require that all staff are offered equal opportunities within employment and that entry into employment with the University and progression within employment will be determined only by personal merit and the application of criteria which are related to the duties of each particular post and the relevant salary structure. In all cases, ability to perform the job will be the primary consideration. Subject to statutory provisions, no applicant or member of staff will be treated less favourably than another because of his or her sex, marital status, racial group, disability, or sexual orientation.

Where suitably qualified individuals are available, selection committees will contain at least one member of each sex.

12. All data supplied by applicants will be used only for the purposes of determining their suitability for the post and will be held in accordance with the principles of the Data Protection Act 1998 and the University's Data Protection Policy.

13. All reasonable interview expenses will be reimbursed. The appointment will be subject To satisfactory completion of a medical questionnaire.

14. Removal expenses and travelling expenses in connection with the move to Oxford of the successful candidate are generally paid in full in appropriate cases. Professional expenses of up to £6,500 also are available where appropriate to cover solicitors' and other costs in connection with a move. Further details are available on request.

AGE SCALE FOR UNIVERSITY LECTURERS

A: scale for university lecturers at age 30 or over.

B: scale for university lecturers appointed after 1 April 1983 at age 29 or under.

A £ B

1 August 2005

Age 30 24,352 Age 29

Age 31 25,565 Age 30

Age 32 26,470 Age 31

Age 33 27,929 Age 32

Age 34 28,829 Age 33

Age 35 30,002 Age 34

Age 36 31,274 Age 35

Age 37 32,490 Age 36

Age 38 33,646 Age 37

Age 39 35,254 Age 38

Age 40 36,959 Age 39

Age 41 and over 39,346 Age 40 and over
 Increments become payable from the beginning of the quarterly period next following that during which the university lecturer attains the qualifying age, except in the case of university lecturers appointed after 1 April 1983 at age 29 or under whose increments become payable on the first day of the month in which their birthday falls. (Those appointed under the age

of 29 join the scale at the bottom point and proceed by annual increments on the first day of the month in which their birthday falls.)

WD185-105
RWK/PJD
24.10.05

**SECTION III
UNIVERSITY OF OXFORD
BRASENOSE COLLEGE
FURTHER DETAILS CONCERNING THE
COLLEGE POST
OFFICIAL FELLOW AND TUTOR IN
MATHEMATICS**

A. The College

The Appointment

The College proposes to appoint an Official Fellow and Tutor in Mathematics if there is a suitable candidate. The appointment will be with effect from 1 October 2006, or as soon thereafter as possible. The post has become available, following the appointment of Professor Philip Maini to a Chair associated with a Fellowship at St John's College. The person appointed will be a member of the Governing Body of Brasenose College, and Hill hold the Fellowship under the terms of the College Statutes and By-Laws. Under the Collage Statutes the appointment is for a probationary period of one year and is renewable for fixed periods thereafter. The Fellowship is tenable only in conjunction with the University Lecturership in Mathematical Biology at the Mathematical Institute, currently advertised, and will terminate on the same date as that appointment. The details contained in this statement should be read in conjunction with the Further Particulars for the University Lecturership prepared by the Mathematical and Physical Sciences Division and Mathematical Institute.

Mathematics in Brasenose College

Brasenose is currently following a policy of strengthening sciences in the College, with the expansion of biochemistry, biology, physiology and medicine and is developing research clusters and research families in these areas.

The College's association over the past 15 years with a post in Mathematical Biology has fitted well with this commitment to the Life Sciences in general. It is hoped that the new Fellow will benefit from the opportunities for fruitful discussions, and possible collaboration, with colleagues in these subjects.

The other mathematics tutor at Brasenose is Professor Richard Haydon, whose research interests are in Functional Analysis and General Topology. Professor Haydon's teaching activities cover pure mathematics and non-physical applied mathematics.

The College intends to continue its current policy of admitting six undergraduates annually to read Mathematics (including the three- and four-year courses) and admits one or two per year in the associated joint schools of Mathematics & Computer Sciences, Mathematics & Philosophy and Mathematics & Statistics. It also admits graduates for the D.Phil in Mathematics and associated disciplines. Currently there are 20 undergraduates reading Mathematics, 1 reading Mathematics & Philosophy and 1 reading Mathematics & Statistics.

In addition we have 5 graduates reading for a D.Phil in Mathematics and associated disciplines.

Detailed information about Brasenose College may be found at <http://www.bnc.ox.ac.uk>

B. Terms and Conditions

General

The person appointed will be required to undertake jointly with the other Mathematics Tutors responsibility for the academic and tutorial progress of undergraduates reading Mathematics and the associated joint schools, as well as general pastoral oversight. Specific duties include the teaching of undergraduates, participation in the annual round of undergraduate and graduate admissions, in

access initiatives and Open Days, in setting and marking internal examinations, and in sharing in the general administration and pastoral care associated with the tutorial system. The person appointed will also be involved in advising Brasenose College graduate students in Mathematics.

Teaching

The appointee will be expected to teach mathematical methods and physical applied mathematics to first- and second-year Brasenose undergraduates. The College teaching stint for University Lecturers is 6 hours per week. It is hoped that this stint will be fulfilled by tutorials given to Brasenose undergraduates; but, if necessary, it may be discharged in part by exchanges with other Tutors. If the College teaching (of Brasenose undergraduates plus exchanges) falls below the average of six hours per week, teaching for other colleges must be sought to make up the shortfall and the proceeds paid to the College. An annual return of College teaching is required.

Administrative

As a Tutorial Fellow, the appointee will be expected to play a full part in the general life of the College, including attendance at College Meetings and College committees, the assumption of College Offices for limited periods and such other duties as are customarily undertaken by Tutorial Fellows. However, for the first five years of the appointment administrative duties would be kept to a minimum.

