

PERSONAL  
INFORMATION

*Name:*  
Jonas Fredrik Wallin  
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Christian Nils Väg 7 C, Eslöv  
*Family:*  
Cohabitation and  
sons Henning and Nore Wallin

## CONTACT

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Matematiska vetenskaper,  
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## POSITIONS

- **Post Doc** Maj 2014- April 2016  
Mathematical Statistics, Chalmers university of technology,

## EDUCATION

PhD Matematisk statistik. 2009 - 2014  
( Mathematical Statistics)

- Supervisor: Krzysztof Podgorski
- at: **Lunds universitet**, Sverige
- Parental leave: 2012 September to February.

Magisterexamen Matematisk statistik.  
(Degree of Master of Science in Mathematical Statistics)

- Supervisor: Finn Lindgren
- at: **Lunds universitet**, Sverige

## PUBLICATIONS

- [1] K. Podgórski and J. Wallin , *Maximizing leave-one-out likelihood for the location parameter of unbounded densities*  
Annals of the Institute of Statistical Mathematical, **67**, 19-38 (2015).
- [2] J. Wallin and D. Bolin, *Geostatistical Modelling Using Non-Gaussian Matérn Fields*,  
Scandinavian Journal of Statistics, **42**, pp 872–890 (2015).
- [3] S. Adalbjörnsson, J. Swärd, J. Wallin and A. Jakobsson, *Estimating Periodicities in Symbolic Sequences Using Sparse Modelling*, Signal Processing, IEEE Transactions on, **63**, pp 2142-2150 (2015)
- [4] K. Podgórski, I. Rychik and J. Wallin, *Slepian models for moving averages driven by a non-Gaussian noise*, Extremes **18**, pp 665-695 (2015).

- [5] R. Maghsood , I. Rychlik and J. Wallin, *Modeling extreme loads acting on steering components using driving events* Probabilistic Engineering Mechanics, **41**, pp 13-20 (2015)
- [6] K. Johnsson, J. Wallin and M. Fontes, *BayesFlow: latent modeling of flow cytometry cell populations*, BMC bioinformatics, **17**, pp 1-25 (2016)
- [7] K. Podgórski and J. Wallin, *Convolution invariant generalized hyperbolic subclasses* Communications in Statistics - Theory and Methods, **45**, pp 98-103 (2016).
- [8] D. Bolin and J. Wallin, *Spatially adaptive covariance tapering*, Spatial statistics, **in press** (2016)

SUBMITTED/  
TECHNICAL REPORT

- [9] D. Bolin , A. Frigessi , P. Guttorp , O. Haug , E. Orskaug , I. Scheel and J. Wallin *Calibrating regionally downscaled precipitation over Norway through quantile-based approaches*, under revision in ASCMO
- [10] J. Wallin and D. Bolin, *Efficient adaptive MCMC through precision estimation*, Submitted
- [11] R. Maghsood and J. Wallin *Online estimation of driving events and fatigue damage on vehicles*, Submitted
- [12] D. Bolin, J. Wallin, and F. Lindgren , *Multivariate latent Gaussian random field mixture models*, Technical report
- [13] C. Gustafson ,D. Bolin , J. Wallin , and F. Tufvesson , *A Note on Clustering Methods for Wireless Channel Models*, Technical report

PHD STUDENTS

Roza Maghsood (Assistant advisor)	To finish in 2016
Anders Hildeman (Assistant advisor)	To finish in 2019

REVIEWER FOR  
JOURNALS

Technometrics, Statistics and Computing

TEACHING

Course	position	date
Computer intensive statistical methods	Lecturer	2015, Chalmers
Computer intensive statistical methods	Lecturer	2014, Chalmers
Statistical image analysis	Lecturer	2013, Lund
Monte Carlo inference	Assistant	2009,2013,Lund
Risk Analysis	Assistant	2012, Lund
statistical tools in climate science	Assistant	2012, Copenhagen
Statistical Design of Experiment	Assistant	2012, Lund
Survival analysis	Assistant	2012, Lund
Statistical Modelling of Extreme Values	Assistant	2011, Lund
Time Series analysis	Assistant	2010 Fall & Spring, Lund
Time Series analysis	Created Computer Labs	2010, Lund
Statistical image analysis	Assistant	2009, Lund
Probability Theory	Assistant	2009, Lund
Computational Mathematics with Python	Assistant	2009, Lund
Mathematical Statistics	Assistant	2008, Lund
Stationary Stochastic Processes	Assistant	2008, Lund

## PRESENTATION

- [1] Geostatistical modeling using the SPDE approach. In *Linköping, 2015*.
- [2] Parameter estimation for continuous non-Gaussian random fields. In *Spatial statistics, Avignon, 2015*
- [3] Lund, Bayes at Lund: Estimation of local moose population using Bayesian hierarchical modeling In *Bayes at Lund, Lund, 2015*
- [4] Multivariate latent Gaussian random field mixture models In: *Smögen workshop, 2014*
- [5] Latent modeling of flow cytometry cell populations. at Chalmers, 2014.
- [6] Non-Gaussian Matérn fields with an application to precipitation modeling, in:
1. Big data day, Chalmers, Göteborg, 2014
  2. Lund University Economical center, Lund , 2013
  3. Chalmers, Göteborg, 2013
  4. Umeå University, Umeå , 2013
  5. JSM, Montreal, 2013. (presented by co-author)
  6. LGM, Reykjavik, 2013. (presented by co-author)
- [7] Chaos expansions of non-linear response to an input at its level crossing. In: *Smögen workshop, 2010*

CONFERENCE  
POSTER

- [8] T.P. change of Support models using GMRF. In: *The Second Workshop on Bayesian Inference for Latent Gaussian Models with Applications*, Trondheim, 2012.
- [9] A temporal extension of non-Gaussian spatial Matern fields. In: *The third Workshop on Bayesian Inference for Latent Gaussian Models with Applications*, Reykjavik, 2013.

SELECTED  
COURSES TAKEN:

Course	teacher:	date
Discontinuous Galerkin Methods	J. Hesthaven	2012, DTU
Iterative Methods for Large Linear Systems	Tim Kelley	2011, DTU
Convex optimization 2	S Boyd	2012, Lund
MCMC in Statistics	O. Papaspiliopoulos , G. Roberts	2013, Copenhagen

WORKING  
EXPERIENCE

- svensk viltförvaltning** 2004-2009, part time
- Estimation of animal population, using:
    1. Distance sampling
    2. accept-reject methods
    3. capture-retain methods
  - Survey sampling
  - SQL database programming