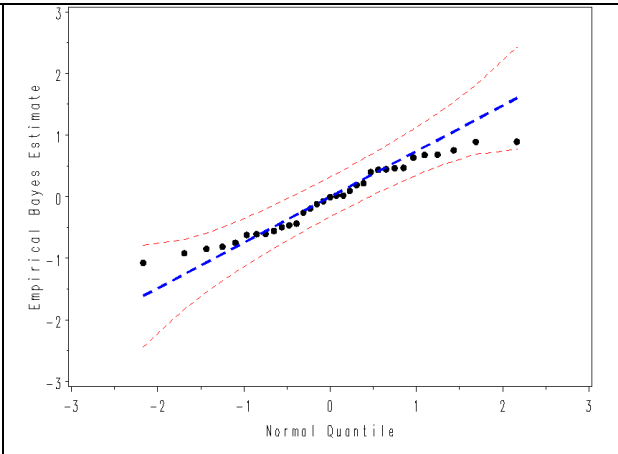
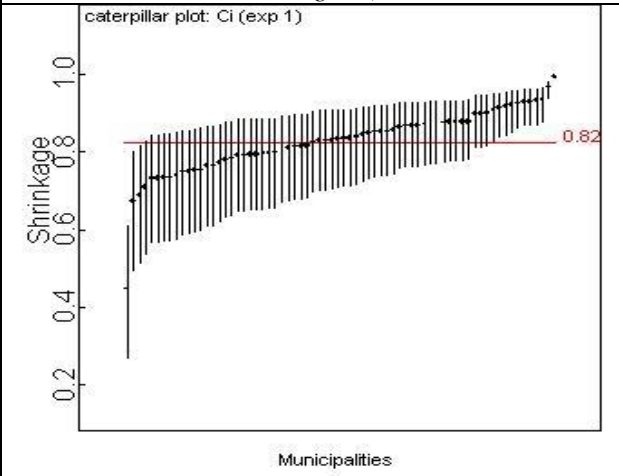


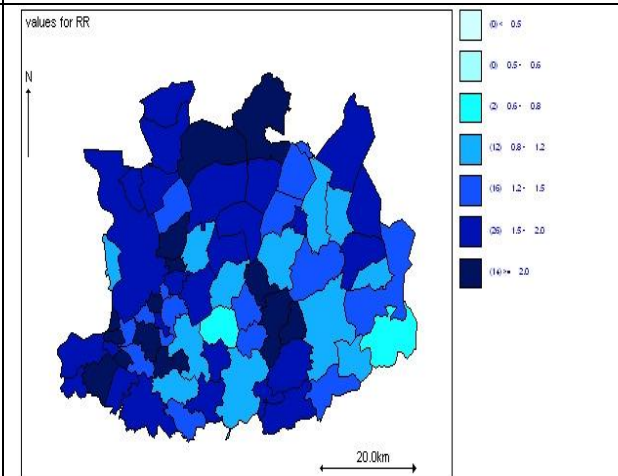
Semivariogram with 'sine hole effect' of air pollution data (showing nugget effect) (*proc krige2d, proc variogram*)



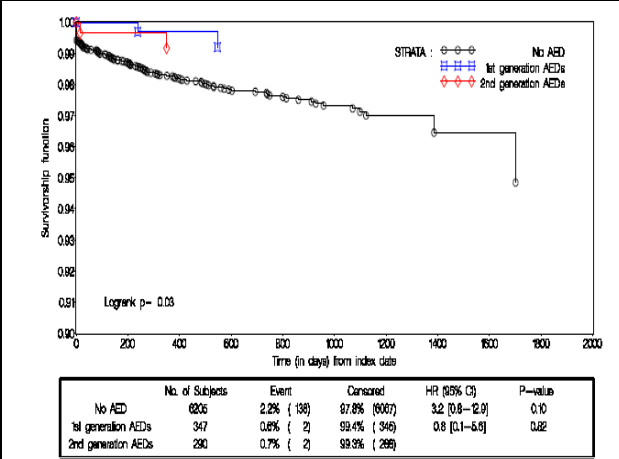
Empirical Bayes *qqplot* ( $\pm 95\%$  CI) of random intercepts



