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
Guillot, G., Jónsson, H., Hinge, A., Manchih, N. & Orlando, L. 2016 In : Bioinformatics. 32, 7, p. 1106-1108
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
Guillot, G., Rena, S., Ledevin, R., Michaux, J. & Claude, J. 2012 In : Systematic Biology. 61, 6, p. 897-911
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
Guillot, G. 2012
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
Guillot, G. 2012
Publication: Research - peer-review › Poster – Annual report year: 2012

On the simple and partial Mantel tests with spatial data
Guillot, G. & Rousset, F. 2012
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: 2011

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

Estimating the location and shape of hybrid zones
Guedj, B. & Guillot, G. 2011 In : Molecular Ecology Resources. 11, 6, p. 1119-1123
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
Guillot, G., Santos, F. & Estoup, A. 2011
Publication: Research › Report – Annual report year: 2011
Splendor and misery of indirect measures of migration and gene flow
Guillot, G. 2011 In : Heredity. 106, 11-12
Publication: Research - peer-review › Journal article – Annual report year: 2011

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

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

Geneland
Guillot, G. 2010
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
Guillot, G. 2010
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2010

Toward the use of better priors in spatial population genetics
Guillot, G. & Guedj, B. 2010
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
Guillot, G. & Santos, F. 2010 In : Molecular Ecology Resources. 10, 6, p. 1082-1084
Publication: Research - peer-review › Journal article – Annual report year: 2010

A computer program to simulate multilocus genotype data with spatially autocorrelated allele frequencies
Guillot, G. & Santos, F. 2009 In : Molecular Ecology Resources. 9, 4, p. 1112-1120
Publication: Research - peer-review › Journal article – Annual report year: 2009

Correcting for ascertainment bias in the inference of population structure
Guillot, G. & Foll, M. 2009 In : Bioinformatics. 25, 4, p. 552-554
Publication: Research - peer-review › Journal article – Annual report year: 2009

On the inference of spatial structure from population genetics data
Guillot, G. 2009 In : Bioinformatics. 25, 14, p. 1796-1801
Publication: Research - peer-review › Journal article – Annual report year: 2009

Package ‘Geneclust’
Ancellet, S., Ancelet, M. S. & Guillot, G. 2009
Publication: Research › Computer programme – Annual report year: 2009

Population genetics analysis using R and Geneland
Guillot, G., Santos, F. & Estoup, A. 2009
Publication: Research › Report – Annual report year: 2009
Genetic structure is influenced by landscape features: Empirical evidence from a roe deer population
In : Molecular Ecology. 15, 6, p. 1669-1679
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
Guillot, G., Kan-King-Yu, D., Michelin, J. & Huet, P. 2006
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
Les Actes du BRG. Bureau des Ressources Génétiques, Vol. 6, p. 41-55
Publication: Research - peer-review › Book chapter – Annual report year: 2006

A spatial statistical model for landscape genetics
In : Genetics. 170, 3, p. 1261-1280
Publication: Research - peer-review › Journal article – Annual report year: 2005

GENELAND: a computer package for landscape genetics
Guillot, G., Mortier, F. & Estoup, A. 2005
In : Molecular Ecology Notes. 5, 3, p. 712-715
Publication: Research - peer-review › Journal article – Annual report year: 2005

Spatial disaggregation of Sahelian rain fields: A new application of the Gibbs sampler
Onibon, H., Lebel, T., Afouda, A. & Guillot, G. 2005
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Gibbs sampling for conditional spatial disaggregation of rain fields
Onibon, H., Lebel, T., Afouda, A. & Guillot, G. 2004
Water Resources Research. 40, 8, 12 p., W08401
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
Béal, D., Guillot, G., Courault, D. & Bruchou, C. 2004
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
Onibon, H., Lebel, T., Afouda, A. & Guillot, G. 2002
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Interpolation of Rainfall Fields Through Expectation Conditionally On Ground and Satellite Measurements
Guillot, G. & Lebel, T. 2002
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
Guillot, G. & Lebel, T. 1999 In : Stochastic Environmental Research and Risk Assessment. 13, 1-2, p. 113-130
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
Guillot, G. 1999 In : Stochastic Environmental Research and Risk Assessment. 13, 1-2, p. 100-112
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
Guillot, G., Pinson, P. & Bezzeria, E. 01/02/2015 → 29/02/2016
Project

Benchmarking and extending models of real estate price prediction, under financial regulation requirements
Guillot, G., Katrossky, A., Thygesen, U. H. & Dalhoff, J. 01/09/2014 → 01/10/2017
Project

