CV

PERSONAL INFORMATION

Name:
Jonas Fredrik Wallin

Birthdate:
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Adress:
Christian Nils Väg 7 C, Eslöv

Family:
Cohabitation and
sons Henning and Nore Wallin

CONTACT

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POSITIONS

- **Assistant Professor** September 2016-
  Department of Statistics, Lund university,
- **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, **18**, pp 163-178 (2016)

[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*, ASCMO, 2, 39-47, (2016)

[10] M. Wengang, I. Rychlik, J. Wallin, and G. Storhaug. *Statistical models for the speed prediction of a container ship*, Ocean Engineering, 126, 152-162 (2016)

[11] R. Maghsood, P. Johannesson and J. Wallin. *Detection of steering events using hidden Markov models with multivariate observations* , Int. J. Vehicle Systems Modelling and Testing, **11**, pp 313-329 (2016)

[12] J. Wallin and D. Bolin. *Efficient adaptive MCMC through precision estimation*, **27:4**,pp887-897, Journal of Computational and Graphical Statistics (2018)

[13] A. Hilderman, D. Bolin, J. Wallin, and J. B. Illian. *Level set Cox processes*, **28**, p169-193, spatial statistics.(2018)

[14] B. Gunnarsson, J. Wallin, and J. Klinberg. *Predation by avian insectivores on caterpillars is linked to leaf damage on oak (Quercus robur): an experimental study*, in press, Oecologia

[15] D. Bolin, J. Wallin, and F. Lindgren. *Multivariate latent Gaussian random field mixture models*, **130**, 80-93, Computational Statistics and Data Analysis (2019)

[16] A. Bukartas, R. Finck, J. Wallin and C.L Rääf *A Bayesian method to localize lost gamma ray sources*, **145:1**, pp 142-147,Applied Radiation and Isotopes (2019)

PEER REVIEWED CONFERENCE PROCEEDING

[17] F. Delmar, and J. Wallin. *Modeling new firm growth and survival: some practical solution*, Academy of Managementś (2018)

SUBMITTED/ TECHNICAL REPORT

[18] D. Bolin and J. Wallin. *Multivariate normal inverse Gaussian Matern fields*, submitted

[19] Ö. Asar, D. Bolin, P. Diggle, and J. Wallin. *Linear Mixed-Effects Models for Non-Gaussian Repeated Measurement Data*, submitted

[20] J. Wallin and S. Vadlamani. *Infinite dimensional adaptive MCMC for Gaussian processes*, submitted

[21] A. Hilderman, D. Bolin, J. Wallin, A. Johansson, T. Nyholm, T. Asklund, and J. Yu. *Whole-brain substitute CT generation using Markov random field mixture models*, Technical report

[22] K. Wallin, J. Wallin. *Estimating the unobservable moose - converting index to population size using a Bayesian hierarchical state space model*, Technical report

[23] R. Maghsood and J. Wallin. *Online estimation of driving events and fatigue damage on vehicles*, Technical report

[24] 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)	Finished in 2016
Anders Hildeman (Assistant advisor)	To finish in 2019
Antanas Bukartas (Assistant advisor)	To finish in 2020
Johan Larsson (Main advisor)	To finish in 2024

REVIEWER FOR JOURNALS

Journal on Uncertainty Quantification, Spatial statistics, Environmetrics, Annals of applied statistics, Scandinavian journal of statistics, Technometrics, Statistics and Computing, International Journal of Fatigue, communications in statistics.

RESENT AND COMING TALKS

[1] Adaptive MCMC in infinite dimension, *workshop, Istanbul, 2018*

[2] Adaptive MCMC in infinite dimension, *European seminar on Computing, 2018*

[3] Spatial statistics, *Banff International Research Station for Mathematical Innovation and Discovery, 2017*

[4] Estimating the unobservable moose, *Smögen workshop, 2016*

[5] Geostatistical modeling using the SPDE approach. In *Linköping, 2015*.

[6] Parameter estimation for continuous non-Gaussian random fields. In *Spatial statistics, Avignon, 2015*

GRANTS

[1] Statistics Of entrepreneurship (STATENT) , Vetenskapsrådet, 4.7 million SEK

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