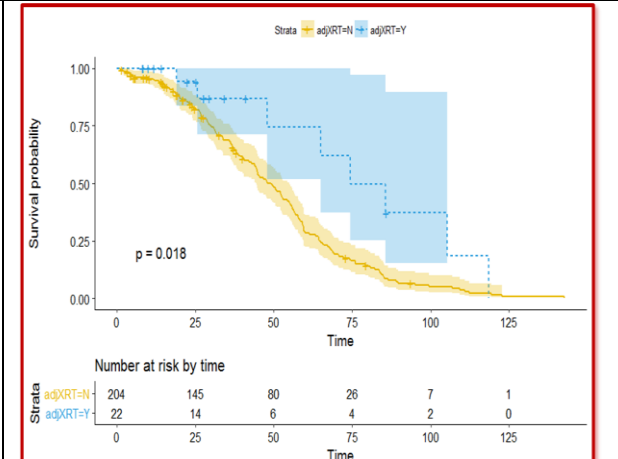
Disease mapping: 'Bayesian shrinkage' – ranked caterpillar plot in a Poisson-gamma model



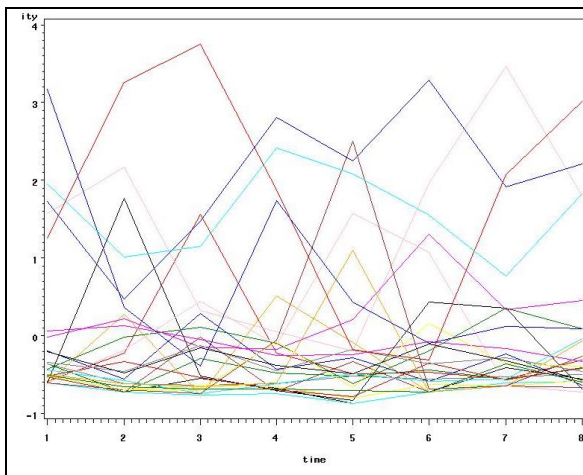
Disease mapping: CAR model of cervix cancer incidence in the Antwerp district (*WinBUGS*)



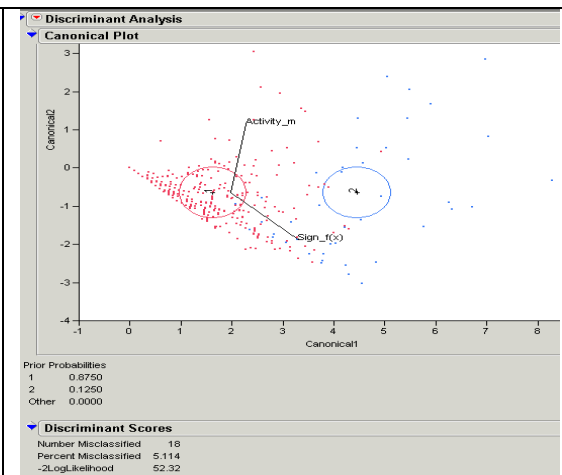
Suicide attempts  $\downarrow$  with AED (any generation) treatment contrary to FDA alert (unmatched analysis)



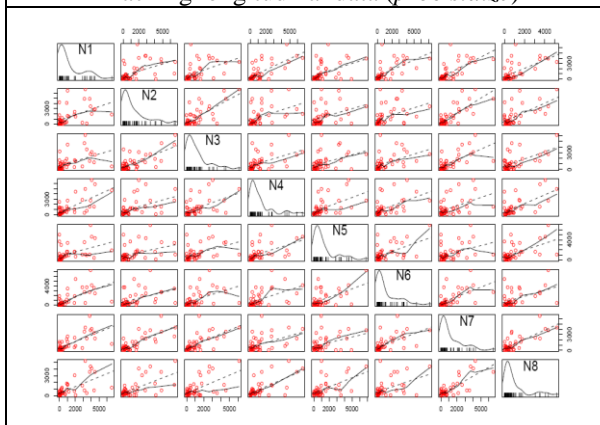
KM plot comparing RTX + CTX treated vs. untreated CRC patients (package *survminer*)