Computational Landscape Genomics
Guillot, G., Storfer, A., Poss, M. & Antolin, M. 01/10/2013 → ...
Project

Population structure
Guillot, G. & Orlando, L. 01/07/2013 → ...
Project

Computational statistical methods in evolutionary biology
Guillot, G. 01/01/2013 → 31/12/2013
Project
Statistical inference methods for evolutionary biology
Guillot, G.
01/09/2009 → 31/08/2012
Project

Activities:

ICES
Guillot, G. (Participant)
9 Jun 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Member of PhD committee (External organisation)
Guillot, G. (Participant)
May 2015
Activity: Membership › Membership in review committee

Model and inference algorithm to combine genetic, phenotypic and geographic information
Guillot, G. (Invited speaker)
29 Apr 2015
Activity: Talks and presentations › Conference presentations

10th Danish-French workshop in Spatial Statistics
Guillot, G. (Invited speaker)
2014
Activity: Talks and presentations › Conference presentations

Assessment committee PhD Scholarships, DTU compute (External organisation)
Guillot, G. (Participant)
10 Nov 2014
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
Guillot, G. (Invited speaker)
Activity: Talks and presentations › Conference presentations

Lecture
Guillot, G. (Lecturer)
Apr 2014
Activity: Talks and presentations › Conference presentations

Seminar of the Department of Biology
Guillot, G. (Participant)
Apr 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Journal of the Royal Statistical Society (Journal)
Guillot, G. (Editor)
1 Jan 2014 → 31 Dec 2014
Activity: Research › Journal editor
Member of the Editorial Board Population Ecology (External organisation)
Guillot, G. (Participant)
1 Jan 2014 → 31 Dec 2014
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: A Hidden Markov Model approach to finding phylogenetic trees
Guillot, G. (Internal examiner)
Jul 2013
Activity: Examinations and supervision › Internal examination

Editorial Board, Journal of Statistical and Econometric Methods (Journal)
Guillot, G. (Editor)
2012 → …
Activity: Research › Journal editor

Journal of the Royal Statistical Society, series A (Journal)
Guillot, G. (Editor)
2012 → 2014
Activity: Research › Journal editor

Journal of the Royal Statistical Society, Series A (Journal)
Guillot, G. (Editor)
2012 → …
Activity: Research › Journal editor

Spatial Statistics Conference 2012
Guillot, G. (Participant)
Dec 2012
Activity: Attending an event › Participating in or organising a conference

Associate Editor, Journal of the Royal Statistical Society, Series A (External organisation)
Guillot, G. (Participant)
Jun 2012 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Population Ecology (External organisation)
Guillot, G. (Participant)
1 Jan 2012 → 31 Dec 2012
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

The Geneland program
Guillot, G. (Participant)
1 Jan 2012 → 31 Dec 2012
Activity: Other

The Open Statistics and Probability Journal (External organisation)
Guillot, G. (Participant)
1 Jan 2012 → 31 Dec 2100
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Population Ecology (Journal)
Guillot, G. (Reviewer)
2011 → 2012
Activity: Research › Journal editor
Associate Editor, Population Ecology (External organisation)
Guillot, G. (Participant)
2010 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Population Ecology (Journal)
Guillot, G. (Editor)
2010 → …
Activity: Research › Journal editor

The Open Statistics & Probability Journal (Journal)
Guillot, G. (Editor)
2010 → …
Activity: Research › Journal editor

73rd Annual Meeting of the Institute of Mathematical Statistics
Guillot, G. (Chairman)
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Population Ecology (Journal)
Guillot, G. (Editor)
1 Jan 2010 → …
Activity: Research › Journal editor

Guillot, G. (Reviewer)
1 Jan 2010 → 31 Dec 2010
Activity: Research › Peer review of manuscripts

The Open Statistics & Probability Journal (Journal)
Guillot, G. (Editor)
1 Jan 2010 → …
Activity: Research › Journal editor

Open Statistics and Probability Journal (External organisation)
Guillot, G. (Participant)
2009 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Introduction to non-linear models in food science
Guillot, G. (Participant)
6 Dec 2009
Activity: Other

Associate Editor Molecular Ecology (External organisation)
Guillot, G. (Participant)
1 Jan 2009 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Reviewer for Global Ecology and BioGeography, Biometrics, Conservation Genetics (Journal)
Guillot, G. (Reviewer)
1 Jan 2009 → 31 Dec 2009
Activity: Research › Peer review of manuscripts
Prizes:

Molecular Ecology best reviewer 2013
Gilles Guillot (Recipient), Jan 2013
Prize: Prizes, scholarships, distinctions