

# Ph.D. in Statistics

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From December 1996 to December 1999 I have done my Ph.D. studies at the [Department of Mathematics and Physics, The Royal Veterinary and Agricultural University \(KVL\), Denmark](#). As I was using statistics in forestry and was located at [Dina KVL](#) I have some connection with the [Danish Informatics Network in the Agricultural Sciences](#).

Note, since then the department and KVL has been merged into [University of Copenhagen](#). The current links that come closest are [Faculty of Science](#) with the [Department of Mathematical Sciences](#) and the [Forest and Landscape College](#) as well as [Department of Geosciences and Natural Resource Management–Forest, Nature and Biomass](#).

The work is described in the following thesis:

**Statistical inference  
and perfect simulation  
for point processes observed with noise**

Jens Lund

December 1999

[Online summary of ph.d. thesis.](#)

(An older report [Spatial models related to trees](#) for a ph.d. midterm seminar also describes the ph.d. project. An [online version](#) of the report with some quirks is also present.)

The [defence](#) was on Friday 25th February, 2000.

The thesis can be downloaded as the following papers:

- Jens Lund, [Statistical inference and perfect simulation for point processes observed with noise](#) (pdf), Ph.D. thesis, Department of Mathematics and physics, The Royal Veterinary and Agricultural University, December 1999.
- Jens Lund, Mats Rudemo, [Models for point processes observed with noise](#), November 4, 1998, Report 10, Department of Mathematics and Physics, The Royal Veterinary and Agricultural University, accepted for publication in Biometrika, [revised version September 8, 1999, revised version November 1, 1999](#) (pdf). The November 1, 1999, version is present in the thesis.
- Jens Lund, Antti Penttinen, Mats Rudemo, [Bayesian analysis of spatial point patterns from noisy observations](#) (pdf), October 27, 1999, Department of Mathematics and Physics, The Royal Veterinary and Agricultural University, submitted.

- [Jens Lund, Elke Thönnies](#), *Perfect simulation of point patterns from noisy observations* ([pdf](#)), December 10, 1999, Department of Mathematics and Physics, The Royal Veterinary and Agricultural University, manuscript. Find an updated version [here](#).
- [Jens Lund](#), *Survival of the Fattest? Self-thinning among Trees* ([pdf](#)), April 29, 1998, Report 3, Department of Mathematics and Physics, The Royal Veterinary and Agricultural University, course report from a PhD course in forest biometrics.
- [Jens Lund, Elke Thönnies](#), *Perfect adaptive Metropolis-Hastings Simulation for Point Processes*, December 13, 1999, Department of Mathematics and Physics, The Royal Veterinary and Agricultural University, preliminary manuscript. Update January 2000: The idea presented here has turned out not to work. It produces samples from the wrong distribution. Please read Section 3.4 in the [introductory](#) part of the thesis to get an idea of what goes wrong. If you still want a copy, please [contact me](#).

You can get a printed version of the thesis by [contacting](#) me.

Please, also have a look at my [list of publications](#), where updated versions of the papers in the thesis will be available.