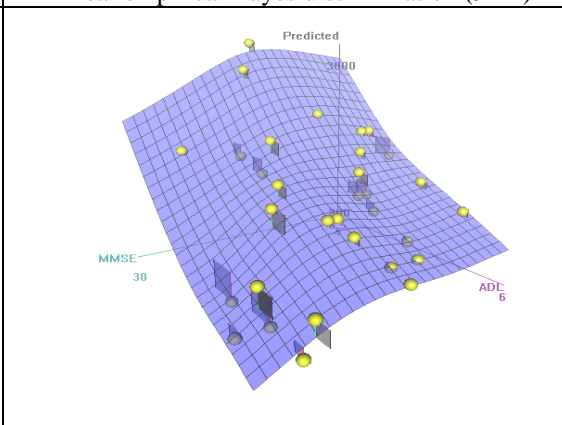
Tracking longitudinal data (*proc stdize*)



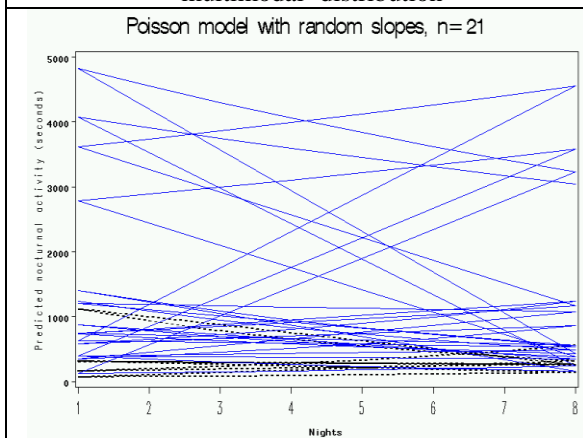
Linear empirical Bayes discrimination (*JMP*)



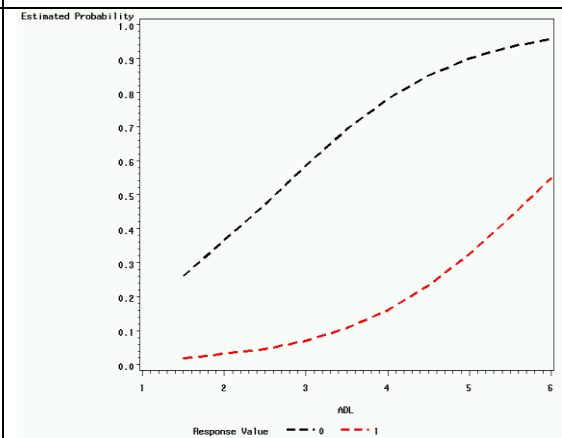
Correlation scatterplot between 8 repeated measurements; with diagonals showing right skewed 'multimodal' distribution