Summary

The College has a long-standing commitment to Mathematics and is now looking for a Tutor who will play a full and enthusiastic role in developing the subject and actively participate in the life and future development of the College.

Medical Questionnaire

The College and University appointments are subject to the satisfactory completion of a medical questionnaire.

Salary scale and retirement age

The College salary scale for joint appointments is related to age, and results in a combined (University plus College) scale that increases by annual increments to a joint maximum. The combined salary payable at selected ages is shown below:

Age Salary

30 £30661

35 £34965

40 £40202

45 and over £47078

The above scale applies to a fellow taking up office at the age of 30 years or more. The maximum point on the scale is reached at the age of 45. A fellow taking up office below the age of 30 joins at the lowest point of the joint scale and receives the standard annual increments, thus reaching the joint maximum before the age of 45. The retirement date is as specified in the University's Further Particulars. It should be noted that the College salary is purely age-related and will not be adjusted if the University salary is enhanced above the normal age point.

Accommodation and allowances

An Official Fellow of Brasenose College is entitled to either free single-occupancy residential accommodation in College (if available) or, if not resident in College, to a separate housing allowance (currently £5,801 p.a.). The allowance is taxable and pensionable. If not resident in College, then the Fellow will be provided with a teaching room, which may be shared, in College. Official Fellows are entitled to breakfast, luncheon and dinner at the Common Table free of charge. The College will assist the Fellow's academic work through an Academic Allowance, currently £1,484 p.a. Free health insurance for the Fellow and his or her family is offered (this

is a taxable benefit). In addition, the College operates a mortgage assistance scheme to help Fellows buy houses in or near Oxford and has an equity-sharing scheme for house purchase jointly by the Fellow and the College.

An entertainment allowance for offering hospitality to undergraduates and graduates of up to £445 p.a. is available.

Sabbatical Leave

The Fellowship carries entitlement to one term of sabbatical leave for every six of service with a proviso that not more than three consecutive terms of leave may be accumulated (such leave to be taken at a time consonant with the academic needs of the College).

Pension

The person appointed will be eligible to be a member of the Universities' Superannuation Scheme, for which scheme alone the College will pay employer's pension contribution.

Equal Opportunities

Brasenose College is committed to the principle of equality of opportunity in employment, and operates an Equal Opportunities Policy and Code of Practice.

The policy reads: 'The Statutes of the College require that the Governing Body elect to a Fellowship only the candidate whom it considers best qualified for the post with which the Fellowship is associated. The policy and practice of the College extend this requirement to all other appointments. Accordingly, entry into employment with the College and progression within employment will be determined only by personal merit and the

application of criteria which are related to the duties of each particular post and the relevant salary structure. Subject to statutory provisions, no applicant or member of staff will be treated less favourably than another because of his or her sex, marital status, or racial group'.

Selection Criteria

See page 2 of the further particulars for the University Lecturership.

Timetable for applications

Timetable and procedures for applications are as stated on the accompanying further particulars for the University Lecturership issued by the Mathematical and Physical Sciences Division. There will be a separate College interview for short-listed candidates. The College interview will be conducted by members of the Selection Committee, but Fellows of the College are also invited to attend. The College interview will be concerned particularly with selection criteria relating to the duties of a College Tutor. The College interview will be followed by a dinner at which Fellows of the College will be present. The dinner is an opportunity for candidates to get a sense of the atmosphere of the College and to meet some of their potential colleagues. It does not form part of the selection procedure and candidates should not feel obliged to attend if it is inconvenient or if they do not wish to do so.

The College can offer accommodation for candidates if required.

Contact with the College is via the College Secretary (tel: 01865 277823; fax: 01865 277822;

email: college.office@bnc.ox.ac.uk

**UNIVERSITY OF OXFORD
MATHEMATICAL AND PHYSICAL
SCIENCES DIVISION
MATHEMATICAL INSTITUTE IN
ASSOCIATION WITH BRASENOSE
COLLEGE UNIVERSITY
LECTURER IN MATHEMATICAL
BIOLOGY**

The Mathematical Institute proposes to appoint a University Lecturer in Mathematical Biology with effect from 1 October 2006 or as soon as possible thereafter. The successful candidate will be offered a Tutorial Fellowship by Brasenose College, under arrangements described in the further particulars. The combined University and College salary will be according to age on a scale up to £47,078 per annum.

The successful candidate will be expected to have a record demonstrating a high standard of research ability in mathematical biology consistent with the international standing of the Mathematical Institute. The appointee will also be expected to have the ability to teach effectively over a wide range of topics in the undergraduate mathematics syllabus at Oxford, not exclusively in the area of his or her research expertise, and including most topics in applied mathematics in the syllabus of the first or second year undergraduate mathematics course.

Further particulars, containing details of the application procedure and of the duties, may be obtained from The Administrative Assistant (Vacancies), Mathematical Institute, 24-29 St Giles', Oxford OX1 3LB, email vacancies@maths.ox.ac.uk, or by visiting

<http://www.maths.ox.ac.uk/notices/vacancies/>. The closing date for applications is 3 February 2006. Please quote reference number BK/05/007.

The University is an Equal Opportunities Employer

**PLAZAS DE PROFESORES EN EL
DEPARTAMENTO DE
ESTADÍSTICA DE LA
UNIVERSIDAD CARLOS III DE
MADRID**

El Departamento de Estadística ofrece plazas de profesores a pleno tiempo, comenzando el 1 de Octubre de 2006.

