

Bayesian Notes for building the geostatistical MANOVA-KNN pipeline

Roxana Tesileanu

roxana.te@web.de
INCDS, Romania

November 2017

Contents

1 Introduction

1

1 Introduction

Note

This document is "under construction". It contains older notes of mine on Bayesian data analysis. Some were used in technical reports of mine (see https://www.researchgate.net/publication/317549069_poisson_model and also new sections aiming at creating the background necessary for the implementation of the MANOVA-KNN pipeline in geostatistics using the idea of **posterior predictive checks** (Introduction and Deduction in Bayesian Data Analysis, Andrew Gelman, 2011). Please download the current version from my GitHub profile under the multivariate_analyses project repository: https://github.com/RoxanaTeseanu/multivariate_analyses/blob/master/literature_analysis/geospatial_scala/bayesian_notes_geosp.pdf.

The statistical plots in this document were generated in Scala using the JavaPlot package developed by Panayotis Katsaloulis [?]. You can find the scala source files used for generating them under the link: https://github.com/RoxanaTeseanu/multivariate_analyses/tree/master/DeepLearning/src/main/scala/com/mai/scalaPlot.

The present document was edited using Latex [?] (<https://www.latex-project.org/>). The source .tex file of the present document is also available in the multivariate_analyses repository on my GitHub profile. Special thanks to Gustavo Mezzetti for the Latex halloweenmath package: <http://mirrors.concertpass.com/tex-archive/macros/latex/contrib/halloweenmath/halloweenmath-man.pdf>!