SÉBASTIEN COUBE-SISQUEILLE

Sébastien Coube-Sisqueille, 1 calle San Roke, Bilbao, Spain

+33 681745841 / +34 624661129 ⋄ sebastien.coube@lilo.org

SUMMARY

I am a young doctor in statistics. Really into Bayesian modeling, spatial models, and computational statistics, but also a curious person with a strong interest in health, ecology and social sciences.

EDUCATION

Lycée Lakanal, Sceaux, France	2012 - 2015
Prépa B/L mathematics, humanities and social sciences	
ENSAE, Palaiseau, France	2015 - 2018
École d'ingénieur statistics and machine learning	
UPPA, Anglet, France	2018 - 2021
PhD contract, Bayesian spatial statistics	

PROFESSIONAL EXPERIENCE

Lycée Lakanal, Sceaux, France	2015 - 2017
Teaching (mathematics)	
Maïsadour, Haut-Mauco, France	June 2016 - July 2016
Internship, analysis of corn market prices	
CEVA, Lenexa, United States of America	June 2017 - September 2017
Internship, statistics for veterinary clinical trials	
UPPA, Anglet, France	2018 - 2021
PhD contract, including teaching (mathematics, biostatistics)	
BCAM, Bilbao, Spain	2022 - today
Postdoc	
UPPA, Pau, France	2022-2023
Teaching (statistics, machine learning)	

SKILLS

Fields of interest	Bayesian statistics, computational statistics, spatial statistics, Gaussian processes, graphical models, hierarchical modeling
Programming & software	R (experienced), C++ (occasional), Python (occasional), LaTeX (experienced), Linux (comfortable), Git (basics)
Communication	English (highly fluent), Spanish (highly fluent), French (mother tongue)

RESEARCH

My thesis	*MCMC algorithms and hierarchical architectures for spatial modeling using Nearest Neighbor Gaussian Processes*
Articles	*Improving performances of MCMC for Nearest Neighbor Gaussian Process models with full data augmentation* (Published in *Computational Statistics and Data Analysis*, with Benoît Liquet)
	Nonstationary Nearest Neighbor Gaussian Process: hierarchical model architecture and MCMC sampling (In revision, *Journal of Computational and Graphical Statistics*, with Sudipto Banerjee and Benoît Liquet)

Communication   *Nonstationary Nearest Neighbor Gaussian Process: hierarchical model architecture and MCMC sampling*: contributed sessions @ ISBA 2021, ISI 2021, Rencontres R Paris 2021, JSM 2021, RSS 2021, Spatial Ecology Workshop of the University of Sheffield 2023, and invited seminary @ Team BIOSP of INRAE Avignon, 2021 and Team MIAT of INRAE Toulouse, 2022.

Hierarchical Bayesian spatial modelling with Multivariate, Nonstationary and Nonseparable processes for air pollution in Euskadi, invited seminary @ VaBaR team, Valencia, Spain, 2023.

A tackle towards the density curse in Gaussian Markov Random Fields sampling : a "blocks and bases" approach, contributed session @ Workshop on Bayesian modeling for Complex Correlated Data, Valencia, Spain, 2023.

Modèle hiérarchique pour la modélisation des polluants atmosphériques: contributed session @ Rencontres R Avignon 2023