Publications:

Spatial models for probabilistic prediction of wind power with application to annual-average and high temporal resolution data
Publication: Research - peer-review › Journal article – Annual report year: 2016

Accurate continuous geographic assignment from low- to high-density SNP data
Publication: Research - peer-review › Journal article – Annual report year: 2015

A genomewide catalogue of single nucleotide polymorphisms in white-beaked and Atlantic white-sided dolphins
Publication: Research - peer-review › Journal article – Annual report year: 2015

A Spatial Model for the Instantaneous Estimation of Wind Power at a Large Number of Unobserved Sites
Publication: Research - peer-review › Journal article – Annual report year: 2015

Enhanced computational methods for quantifying the effect of geographic and environmental isolation on genetic differentiation
Publication: Research - peer-review › Journal article – Annual report year: 2016

Enhanced computational methods for quantifying the effect of geographic and environmental isolation on genetic differentiation
Publication: Research - peer-review › Journal article – Annual report year: 2015

Patterns of trawling exploitation and the occurrence of hypoxia in the Baltic Sea
Publication: Research › Report – Annual report year: 2015

Variation in adaptive resilience underscores differences in vulnerability to a changing environment for an ecologically important freshwater fish species
Publication: Research › Report – Annual report year: 2015

Les éléphants en danger
Publication: Research - peer-review › Book chapter – Annual report year: 2014

Detecting correlation between allele frequencies and environmental variables as a signature of selection. A fast computational approach for genome-wide studies
Publication: Research - peer-review › Journal article – Annual report year: 2013

Validity of covariance models for the analysis of geographical variation
Publication: Research - peer-review › Journal article – Annual report year: 2014

Population dynamics of species-rich ecosystems: the mixture of matrix population models approach
Publication: Research - peer-review › Journal article – Annual report year: 2012

Population Structure
Publication: Research › Report – Annual report year: 2013

A Unifying Model for the Analysis of Phenotypic, Genetic and Geographic Data
Publication: Research - peer-review › Journal article – Annual report year: 2012
Dismantling the Mantel tests
Publication: Research - peer-review › Journal article – Annual report year: 2012

Dismantling the Mantel tests
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Integrating genetic, phenotypic and geographic data in ecological and evolutionary studies: The spatial mixture approach
Publication: Research - peer-review › Poster – Annual report year: 2012

On the simple and partial Mantel tests with spatial data
Publication: Research › Sound/Visual production (digital) – Annual report year: 2012

Population genetic and morphometric data analysis using R and the Geneland program
Publication: Research › Report – Annual report year: 2012

Some models in evolutionary biology
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2012

Estimating the location and shape of hybrid zones
Publication: Research - peer-review › Journal article – Annual report year: 2011

On the Informativeness of Dominant and Co-Dominant Genetic Markers for Bayesian Supervised Clustering
Publication: Research - peer-review › Journal article – Annual report year: 2011

Population genetics analysis using R and the Geneland program
Publication: Research › Report – Annual report year: 2011

Splendor and misery of indirect measures of migration and gene flow
Publication: Research - peer-review › Journal article – Annual report year: 2011

Clustering models in population genetics
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2010

Correcting for ascertainment bias in the inference of population structure
Publication: Research - peer-review › Poster – Annual report year: 2010

Geneland
Publication: Research - peer-review › Computer programme – Annual report year: 2010

Identification of adipose tissue genes regulated by caloric intake
Publication: Research - peer-review › Journal article – Annual report year: 2010

Inferring spatial genetic structure
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2010

Toward the use of better priors in spatial population genetics
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2010

Using AFLP markers and the Geneland program for the inference of population genetic structure
Publication: Research - peer-review › Journal article – Annual report year: 2010
A computer program to simulate multilocus genotype data with spatially autocorrelated allele frequencies
Publication: Research - peer-review › Journal article – Annual report year: 2009

Correcting for ascertainment bias in the inference of population structure
Publication: Research - peer-review › Journal article – Annual report year: 2009

On the inference of spatial structure from population genetics data
Publication: Research - peer-review › Journal article – Annual report year: 2009

Package ‘Genelust’
Publication: Research › Computer programme – Annual report year: 2009

Population genetics analysis using R and Geneland
Publication: Research › Report – Annual report year: 2009

Response to comment on ‘On the inference of spatial structure from population genetics data’
Publication: Research - peer-review › Letter – Annual report year: 2009

Spatial prediction of weed intensities from exact count data and image-based estimates
Publication: Research - peer-review › Journal article – Annual report year: 2009

Statistical methods in landscape genetics
Publication: Research - peer-review › Paper – Annual report year: 2009

Statistical methods in spatial genetics
Publication: Research - peer-review › Review – Annual report year: 2009

Supplementary material to Molecular Ecology: Statistical methods in spatial genetics
Publication: Research - peer-review › Review – Annual report year: 2009

Analysing georeferenced population genetics data with Geneland: A new algorithm to deal with null alleles and a friendly graphical user interface
Publication: Research - peer-review › Journal article – Annual report year: 2008

Inference of structure in subdivided populations at low levels of genetic differentiation: The correlated allele frequencies model revisited
Publication: Research - peer-review › Journal article – Annual report year: 2008

Population substructure in Finland and Sweden revealed by the use of spatial coordinates and a small number of unlinked autosomal SNPs
Publication: Research - peer-review › Journal article – Annual report year: 2008

