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Næste nummer af "MEDDELELSER" udkommer 3. september 2007.
Bidrag skal være redakteren i hænde senest **den 24. august kl. 12.00.**

**Deadlines i år 2007**

| | MEDDELELSER udkommer | Frist for indlevering af bidrag: |
|---|---|---|
| 6: | 3. september | 24. august |
| 7: | 1. oktober | 21. september |
| 8: | 5. november | 26. oktober |
| 9: | 3. december | 23. november |

# MEDDELELSER

Dansk Selskab for Teoretisk Statistik

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## Selskabets bestyrelse:

| | |
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| **Redaktør:**<br>Marc Andersen<br>Livjægergade 41, 1.tv.<br>2100 København Ø | Tlf: 61 77 72 48<br>e-mail: red@dsts.dk |

Selskabets www-adresse: Http://www.dsts.dk
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Bidrag i elektronisk form modtages helst i et af formateren: Word, PDF, HTML eller ASCII. Bidrag sendes til redaktøren, gerne per e-mail red@dsts.dk

**Annoncering af stillinger er kr. 500 pr. side. Indstik, der ønskes sendt i konvolut sammen med Meddelelser, kr. 1500 pr. standard A4 side.**

# Kontingentindbetaling

Kontingent til DSTS vil blive udsendt i juli/august. Bestyrelsen har valgt at bruge Betalingsservice (BS), hvilket skulle gøre indbetaling og administrationen nemmere.

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# Kommende To-dagesmøder

| | |
|---|---|
| Efterår 2007 | DTU |
| Forår 2008 | Nordisk Møde i Baltiske Lande |
| Efterår 2008 | Odense |

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# The 5th International Conference on Levy Processes

The 5th International Conference on Levy Processes: Theory and Applications at the University of Copenhagen, August 13 - August 17, 2007.

The Conference is preceded by a Satellite Summer school in Sandbjerg, Denmark, August 9 - August 12, 2007.

For more information about both events, see here

http://www.math.ku.dk/conf/levy2007/levy.html

**Biostatistisk Afdeling**
**Københavns Universitet**

24. maj 2007

**Tirsdag d. 12. juni 2007, lokale 5.0.22 (bemærk ugedag).**

Seminarerne afholdes kl. 15.15 på det gamle Kommunehospital, Øster Farimagsgade 5, opgang B. Der serveres te i Biostatistisk Afdelings bibliotek (opgang B, 2. sal) en halv time før.

## Predictive Accuracy - Is it enough?

John Maindonald
Australian National University

In a 2001 paper in Statistical Science, Breiman argued for the wider use of "algorithmic" models that "treat the data mechanism as unknown". In Breiman's account, tree-based models and neural nets might be examples of such models. Breiman criticised a statistical culture that, as he saw it, has almost exclusively used models that assume a stochastic "data mechanism" that is thought to describe underlying scientific processes. Predictive accuracy, rather than any attempt to model the stochastic mechanisms, should be the primary concern.

Assessment of a predictive accuracy that is relevant to practical use of a fitted model is not however a straightforward matter. There must be a model for the mechanisms that generated the data, and a model for the mode of use of the data. Only in the most idealized situation are these the same.

In part, the argument is for automation of statistical analysis, and for openness to modeling approaches whose use has, to a large extent, been developed outside of the statistical community. This is fair and reasonable, providing only that the usefulness of what may have been achieved is carefully and stringently assessed.

There can be large potential benefits from interaction between traditions that bring very different perspectives to statistical analysis. This talk will canvass issues that seem important in the interaction between those who bring a more conventional modelling approach to statistical analysis, and those whose focus is on something akin to Breiman's "algorithmic models". There are challenging and interesting questions about model comparison, especially for models with a complex (non-independent) error structure.

**Mandag d. 25. juni 2007. lokale 5.0.22.**

## Regression in Relative Survival

Maja Pohar Perme
Department of Biomedical Informatics, University of Ljubljana, Slovenia

Relative survival methods use the population mortality tables to give information about cause specific survival when the patients' causes of death are unknown. When we want to model the dependence of the observed hazard on measured covariates while correcting for population differences, we need to assume some form of relation between the observed and population hazard.

This assumption influences the fit of the model and this influence is difficult, or even impossible, to distinguish from the influence of assumptions about the effect of covariates. We have recently introduced a method that solves this problem, and in this talk I will briefly review our approach. The focus of the talk will then turn to the additive model, which is by far the most frequently used model in the field. However, despite its popularity, no goodness-of-fit methods exist for checking its assumptions. We define a new kind of residuals akin to Schoenfeld residuals that can be used for both graphical and formal testing of the proportional hazards assumption. However, these methods can be affected by other assumptions made in the model, in particular by its postulated fully parametric form. We relax this assumption by introducing a new fitting approach that uses the EM algorithm. The approach allows the baseline hazard to be left unspecified as well as enables other extensions used for the Cox model to be used in the relative survival context.