Los candidatos deben tener el título de doctor y experiencia en investigación en uno de los campos siguientes:

- Estadística,
- Econometría,
- Investigación Operativa

Se ofrecen tres tipos de plazas:

- Ayudantes doctores, por un periodo de dos años renovable.
- Profesores Visitantes con categoría de Profesor Titular de Universidad por un periodo de dos años, renovable. Estas plazas pueden transformarse después en plazas de Profesor Titular de Universidad.
- Profesores Visitantes por un periodo de un año, y nivel retributivo dependiendo de las cualificaciones de los candidatos.

Para más información respecto a la Universidad y el Departamento por favor consultar <http://www.uc3m.es> y <http://halweb.uc3m.es>,

respectivamente. Las solicitudes deben incluir:

- Una carta de solicitud indicando el tipo de plaza que se solicita,
- Un Curriculum Vitae,
- Dos cartas de referencia.

La fecha límite de recepción de solicitudes es el 15 de enero de 2006.

En el mes de Febrero y Marzo podrá solicitarse a los candidatos preseleccionados que visiten el Departamento e impartan un seminario. Las solicitudes deben enviarse a:

Prof. Daniel Peña
 Director del Departamento de Estadística
 Universidad Carlos III de Madrid
 C/Madrid, 126
 28903-Getafe (Madrid)

**READER/ SENIOR LECTURER /
 LECTURER IN STATISTICS
 DURHAM UNIVERSITY (UK)**

We have a job available at Durham University, which we believe may very explicitly be of interest to Bayesian Statisticians:

Closing Date: 15 February 2006 - Job Reference 1154

Applications are invited for a post in the Statistics Group, within the Department of Mathematical Sciences, from 1 October 2006 or such date as may be arranged. We welcome applicants with research interests in any area of Statistics.

Durham University is one of the UK's leading universities, with a strong commitment to both research and teaching. The Department of Mathematical Sciences has an active programme of internationally recognized research in a broad range of areas, and runs several popular degree programmes with a very high quality student intake. The Department currently has 53 academic staff, conducting research in Pure Mathematics, Applied Mathematics and Statistics/Probability/OR. The Statistics Group has 11 academic staff and 15 postgraduate students. There is a strong and active research environment, with many visitors and seminars, and fully supported by excellent computer and library facilities.

The successful candidate will have an excellent research record in an area of Statistics, appropriate to the level for which the candidate applies. Preference may be given to candidates with research interests which match existing areas of expertise in the Statistics Group, which include Bayesian statistics, with special focus on large-scale applications, and foundations and

applications of statistics. The successful candidate will be expected to make a substantial commitment to the research activities of the Statistics Group, and to undertake teaching and administrative duties as assigned by the Board of Studies of Mathematical Sciences.

See <http://www.maths.dur.ac.uk/> for more details about the Department, and <http://www.maths.dur.ac.uk/stats/> for information about the Statistics Group.

Informal enquiries may be made to Professor M. Goldstein (telephone: +44(0)191 3343065, email: michael.goldstein@durham.ac.uk) or to Professor F.P.A. Coolen (telephone: +44(0)191 3343048, email: frank.coolen@durham.ac.uk).

Further particulars about the vacancy may be obtained from the departmental vacancies web page <http://www.maths.dur.ac.uk/jobs/>. We request that you apply for this vacancy using the on-line application form, to be found at <https://jobs.dur.ac.uk>. Upon applying, you should indicate the level (Reader, Senior Lecturer or Lecturer) for which you wish to be considered. If you prefer, we can post an application pack to you, if you telephone our answering service on +44(0)191 3346499.

In either case, quote job reference 1154.

Applications should be sent to: The Recruitment Team, Durham University, University Office, Durham, DH1 3HP. Applications (two copies or one for overseas applicants) should be submitted, quoting the job reference and including CV, supporting letter of application and the names of three referees, by the closing date of 15 February 2006.

PUBLICACIONES Y SOFTWARE

ESTADÍSTICA EN SUPUESTOS DE ÍNDOLE LABORAL, SOCIAL, JURÍDICA O ECONÓMICA

Autores: Esteban Navarrete Álvarez, M^a Jesús Rosales Moreno, M^a Dolores Huete Morales, Maravillas Vargas Jiménez y Francisco Abad Montes. Grupo Editorial Universitario, 2005. Tfno: 958800580
ISBN 84-8491-552-2

Libros de Estadística de propósito general para estudios no específicos de Estadística (Economía, Ingeniería, Biología, Ciencias Sociales, etc.) se han escrito muchos tanto a nivel teórico como de resolución de problemas.

El presente libro pretende cubrir un hueco en relación a este punto: se trata de un libro de Supuestos de índole **Laboral, Social, Jurídica o Económica** que se van a resolver utilizando técnicas estadísticas a un nivel comprensible para profesionales o estudiantes de disciplinas mal llamadas de "letras". Se trata de una colección de supuestos de la vida real con datos reales.

Este libro se ha escrito en el marco del PID de la UGR "Adaptación de la enseñanza de la Estadística en la Diplomatura de Relaciones Laborales al ámbito Social/Laboral/Jurídico".

DECOMPOSITION TECHNIQUES IN MATHEMATICAL PROGRAMMING. ENGINEERING AND SCIENCE APPLICATIONS

A. Conejo, E. Castillo, R. Mínguez and R. García-Bertrand. Decomposition Techniques in Mathematical Programming. Engineering and Science Applications, Springer, 2006. Saldrá a finales del 2005. Es un libro de investigación Operativa.