Discrimination and scoring using small sets of genes for two-sample microarray data
Publication: Research - peer-review › Journal article – Annual report year: 2007

Hidden markov random fields and the genetic structure of the scandinavian brown bear population
Publication: Research - peer-review › Journal article – Annual report year: 2007

A network-based analysis of allergen-challenged CD4+T cells from patients with allergic rhinitis
Publication: Research - peer-review › Journal article – Annual report year: 2006
Bayesian clustering using hidden Markov random fields in spatial population genetics
Publication: Research - peer-review › Journal article – Annual report year: 2006

Genetic structure is influenced by landscape features: Empirical evidence from a roe deer population
Publication: Research - peer-review › Journal article – Annual report year: 2006

Inference of a hidden spatial tessellation from multivariate data: Application to the delineation of homogeneous regions in an agricultural field
Publication: Research - peer-review › Journal article – Annual report year: 2006

Un modèle géostatistique pour la détection et la localisation des discontinuités génétiques spatiales entre populations
Publication: Research - peer-review › Book chapter – Annual report year: 2006

A spatial statistical model for landscape genetics
Publication: Research - peer-review › Journal article – Annual report year: 2005

GENELAND: a computer package for landscape genetics
Publication: Research - peer-review › Journal article – Annual report year: 2005

Spatial disaggregation of Sahelian rain fields: A new application of the Gibbs sampler
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Gibbs sampling for conditional spatial disaggregation of rain fields
Publication: Research - peer-review › Journal article – Annual report year: 2004

Interpolation of Rainfall at Small Scale in a Mediterranean Region: Relation between rainfall and altitude within a simple space-time model
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Modélisation géostatistique en génétique des populations
Publication: Research › Report – Annual report year: 2004

Application of the Gibbs Sampler to the Conditional Simulation of Rain Fields
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Interpolation of Rainfall Fields Through Expectation Conditionally On Ground and Satellite Measurements
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2002

A positive definite estimator of the non stationary covariance of random fields
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Clustering geostatistical data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Approximation of Sahelian rainfall fields with meta-gaussian random functions: Part 2: parameter estimation and comparison to data
Publication: Research - peer-review › Journal article – Annual report year: 1999

Approximation of Sahelian rainfall fields with meta-gaussian random functions: Part 1: model definition and methodology
Publication: Research - peer-review › Journal article – Annual report year: 1999
Disaggregation of Sahelian mesoscale convective system rain fields: Further developments and validation
Publication: Research - peer-review › Journal article – Annual report year: 1999

Modélisation statistique des champs de pluie sahéliens: Application à leur désagrégation spatiale et temporelle
Publication: Research › Ph.D. thesis – Annual report year: 1998

Projects:

Computational methods for wind-energy forecasting
Project

Benchmarking and extending models of real estate price prediction, under financial regulation requirements
Project

Computational Landscape Genomics
Project

Population structure
Project

Computational statistical methods in evolutionary biology
Project

Statistical inference methods for evolutionary biology
Project

Activities:

ICES
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Member of PhD committee (External organisation)
Activity: Membership › Membership in review committee

Model and inference algorithm to combine genetic, phenotypic and geographic information
Activity: Talks and presentations › Conference presentations

10th Danish-French workshop in Spatial Statistics
Activity: Talks and presentations › Conference presentations

Assessment committee PhD Scholarships, DTU compute (External organisation)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Workshop on effects of global change on species’ range fluctuations using intra-specific genetic variation in both phenotypic and molecular data
Activity: Talks and presentations › Conference presentations

Lecture
Activity: Talks and presentations › Conference presentations
Seminar of the Department of Biology
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Journal of the Royal Statistical Society (Journal)
Activity: Research › Journal editor

Member of the Editorial Board Population Ecology (External organisation)
Activity: Membership › Board duties in companies, associations, or public organisations

Estimating the phylogenetic history for two related populations A Hidden Markov Model approach to finding phylogenetic trees
Activity: Examinations and supervision › Internal examination

Editorial Board, Journal of Statistical and Econometric Methods (Journal)
Activity: Research › Journal editor

Journal of the Royal Statistical Society, series A (Journal)
Activity: Research › Journal editor

Journal of the Royal Statistical Society, Series A (Journal)
Activity: Research › Journal editor

Spatial Statistics Conference 2012
Activity: Attending an event › Participating in or organising a conference

Associate Editor, Journal of the Royal Statistical Society, Series A (External organisation)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Population Ecology (External organisation)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

The Geneland program
Activity: Other

The Open Statistics and Probability Journal (External organisation)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Population Ecology (Journal)
Activity: Research › Journal editor

Associate Editor, Population Ecology (External organisation)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Population Ecology (Journal)
Activity: Research › Journal editor

The Open Statistics & Probability Journal (Journal)
Activity: Research › Journal editor
73rd Annual Meeting of the Institute of Mathematical Statistics
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Population Ecology (Journal)
Activity: Research › Journal editor

Activity: Research › Peer review of manuscripts

The Open Statistics & Probability Journal (Journal)
Activity: Research › Journal editor

Open Statistics and Probability Journal (External organisation)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Introduction to non-linear models in food science
Activity: Other

Associate Editor Molecular Ecology (External organisation)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Reviewer for Global Ecology and BioGeography, Biometrics, Conservation Genetics (Journal)
Activity: Research › Peer review of manuscripts

Prizes:

Molecular Ecology best reviewer 2013
Prize: Prizes, scholarships, distinctions