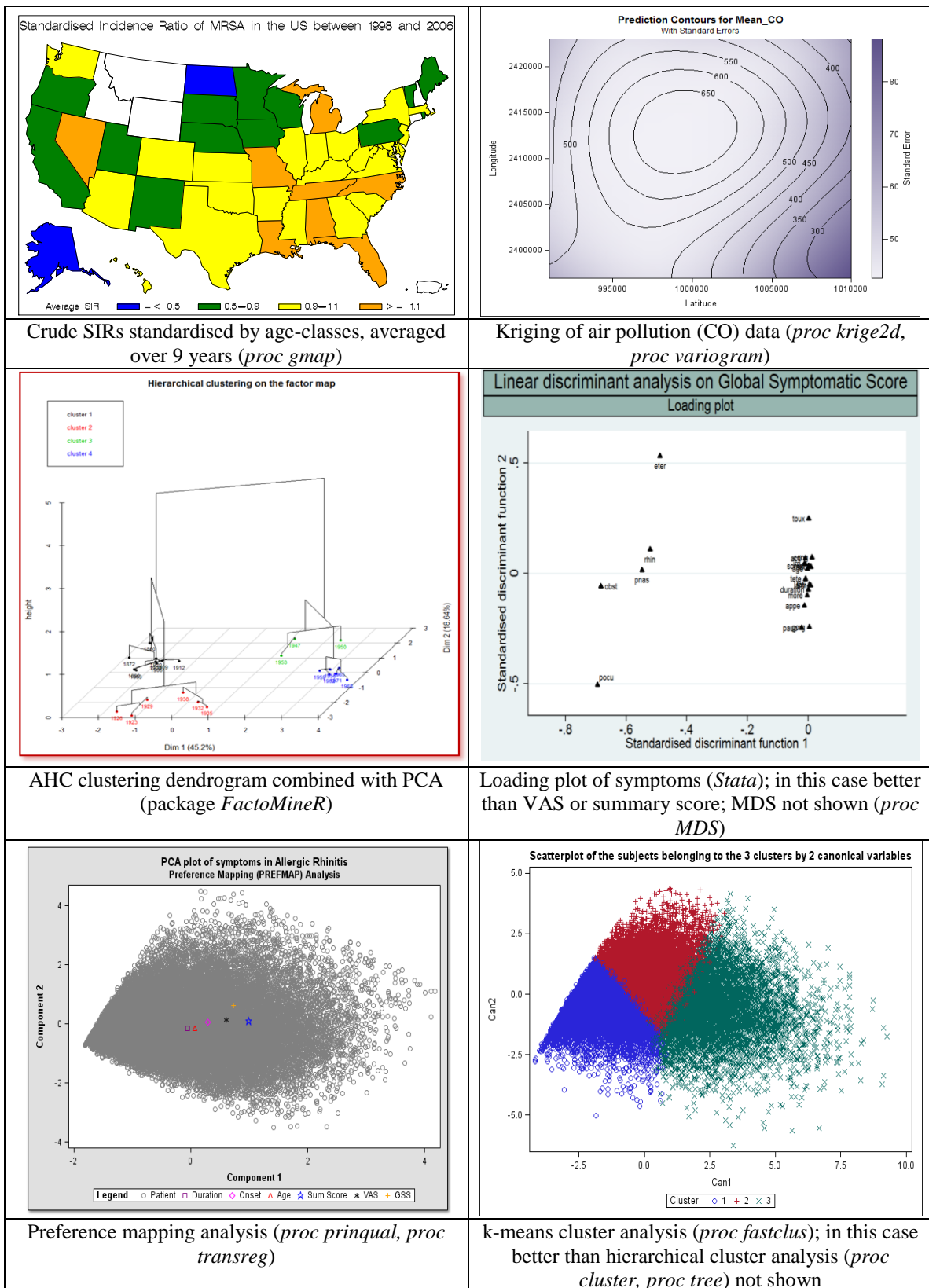
Spline-smoothed predicted response surface with squared residuals (screenshot during 360° rotation)