Per Kragh Andersen

# Danish Graduate School in Biostatistics

## 1 PhD Scholarship available

**The Danish Graduate School in Biostatistics** is pleased to announce that one PhD-scholarship will be awarded by the end of 2007. The PhD Scholarship is co-financed between The Danish Agency for Science, Technology and Innovation and specific institutions in the graduate school.

Applications for the 3-year scholarship are invited from candidates with a master degree in statistics or corresponding background to one of the following projects:

Dept. of Biostatistics and the Research Clinic for Functional Disorders and Psychosomatics, University of Aarhus

1. **Statistical aspects of using SF-36 and similar constructs in measuring treatment effect**. Main supervisor: Morten Frydenberg, morten@biostat.au.dk

Dept. of Statistics, University of Southern Denmark

2. **Robust PLS Based Generalized Linear Regression**. Main supervisor: Yuri Goegebeur, Yuri.Goegebeur@stat.sdu.dk

Research Center for Prevention and Health, Glostrup Hospital and Dept. of Biostatistics, University of Copenhagen

3. **Methods for estimating direct effects of repeated interventions**. Main supervisor: Svend Kreiner, S.Kreiner@biostat.ku.dk. Other contact persons: Torben Jørgensen, tojo@glo.regionh.dk

Dept. of Biostatistics, University of Copenhagen

4. **Development of statistical methods for analyzing the impact of genetics on brain functioning expressed by PET- and fMRI-images.** Main supervisor: Esben Budtz-Jørgensen, E.Budtz-Joergensen@biostat.ku.dk.

Institute for Genetics and Biotechnology, Research Unit for Statistics and Decision Theory, Faculty of Agricultural Sciences, University of Aarhus

5. **Statistical modelling for on-farm-on-time warning systems in dairy cattle farms based on sensor fusion of in-line measurements.** Main supervisor: Asger Roer Pedersen, AsgerR.Pedersen@agrsci.dk. Other contact persons: Søren Højsgaard, soren.hojsgaard@agrsci.dk

It is a prerequisite for allocation of the scholarships that enrolment as a PhD student at the relevant universities takes place.

Appointment will take place at the institutions where the PhD projects are to be carried out. The terms of employment are stated in the agreement between The Danish Confederation of Professional Associations and the Ministry of Finance.

The PhD programme is to be completed in accordance with the Ministerial Order on the PhD Course of Study and on the PhD Degree of the Ministry of Science, Technology and Innovation, and the regulations and guidelines defined by the respective universities.

**How to apply**
Applicants should use a specific application form to be found on our home page www.phdbiostat.dk. The letter of application (written in Danish or English) should include all the enclosures stated in the guidelines. The application should be phrased as a specific project plan, and it is advised to contact the relevant contact person.

Deadline for application is **2nd of July, 2007**. Application in 5 copies marked "Biostat PhD" should be forwarded to: **Danish Graduate School in Biostatistics, entrance B, Øster Farimagsgade 5, P.O. Box 2099, DK-1014 Copenhagen K, att. Lisbeth Lyng Hansen.**

The quality of the applications will be assessed by an assessment committee in accordance with the Ministerial Order Regarding Appointments. The committee will judge the quality of the project as well as the qualifications of the applicant. On the basis of the recommendations of this committee the board of the graduate school will make a decision for allocating the scholarship.

Further information about the scholarship can be obtained by contact to the director of the graduate school, professor Niels Keiding, Institute of Public Health, N.Keiding@biostat.ku.dk, telephone +45 35 32 79 03.

***The Danish Graduate School in Biostatistics*** *aims to stimulate and coordinate the national training of PhD students within biostatistics. The graduate school is based on a collaboration between universities, industry and government research institutes. It was founded on January 1, 2004 and has received a 5-year grant from the former Danish Research Training Council as well as some additional grants from The Danish Agency for Science, Technology and Innovation. The participating institutions contribute with financial support as well. The activities are focused on initiation of advanced PhD courses and research seminars as well as allocation of PhD scholarships. For more information, please refer to the home page www.phdbiostat.dk*

Opportunities to combine probability and statistics with climate research and marine safety at the Post Doc (ER) and Post Graduate (ESR) level

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SEAMOCS, Applied Stochastic Models for Ocean engineering, Climate, and Safe transportation
Webpage:

http://www.maths.lth.se/seamocs/

The EU Marie Curie Research Training Network SEAMOCS offers

***six positions for experienced (ER) researchers***

combining probability and statistics with marine sciences, hydraulics and coastal engineering, climatology and marine transportation safety.