PUBLICACIONES EDITADAS POR EL INE EN OCTUBRE DE 2005

Actuaciones de la Oficina del Censo Electoral. Referéndum sobre la Constitución Europea 2005
152 páginas. 9,50 €IVA incluido

Actuaciones de la Oficina del Censo Electoral. Elecciones al Parlamento Vasco 2005
54 páginas. 3,50 €IVA incluido

Encuesta Industrial de Productos 2004
378 páginas. 17 €IVA incluido

INEbase. Septiembre 2005

CD-Rom. Precio del ejemplar: 17,28 €IVA incluido. Suscripción anual: 151,14 € IVA incluido

Contenido:

- Boletín Mensual de Estadística. Número 164/165 - Agosto/Septiembre 2005
- Encuesta continua de presupuestos familiares. Año 2003
- Encuesta continua de presupuestos familiares 2003. Cuarto trimestre
- Profesionales sanitarios colegiados 2004
- Encuesta anual de coste laboral 2004
- ETCL. Serie 1º trimestre 2000-2º trimestre 2005
- Índice de Coste Laboral Armonizado ICLA. Serie 1º trimestre 2000-2º trimestre 2005
- Contabilidad nacional trimestral de España, Base 2000. 2º trimestre 2005
- Movimiento natural de la población 2003

Boletín Mensual de Estadística. Número 164/165. Agosto/Septiembre 2005.
348 páginas, incluye CD-Rom.
Precio del ejemplar: 17 € IVA incluido.
Suscripción anual: 135,50 €IVA incluido

1. Reseña de algunas publicaciones

Encuesta Industrial de Productos 2004

La publicación presenta los resultados correspondientes al año 2004 y siguiendo el Reglamento PROD-COM (PRODUCCIÓN COMUNITARIA) relativo a la armonización de las estadísticas sobre la producción industrial en los países de la Unión Europea. Las tablas incluidas recogen una valoración individualizada de los principales productos industriales españoles, así como una información detallada para comunidades autónomas y 14 grandes grupos de actividades.

378 páginas. 17 €IVA incluido

Encuesta trimestral de Coste Laboral.

ETCL. Serie 1º trimestre 2000-2º trimestre 2005

La ETCL forma parte de los euroindicadores que la Oficina Estadística de la Unión Europea exige a los países del área euro. En la publicación se ofrecen datos sobre el nivel y evolución de los costes del factor trabajo, tanto en lo que se refiere a Costes Salariales como a otros costes, por trabajador y por hora trabajada. También permite hacer un seguimiento del tiempo de trabajo y del tiempo no trabajado con objeto de obtener estimaciones de la jornada media efectuada.

Publicación incluida en INEbase. Septiembre 2005

2. Próximos cursos que organiza la Escuela de Estadística de las Administraciones Públicas

La Escuela de Estadística de las Administraciones Públicas (EEAP), dependiente del INE, tiene por objetivo la formación en Estadística del personal de las Administraciones Públicas y otros colectivos sociales que así lo requieran. Los cursos que imparte la EEAP versan sobre encuestas y estadísticas que realiza el INE, sobre técnicas estadísticas, sobre el marco legal de la función estadística pública, y otros temas de interés.

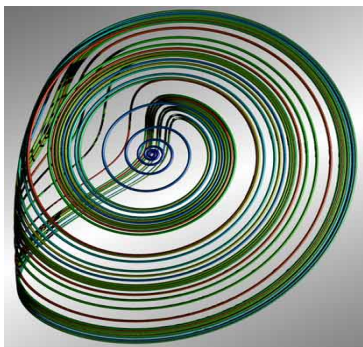
El programa para el mes de noviembre es el siguiente:

15, 16 y 17 de noviembre curso sobre Elaboración de Indicadores. Indicadores económicos e Indicadores Sociales. Análisis para conocer el seguimiento de la coyuntura.

Toda la información sobre la Escuela de Estadística en <http://www.ine.es/ine/eeaapp/escuela.htm>

MASTERS, CURSOS Y SEMINARIOS

JORNADA DE MATEMÁTICAS Y CIENCIAS DE LA SALUD (LA FUNDACIÓN ESPAÑOLA PARA LA CIENCIA Y LA TECNOLOGÍA)



Jueves, 15 de diciembre, Aula "Miguel de Guzmán", Facultad de Matemáticas (UCM)

PROGRAMA

11:00 h. Palabras de recepción

J. I. Díaz Díaz (UCM, FECYT y Coordinador de la Jornada)

J. Tejada Cazorla (Decano de la Facultad de Matemáticas de la UCM)

J. M. Báez (Director de Programas de la FECYT)

11:10-12:10 Simulación numérica en odontología y ortodoncia

Problemática: D. Suárez Quintanilla (Dpto. Estomatología, Univ. Santiago Compostela).

Tratamiento matemático: J. M. Viaño Rey
(Dpto. Matemática Aplicada, Univ. Santiago Compostela)

12:10-13:10 Modelización dinámica de hernias inguinales

Problemática: M. López Cano (Hospital de la Vall d'Hebrón de Barcelona)

Tratamiento matemático: A. Susín Sánchez
(Dpto. Matemática Aplicada 1, Univ. Politècnica Catalunya)

13:10-14:10 Desarrollo de un modelo para el diagnóstico del cáncer de mama.

Problemática: V. Pedraza Muriel (Facultad de Medicina, Univ. Granada)

Tratamiento matemático: F. J. Girón González-Torre (Dpto. Estadística e Investigación Operativa, Univ. Málaga)

15:45-16:45 Estereología: Una ciencia para cuantificar estructuras geométricas en Biomedicina y Ciencias de Materiales.