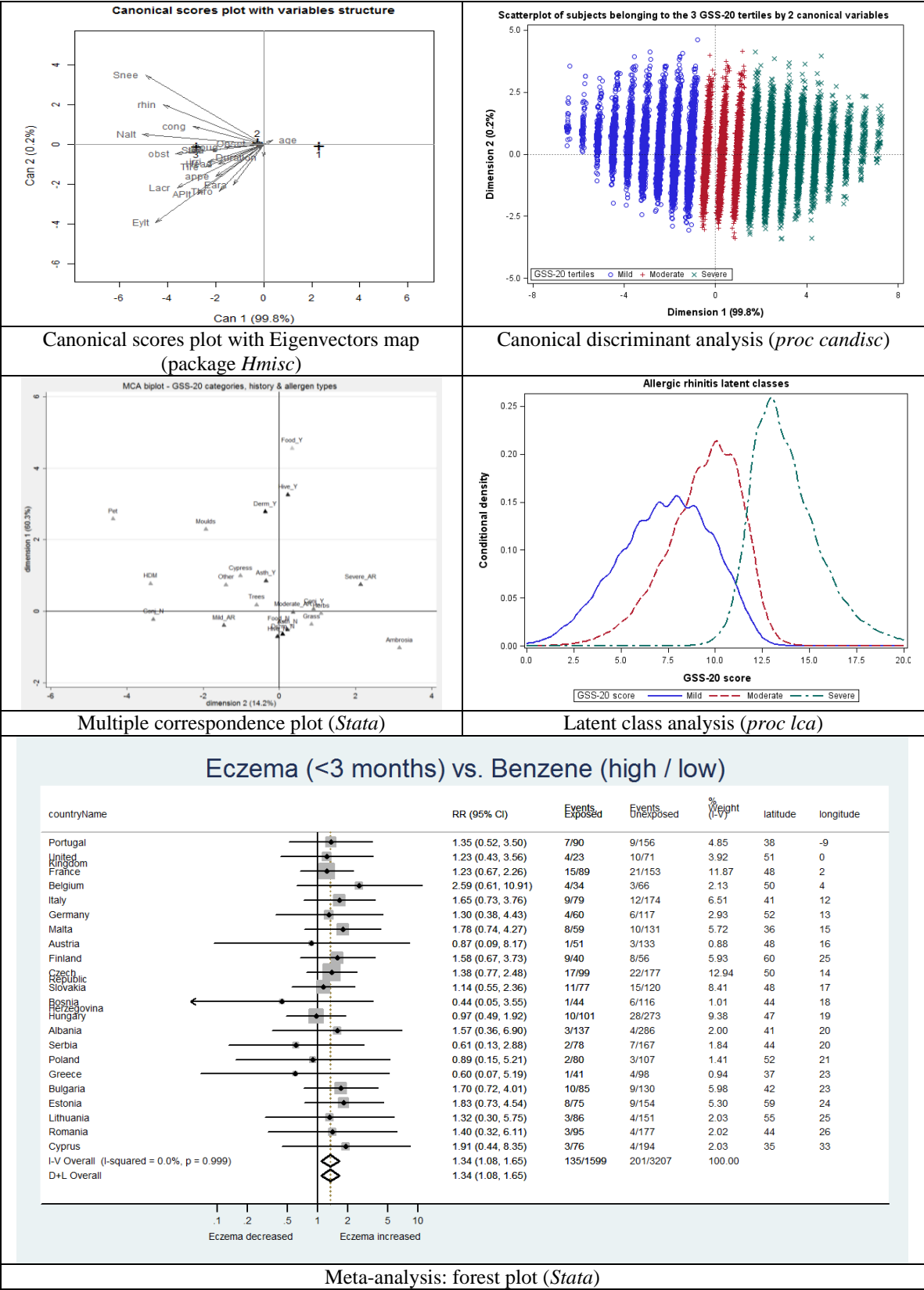


Random slopes by group: Poisson model (*proc nlmixed*)