It also offers research training for ESR researchers for shorter and longer periods, from three months and up. The positions at two or more participating centres can be combined in order to get interdisciplinary training. The positions are restricted to candidates from EU or associated countries, and require mobility to a new host country.

Post Doctoral positions will be available for research on:

- *New methods for uncertainty analysis of extremes from deterministic marine science/meteorological models*, at Probability & Statistics, the University of Sheffield, UK (12 months)
- *Locally stationary models for random waves – estimation and properties*, at Laboratoire des Statistiques et Probabilités, Toulouse, France (12 months)
- *Regional scale scenarios for coastal zone impact studies in future climate*, at Hydraulics Laboratory, Katholieke Universiteit Leuven, Belgium, (12 months)
- *Global scale extremes in future climate*, at Royal Dutch Meteorological Institute, De Bilt, The Netherlands (12 months)
- *"To be announced"*, at Naval architecture and Ocean engineering, Chalmers, Sweden (12 months)
- *Wave modelling and uncertainties in wave forecasts including the uncertainties in the meteorological forcing*, at Swedish Meteorological and Hydrological Institute, Norrköping (12 months)

Short or longer periods for Post Graduate researchers (PhD students) will be available at

- Mathematical statistics, Lund University, Sweden – for *Computational tools for marine applications*
- Probability & Statistics, the University of Sheffield, UK – for *Statistical analysis of extremes in marine science and meteorology and in methods for the assessment of model uncertainty*
- Institute of Cybernetics, Tallinn Technical University, Estonia – *to be announced*
- Royal Dutch Meteorological Institute, De Bilt, The Netherlands – for *Intercomparison of modelled and observed climate extremes*
- Det Norske Veritas, Hövik, Norway – *to be announced*

Most positions are open from fall 2007. For details and exact dates for application, see the network webpage or contact the co-ordinator Georg Lindgren, georg@maths.lth.se. The research topics at Leuven and De Bilt are closely linked and can be combined to a 24 month period.

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## STATISTIKER TIL EPIDEMIOLOGISK FORSKNING

***Afdeling for Epidemiologisk Forskning på Statens Serum Institut søger engageret statistiker til arbejde med biostatistik i dynamisk, tværfagligt miljø bestående af læger, statistikere, biologer, m.fl. Afdelingen består p.t. af 52 ansatte (heraf 11 statistikere) og udfører forskning med fokus på infektions-, kræft- og autoimmune-sygdomme, samt sygdomme hos børn. Både nyuddannede og mere erfarne statistikere opfordres til at søge.***

**Jobbet**

- I projektgrupper med læger og andre statistikere at gennemføre epidemiologisk forskning indenfor et eller flere emner og deltage i den efterfølgende udarbejdelse af videnskabelige artikler.
- Selvstændigt ansvar for analyser af data med støtte fra seniorstatistikere på afdelingen.
- Faglig udvikling i et aktivt forskningsmiljø med møder i statistikergruppen, studiekredse i statistik og deltagelse i kurser og konferencer. Der vil på længere sigt være mulighed for udvikling af selvstændige forskningsprojekter, evt. ph.d.-projekt, afhængig af ønsker og kvalifikationer.

**Kvalifikationer**

- Statistisk kandidatgrad eller tilsvarende
- Interesse for biostatistik og epidemiologisk metode
- Gerne kendskab til SAS
- Evne til at arbejde selvstændigt med flere opgaver samtidigt

**Løn- og ansættelsesvilkår**
Overenskomst mellem pågældendes forhandlingsberettigede organisation og Finansministeriet.

**Information**
Kan fås ved henvendelse til professor Mads Melbye, tlf. 32 68 31 63 eller chefstatistiker Jan Wohlfahrt tlf. 32 68 39 52.

**Ansøgning**
Du opfordres til at sende ansøgningen elektronisk via jobsiden på www.ssi.dk.
Her kan du vedhæfte din ansøgning og CV.
Ansøgningen mærket "64011100" skal være Instituttet i hænde senest mandag den 25. juni 2007 kl. 12.00.

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www.ssi.dk

# Statisticians for Novo Nordisk R&D


**We need two experienced statisticians for global clinical development**
We are looking for two experienced statisticians to work in two of our five clinical key projects that together with the central statistics function Biostatistics comprise the statistical competency anchor in our project organistation. Today 44 statisticians and 21 statistical programmers are working in Novo Nordisk Global Development, dealing with all aspects of the statistical handling of the company's clinical and non-clinical drug development program within diabetes, haemostasis, devices, oncology and growth disorders.