Problemática: X. Gual Arnau (Hospital la Fe de Valencia)

Tratamiento matemático: L. Cruz Orive
(Dpto. Matemáticas, Estadística y Computación, Univ. Cantabria)

16:45-17:45 Crecimiento tumoral: Dinámica y terapia anticancerígena basada en la inflamación antitumoral

Problemática: S. Albertos Rubio (UCM)

Tratamiento matemático: A. Brú Espino
(Dept. Matemática Aplicada, UCM)

17:45-18:45 Mesa redonda: Otras interfaces de las Ciencias de la Salud y las Matemáticas

E. Castañeda Díaz (CDTI. Ministerio de Industria, Turismo y Comercio)

M. Doblaré Castellano (Universidad de Zaragoza)

M. A. Herrero García (Departamento de Matemática Aplicada, UCM)

J. M. Sol (Director de Estadística, Laboratorios Pfizer)

A. Zapata González (I. S. Carlos III)

18.45 h Palabras de clausura

Plaza de Ciencias, 3
Ciudad Universitaria
28040 Madrid

CURSOS DE FORMACIÓN CONTINUA EN EL DEPARTAMENTO DE ESTADÍSTICA E INVESTIGACIÓN OPERATIVA DE LA UNIVERSIDAD DE SANTIAGO DE COMPOSTELA

*MODELOS DE REGRESIÓN (12/12/2005 - 23/12/2005)

*ANÁLISIS DE DATOS CATEGÓRICOS (12/12/2005 - 23/12/2005)

*TÉCNICAS DE REMUESTREO (09/01/2006 - 27/01/2006)

*INTRODUCCIÓN A LA GENÉTICA ESTADÍSTICA (09/01/2006 - 20/01/2006)

Más información en
http://eio.usc.es/pub/master_bio,
master_bio@usc.es.

SEGUNDA ESCUELA DE VERANO EN PROBABILIDADES IMPRECISAS Madrid, 24-28 Julio, 2006



La segunda escuela de verano en Probabilidades Imprecisas se celebrará en el edificio de la Fundación Rey Juan Carlos, en Madrid, entre los días 24 y 28 de Julio de 2006. El objetivo de la escuela es realizar una introducción en profundidad a la teoría y las aplicaciones de las probabilidades imprecisas. Los temas que se tratarán serán:

- The Imprecise Dirichlet Model (Jean-Marc Bernard, Université Paris V).
- Predictive inference with imprecise probabilities (Gert de Cooman, Ghent University).
- Non-additive measures and applications on decision theory

(Jean-Yves Jaffray, Université Paris VI).

- Coherent lower previsions and their behavioural interpretation (Enrique Miranda, Rey Juan Carlos University).
- Knowledge discovery from data sets under weak assumptions: the case of prior ignorance and incomplete data (Marco Zaffalon, IDSIA).

La escuela está organizada por la Sociedad Internacional en Probabilidades Imprecisas y sus Aplicaciones (SIPTA) y por el Grupo de Estadística y Ciencias de la Decisión (GECD) de la Universidad Rey Juan Carlos. Toda la información referente a la escuela de verano puede encontrarse en <http://bayes.escet.urjc.es/~emiranda/sipta>.

La fecha límite para registrarse en la escuela de verano es el 31 de Marzo de 2006. Aquéllos interesados en participar deberán rellenar el formulario que aparece en la página web <http://bayes.escet.urjc.es/~emiranda/sipta>, adjuntando un breve currículum (no superior a 2 páginas). La notificación de la aceptación se efectuará poco después de dicha fecha límite.

Si tiene cualquier duda o comentario, por favor póngase en contacto con Enrique Miranda, en la dirección enrique.miranda@urjc.es

III JORNADAS CIENTÍFICAS DE LAS SOCIEDADES ESPAÑOLAS DE EPIDEMIOLOGÍA Y BIOMETRÍA: GUDO 3.

<http://www.uv.es/~gudo/>
Valencia, 22 y 23 de Junio de 2006

Por tercera vez, las Sociedades Españolas de Epidemiología y Biometría organizan las Jornadas Científicas Conjuntas de encuentro de ambas sociedades, que se celebrarán en Valencia los días 22 y 23 de Junio de 2006.

El formato de las jornadas admite presentaciones (oral o póster) cuyos contenidos estén relacionados con todos aquellos aspectos que, desde cualquiera de los dos campos, biometría y epidemiología, pongan en relación ambas disciplinas, muy particularmente aquellos que muestren su aplicación a situaciones reales.

En los dos días previos a las jornadas se impartirá el curso:

"Introducción al análisis de la supervivencia: ¿Qué necesitan los profesionales sanitarios? ¿Qué aportan los bioestadísticos?". Para más detalles, fechas límite, inscripción, alojamiento, etc., consultar la página web del congreso.

Os esperamos en las próximas jornadas GUDO, El Comité Organizador.

ELECTRONIC VOTING 2006

August, 2nd to 4th 2006
Bregenz, Austria at Lake Constance

Under the auspices of the Secretary General of the Council of Europe, Mr. Terry DAVIS ESF: European Science Foundation (ESF) within the project TED International Federation of Integrated Processing Working Group 8.5 Information Systems in Public Administration Vienna University of Economics and Business Administration

Electronic submissions shall be made through the platform provided at www.e-voting.cc/topics/Conference, which serves as an online-system for the whole review

Deadlines

Draft of the paper.....24th February 2006
Notification of acceptance 3rd April 2006
Receipt of the final paper.....28th April 2006

CONGRESOS

2005

DICIEMBRE

- 4-7 INFORMS WINTER SIMULATION CONFERENCE, Orlando, USA.
- 4-7 APIEMS 05: 6TH ASIA PACIFIC INDUSTRIAL ENGINEERING AND MANAGEMENT CONFERENCE, Manila, Philippines.
- 19-21 ICORD V: INTERNATIONAL CONFERENCE ON OPERATIONAL RESEARCH FOR DEVELOPMENT, Jamshedpur, India.
- *27-29 ICORAID-2005-ORSI:INTERNATIONAL CONFERENCE ON OPERATIONS RESEARCH APPLICATIONS IN INFRASTRUCTURE DEVELOPMENT IN CONJUNCTION WITH 2005 ANNUAL CONVENTION OF OPERATIONAL RESEARCH SOCIETY OF INDIA, Bangalore, India.