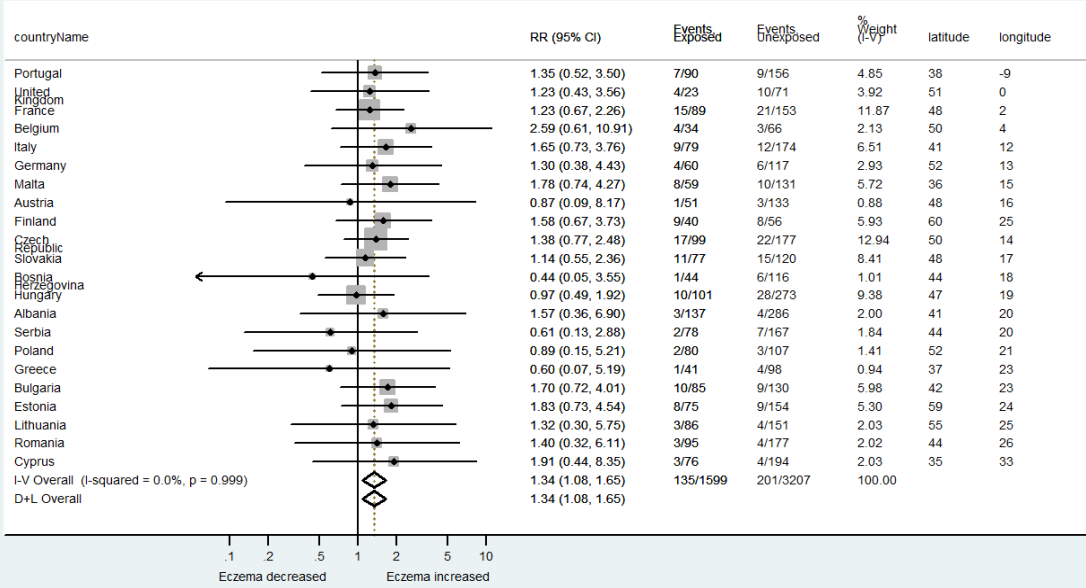


P-O model comparing 3 categories: 'worsening' (red), 'stable' (black) & 'improving' (reference) → subjects have a constant impact (OR) of ADL (exposure) across any level