**Project statistician for Clinical Research, Device Projects**
In the Device Projects which is situated in Sorgenfri there is today a total of 15 employees including 1 statistician and 1 data manager. The department has the global responsibility for all medical and clinical operational activities for devices. As project statistician working in device projects you will be involved in early exploratory phase 1 trials and onwards, which results in a great variaty of study set-ups and endpoints. In your daily work you will have a lot af challenges as giving input to the clinical development plans, taking part in planning of clinical trial design, statistical analysis, reporting and presentation of results. Furthermore you will also take part in planning design of non-invasive, practical evaluation of devices.

**Statistician in Clinical Operations, NovoSeven Key Projects**
In Clinical Operations, NovoSeven Key Projects which is situated in Bagsværd, there is today a total of 50 employees including 3 statisticians and 1 statistical programmer. The department manages all haemostasis development activities including the development of NovoSeven as a treatment for various emergency bleeding indications and the development of successor products and new haemostatic agents. As a statistician on the NovoSeven programme, you will give input to the planning and design of upcoming clinical trials as well as analyses, interpretation and reporting of trial results. You will be faced with many exciting challenges in your daily work, including a diverse range of study designs involving explorative statistical modelling, mathematical simulations and adaptive designs. Currently the primary task is to support the Trauma indication where the focus is on advicing the clinical researchers on the design and analysis of the ongoing confirmatory clinical trials.

**Qualifications for both positions**
You should have a solid theoretical background in statistics corresponding to at least M.Sc. level. Furthermore, at least three years of work experience within clinical research is needed. Programming experience and SAS knowledge is highly relevant. Independence, good collaboration skills, and the ability to solve assignments within a short timeframe are also necessary characteristics. Communication skills are central, as you must be able to communicate statistical/technical problems and ideas to non-statisticians.

Development of methods and processes, as well as knowledge sharing is continuously ongoing in Novo Nordisk, especially based on the initiative of the employees. We expect you to take part in the maintenance of the statistical function as a good and challenging place to work. In exchange we of course offer opportunities for ongoing training to ensure the competency development of our employees.

**Contact**
If you would like to have further information you are welcome to call Associate Director Biostatistics Birgitte Hylleberg tel: +45 3079 2510 or Senior Associate Director Biostatistics René Tabanera tel: +45 3079 1725. Please, send your application marked "NN32739" to Human Resources, Novo Nordisk A/S, Novo Allé, DK-2880 Bagsvaerd, Denmark or electronically via www.novonordisk.com/job no later than 11th of June 2007.

# Kalender 2007

| Dato | No. | Aktivitet |
|---|---|---|
| 4–8/6 | 3 | Department of Medical Epidemiology and Biostatistics, Karolinska Institutet, Stockholm.<br>Lyle Gurrin, University of Melbourne: *Bayesian Data Analysis* |
| 6-8/6 | 2 | First Nordic-Baltic Biometric Conference 2007, 6 - 8 June, Denmark |
| 12/6 | 5 | Biostatistisk Afdeling, Københavns Universitet.<br>John Maindonald, Australian National University: *Predictive Accuracy - Is it enough?* |
| 25/6 | 5 | Biostatistisk Afdeling, Københavns Universitet.<br>Maja Pohar Perme, University of Ljubljana: *Regression in Relative Survival* |
| 9-12/8 | 5 | Sandbjerg, Denmark: *Satellite Summerschool before The 5th International Conference on Levy Processes: Theory and Applications* |
| 13-17/8 | 5 | Institut for Matematiske Fag, Københavns Universitet.<br>*The 5th International Conference on Levy Processes: Theory and Applications* |
| 16/8 | 5 | Department of Biostatistics and the Graduate school of Biostatistic<br>Dr. PAUL MURRELL, University of Auckland: *R Graphics* |
| 17-19/9,<br>8-10/10 | 1 | Forskerskolen i Biostatistik, København.<br>*Statistical Analysis of Survival Data for Biostatistical/Statistical PhD students* |
| 5-9/11 | 3 | Department of Mathematical Sciences, University of Copenhagen<br>Ph.D.-course: *Statistical Analysis of Microarray Expression Data with R and Bioconductor* |

No.: Nummer af meddelelser hvor arrangement er annonceret.

# Nyt Om Navne

Per Settergren Sørensen er pr. 1. maj 2007 blevet ansat som Head of Statistics i Cyncron Biometrics.

Lektor, dr. scient. Thomas H. Scheike tiltrådte 1. marts 2007 et 5-årigt professorat i biostatistik med særligt henblik på longitudinelle studier i miljø- og reproduktionsepidemiologi ved Institut for Folkesundhedsvidenskab ved Københavns Universitet.