2006

ENERO

- *11-13 ISBIS 5.V SIMPOSIUM INTERNACIONAL DE ESTADÍSTICA INDUSTRIAL Y NEGOCIOS, Lima (Perú). Inf: www.stat.vt.edu/isbis5, aferrer@eio.upv.es
- *16-18 STATISTICS FOR BIOLOGICAL NETWORKS, Eindhoven, The Netherlands. Inf: <http://euridice.tue.nl/~frigat/sbn.htm>
- 16-18 APORS 2006: 7TH CONFERENCE OF THE ASSOCIATION OF ASIA-PACIFIC OPERATIONAL RESEARCH SOCIETIES, Manila, Philippines

FEBRERO

- *3 GOR-AG REVENUE MANAGEMENT AND DYNAMIC PRICING: SITZUNG DER ARBEIRSGRUPPE, Berlin, Germany.
- *8-10 MATHMOD VIENNA: 5TH IMACS SYMPOSIUM ON MATHEMATICAL MODELLING, Viena, Austria.
- 9-11 WKOR 2006: TAGUNG DER WISSENSCHAFTLICHEN KOMMISSION "OPERATIONS RESEARCH" DES VERBANDES DER HOCHSCHULLERHRER FÜR BWL IM RAHMEN DER 500 JAHR-FEIER DER EUROPA UNIVERSITÄT VIADRINA, Frankfurt/Oder, Germany
- *20-22 GOR-AG WIRTSCHAFTSINFOMATIK: SITZUNG DER ARBEITSGRUPPE, Passau, Germany.

- *20-24 14TH INTERNATIONAL WORKING SEMINAR ON PRODUCTION ECONOMICS, Innsbruck, Austria.
- *22-23 ILS 2006: SECOND INTERNATIONAL INTELLIGENT LOGISTICS SYSTEMS CONFERENCE, Port of Brisbane, Australia.
- *24 GOR-AG OR IM GESUNDHEITSWESEN: SITZUNG DER ARBEITSGRUPPE, Münster, Germany.

MARZO

- *6-7 GOR-AGS ENTSCHEIDUNGSTHEORIE UND –PRAXIS UND FUZZY-SYSTEME, NEURONALE NETZE UND KÜNSTLICHE INTELLIGENZ: SITZUNG DER ARBEITSGRUPPEN, Kaiserslautern, Germany.
- *8-10 GfKI 2006: 30. JAHRESTAGUNG DER GESELLSCHAFT FÜR KLASSIFIKATION, ADVANCES IN DATA ANALYSIS, Berlin, Germany.
- *9-10 GOR-AG LOGISTIK UND VERKEHR :SITZUNG DER ARBEITSGRUPPE, Bonn, Germany.
- *16-18 3RD ESICUP MEETING, THE EURO SPECIAL INTEREST GROUP ON CUTTING AND PACKING, Porto, Portugal. Inf: www.isep.ipp.pt/esicup-3rdMeeting
- 20-24 CONFERENCE ON STOCHASTICS IN SCIENCE. In Honor of Ole E. Barndorff-Nielsen's 71st birthday. CIMAT, Guanajuato, Mexico. Inf: www.cimat.mx/Eventos/oebn-conference, pabreu@cimat.mx
- *26-29 EBEB 8- EIGHT BRAZILIAN MEETING ON BAYESIAN STATISTICS IN HONOR OF HELIO MIGON, Colonna Park hotel, Buzios, Rio de Janeiro, Brazil. Inf: <http://www.im.ufrj.br/eb8/>

MAYO

- *11 GOR-AG OR IM UMWELTSCHUTZ: SITZUNG DER ARBEITSGRUPPE, Berlin, Germany.
- 15-17 ILS 06: INTERNATIONAL CONFERENCE ON INFORMATION SYSTEMS, LOGISTICS AND SUPPLY CHAIN, Lyon, France.
- 15-19 XXIX CONGRESO NACIONAL DE ESTADÍSTICA E INVESTIGACIÓN OPERATIVA, Tenerife. Inf: www.seio2006.ull.es.
- 17-19 12TH IFAC SYMPOSIUM ON INFORMATION CONTROL PROBLEMS IN MANUFACTURING INCOM'2006, 2006 à Saint Etienne France. Inf: www.emse.fr/incom06/call_for_papers.html
- 28-31 SSC-2006: ANNUAL MEETING OF THE STATISTICAL SOCIETY OF CANADA, London, Ontario, Canada. Inf: bellhouse@stats.uwo.ca

JUNIO

- *1-7 VALENCIA / ISBA EIGHTH WORLD MEETING ON BAYESIAN STATISTICS. Benidorm (Alicante), Spain). Inf: <http://www.uv.es/valenciameeting>
- 3-7 SECOND MADRID CONFERENCE ON QUEUEING THEORY, Faculty of Informatics, Complutense University of Madrid. Inf: mc_qt@mat.ucm.es, <http://www.mat.ucm.es/~mcqt/confe06/conf06.html>
- 5-9 PROBASTAT 2006 FIFTH INTERNATIONAL CONFERENCE ON PROBABILITY and STATISTICS, Smolenice Castle, Slovakia. Inf: <http://aiolos.um.savba.sk/~viktor/probastat.html>
- 8-11 XIX REUNIÓN ANUAL DE LA SOCIEDAD DE ECONOMÍA APLICADA ASEPELT ESPAÑA. Badajoz. Inf: <http://asepelt2005.eweb.unex.es/>
- *18 APMOD 2006 WORKSHOP: APPLIED MATHEMATICAL PROGRAMMING AND MODELLING, Madrid, Spain.
- *19-21 APMOD 2006 CONFERENCE: APPLIED MATHEMATICAL PROGRAMMING AND MODELLING, Madrid, Spain. Inf: <http://www.apmod.org.uk>
- *19-21 VIII APPLIED MATHEMATICAL PROGRAMING AND MODELING, Universidades Rey Juan Carlos y Pontificia Comillas de Madrid. Inf: <http://www.apmod.org.uk>.
- *20-23 36TH INTERNATIONAL CONFERENCE ON COMPUTERS AND INDUSTRIAL ENGINEERING, Taipei, Taiwan.
- *22-23 III JORNADAS CIENTÍFICAS DE LAS SOCIEDADES ESPAÑOLAS DE EPIDEMIOLOGÍA Y BIOMETRÍA: GUDO 3, Valencia. Inf: <http://www.uv.es/~gudo/>
- 25-28 INFORMS INTERNATIONAL HONG KONG 2006, Hong Kong, China
- *28-30 INTERNATIONAL CONFERENCE ON MATHEMATICAL AND STATISTICAL MODELING IN HONOR OF ENRIQUE CASTILLO, University of Castilla la Mancha, Ciudad Real, Spain. Inf: <http://www.uclm.es/actividades0506/congresos/icmsm2006/homepage.htm>

JULIO

- *2 PRE-WORKSHOP TUTORIAL 21ST IWSM. INTERNATIONAL WORKSHOP ON STATISTICAL MODELLING Galway, Ireland. Inf: <http://www.statmod.org>
- 2-5 EURO XXI CONFERENCE 2006, Reykjavik, Iceland.
- *3-7 21ST IWSM. INTERNATIONAL WORKSHOP ON STATISTICAL MODELLING Galway, Ireland. Inf: <http://www.nuigalway.ie/maths/IWSM2006/> .
- 2-7 ICOTS-7: SEVENTH INTERNATIONAL CONFERENCE ON TEACHING STATISTICS, to be held in Salvador, Bahía, Brazil. Inf: <http://www.maths.aotago.ac.bz/icots7>, batanero@ugr.es

*10-12 6TH MEETING ON GAME THEORY AND PRACTICE, Mediterranean Agro. Ins, Zaragoza (Spain). Inf: Fioravante Patrone patrone@diptem.unige.it, <http://www.iamz.ciheam.org/GTP2006/index.htm>

16-21 XIIIRD INTERNATIONAL BIOMETRIC CONFERENCE, to be held in Montreal, Quebec, Canada. Inf: <http://www.tibs.org>

AGOSTO

*2-4 ELECTRONIC VOTING 2006, Bregenz, Austria at Lake Constante. Inf: www.e-voting.cc/topics/Conference

6-10 2006 JOINT STATISTICAL MEETINGS, to be held in Seattle, Washington, USA. Inf: www.amstat.org/meetings/index.cfm?fuseaction=main, jsm@amstat.org

*18-2 ESI 2006:EURO SUMMER INSTITUTE ON OPTIMIZATION CHALLENGES IN ENGINEERING: METHODS, SOFTWARE AND APPLICATIONS, Wittenberg, Germany.

22-30 INTERNATIONAL CONGRESS OF MATHEMATICIANS MADRID 2006 (ICM-2006). Inf: <http://www.icm2006.org>

28-1 17TH COMPSTAT SYMPOSIUM OF THE INTERNATIONAL ASSOCIATION FOR STATISTICAL COMPUTING (COMPSTAT 2006), Rome. Inf: <http://w3.uniroma1.it/compstat2006/>

*28-8 CIMPA School on Optimization and Control, Castro Urdiales (Cantabria, Spain). Inf: Eduardo Casas eduardo.casas@unican.es, <http://www.cimpa-icpam.org/index.php>

SEPTIEMBRE

*1-4 MATHEMATICAL NEUROSCIENCE, Sant Julià de Lòria (Andorra). Inf: Manuel Castellet CMathNeuroscience@crm.es, <http://www.crm.es/CMathNeuroscience/>

*1-4 TOPICS IN MATHEMATICAL ANALYSIS AND GRAPH THEORY, Belgrade (Serbia and Montenegro). Inf: Milan Merkle emerkle@kondor.etf.bg.ac.yu, <http://magt.etf.bg.ac.yu/>

6-8 OR 2006 :JAHRESTAGUNG 2006 DER GOR, Karlsruhe, Germany.

*14-17 CONFERENCE ON ROUTING AND LOCATION 2006 (CORAL 2006), Puerto de la Cruz (Tenerife, Spain). Inf: Juan José Salazar jjsalaza@ull.es, <http://webpages.ull.es/users/saderyl/>

*15-16 HICL 2006: HAMBURG INTERNATIONAL CONFERENCE OF LOGISTICS, Hamburg, Germany.

*28-29 INTERNATIONAL WORKSHOP ON SPATIO-TEMPORAL MODELLING (METMA3), Pamplona. Inf: <http://www.unavarra.es/metma3/>, metma3@unavarra.es

NOVIEMBRE

5-8 INFORMS ANNUAL MEETING 2006, Pittsburgh, USA.

2007

JUNIO

18-21 INTERNATIONAL CONFERENCE ON ESTABLISHMENT SURVEYS III, in Montreal, Quebec, Canada. Inf: ices3@census.gov.

JULIO

8-11 INFORMS INTERNATIONAL PUERTO RICO 2007, Rio Grande, Puerto Rico.

29-2 2007 JOINT STATISTICAL MEETINGS, to be held in Salk Lake City, Utah, USA. Inf: www.amstat.org/meetings/index.cfm?fuseaction=main, jsm@amstat.org.

AGOSTO

22-29 INTERNATIONAL STATISTICAL INSTITUTE (ISI) to be held in Lisboa, PortugalS MADRID 2006 (ICM-2006). Inf: isi@cbs.nl

2008

AGOSTO

3-7 2008 JOINT STATISTICAL MEETINGS, to be held in Denver, Colorado, USA. Inf: www.amstat.org/meetings/index.cfm?fuseaction=main, jsm@amstat.org

AGOSTO

2-6 2009 JOINT STATISTICAL MEETING to be held in Washington, D.C., USA. Inf: jsm@amstat.org, <http://www.amstat.org/meetings/index.cfm?fuseaction=main>.

16-22 INTERNATIONAL STATISTICAL INSTITUTE (ISI) 57th BIENNIAL SESSION, to be held in Durban, South Africa. Inf: isi@cbs.nl

ALTAS Y BAJAS DE SOCIOS

ALTAS MES DE OCTUBRE

Aurea Grané Chávez
Alejandro Rabasa Dolado
María Gómez Rúa
Silvia María Lorenzo Freire
Juan José Vidal Puga
Agustín Pérez Martín

ALTAS MES DE NOVIEMBRE

Ana E. García Sipols
Silvia María Miquel Fernández

BAJAS MES DE SEPTIEMBRE

Alberto Rodríguez Casal
Francisco Javier Nogales Martín

BAJAS MES DE OCTUBRE

Susana Ibargüen Albentosa

BAJAS MES DE NOVIEMBRE

Blanca María Pérez Gladish
M^a Del Carmen Martínez Blázquez
Antonio Aznar Grasa
Carlos Abellán Andrés
Alfredo Goyanes Vilariño

Corresponsales:

Luz Braña Rey
luzmari@ine.es
Instituto Nacional de Estadística

Ana Justel
ana.justel@uam.es
Universidad Autónoma de Madrid

Isabel Molina Peralta
imolina@est-econ.uc3m.es
Universidad Carlos III de Madrid

Javier Yañez Gestoso
jayage@mat.ucm.es
Universidad Complutense de Madrid

Francisco Callealta Barroso
franciscoj.callealta@uah.es
Universidad de Alcalá de Henares

Fernando Reche Lorite
freche@ual.es
Universidad de Almería

Luis Antonio Sarabia Peinador
lsarabia@ubu.es
Universidad de Burgos

Araceli Tuerdo
tueroma@unican.es
Universidad de Cantabria

Juan Luis González Caballero
juanluis.gonzalez@uca.es
Universidad de Cádiz

José María Caridad y Ocerín
ccjm@uco.es
Universidad de Córdoba

Miguel González Velasco
mvelasco@unex.es
Universidad de Extremadura

Rocío Raya Miranda
rraya@ugr.es
Universidad de Granada
Beatriz Hernández Jiménez
beatriz.hernandez@dmate.uhu.es
Universidad de Huelva

Emilio Lozano Aguilera
elozano@ujaen.es
Universidad de Jaén

David Alcaide López de Pablo
dalcaide@ull.es
Universidad de la Laguna

Juan Carlos Fillat Ballesteros
juan-carlos.fillat@dmc.unirioja.es
Universidad de la Rioja

María Eva Vallejo Pascual
ddeevp@unileon.es
Universidad de León

Lázaro Cánovas
lcanovas@um.es
Universidad de Murcia

Carmen Morcillo Aixelá
aixela@uma.es
Universidad de Málaga

Susana Montes Rodríguez
montes@uniovi.es
Universidad de Oviedo

María Teresa Santos Martín
maysam@gugu.usal.es
Universidad de Salamanca

Antonio Beato Moreno
beato@us.es
Universidad de Sevilla

M^a Cruz Valsero Blanco
mcruz@eio.uva.es
Universidad de Valladolid

Fernando Plo
fplo@unizar.es
Universidad de Zaragoza

Marc Almiñana Alemany
marc@umh.es
Universidad Miguel Hernández

María del Pilar Moreno Navarro
mpmornav@upo.es
Universidad Pablo de Olavide

Ana Fernández Militino
militino@unavarra.es
Universidad Pública de Navarra
Antonio Alonso Ayuso
antonio.alonso@urjc.es
Universidad Rey Juan Carlos

José Antonio Vilar Fernández
eijoseba@udc.es
Universidade da Coruña

María José Lombardía Cortiña
mjoselc@usc.es
Universidade de Santiago de Compostela

Alberto Rodríguez Casal
arodriguez@uvigo.es
Universidade de Vigo

Jordi Ocaña
jocana@ub.edu
Universitat de Barcelona

Vera Pawlowsky-Glahn
vera.pawlowsky@ima.udg.es
Universitat de Girona

Carles Capdevila Marques
ccm@matematica.udl.es
Universitat de Lleida

José Domingo Bermúdez Edo
Jose.D.Bermudez@uv.es
Universitat de Valencia

Pilar Muñoz
pilar.munoz@upc.edu
Universitat Politècnica de Catalunya

Javier Alcaraz Soria
jalcaraz@eio.upv.es
Universitat Politècnica de Valencia

Dolores Romero Morales
Dolores.Romero-Morales@said-business-school.oxford.ac.uk
University of Oxford