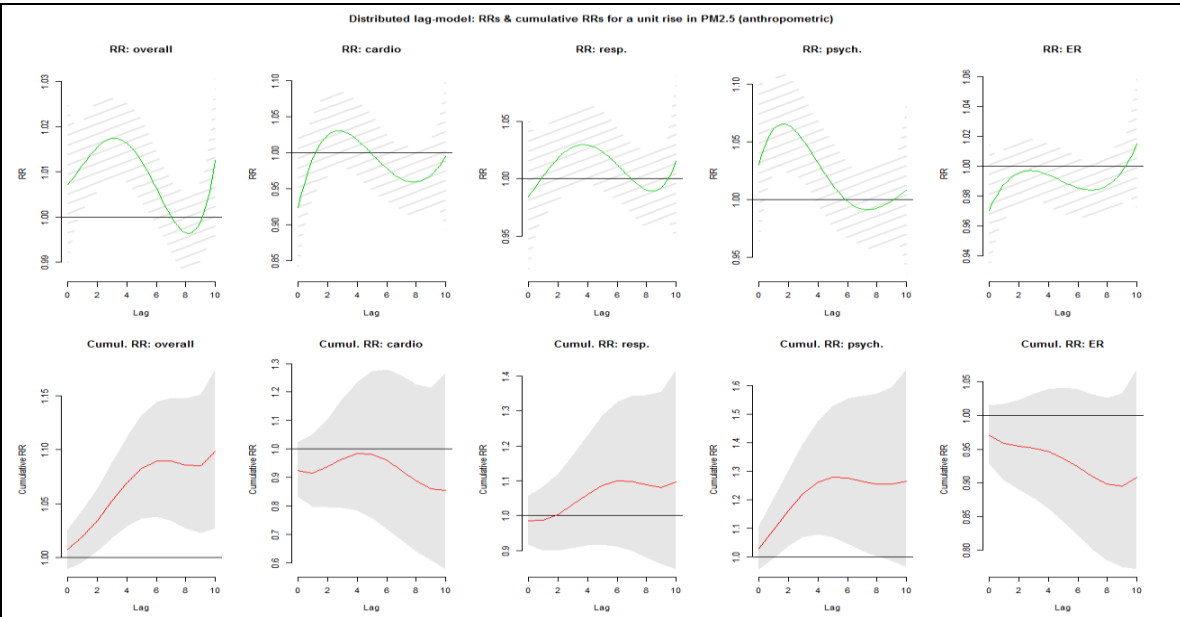




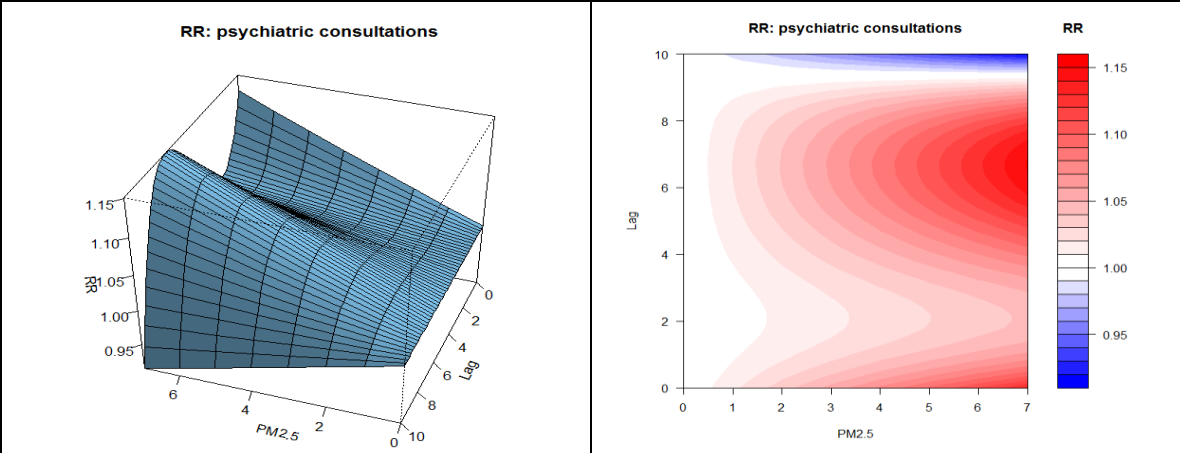
Eczema (<3 months) vs. Benzene (high / low)



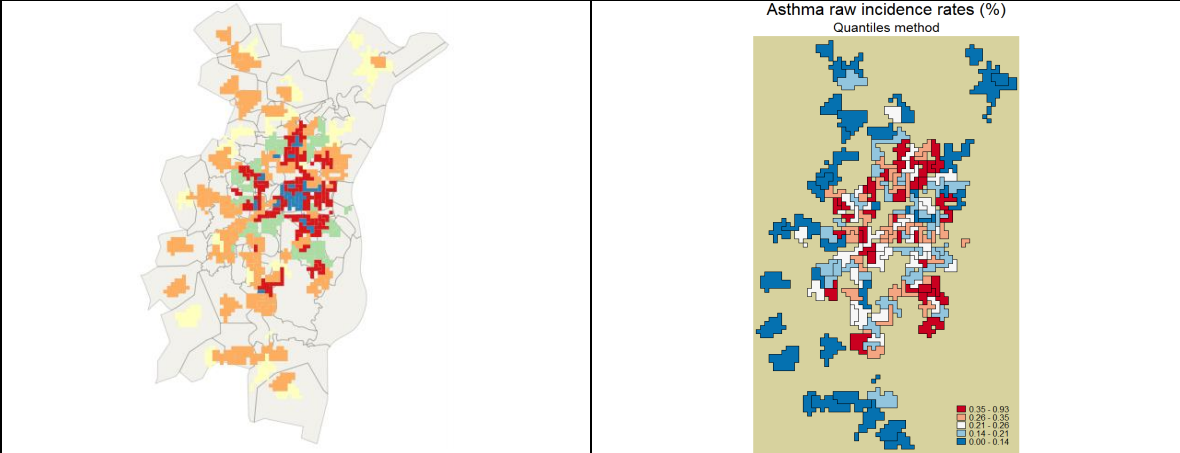
Meta-analysis: forest plot (*Stata*)



Time-Series Analysis (TSA) with GAMs: Distributed Lag Models (DLM) (package *dlm*)



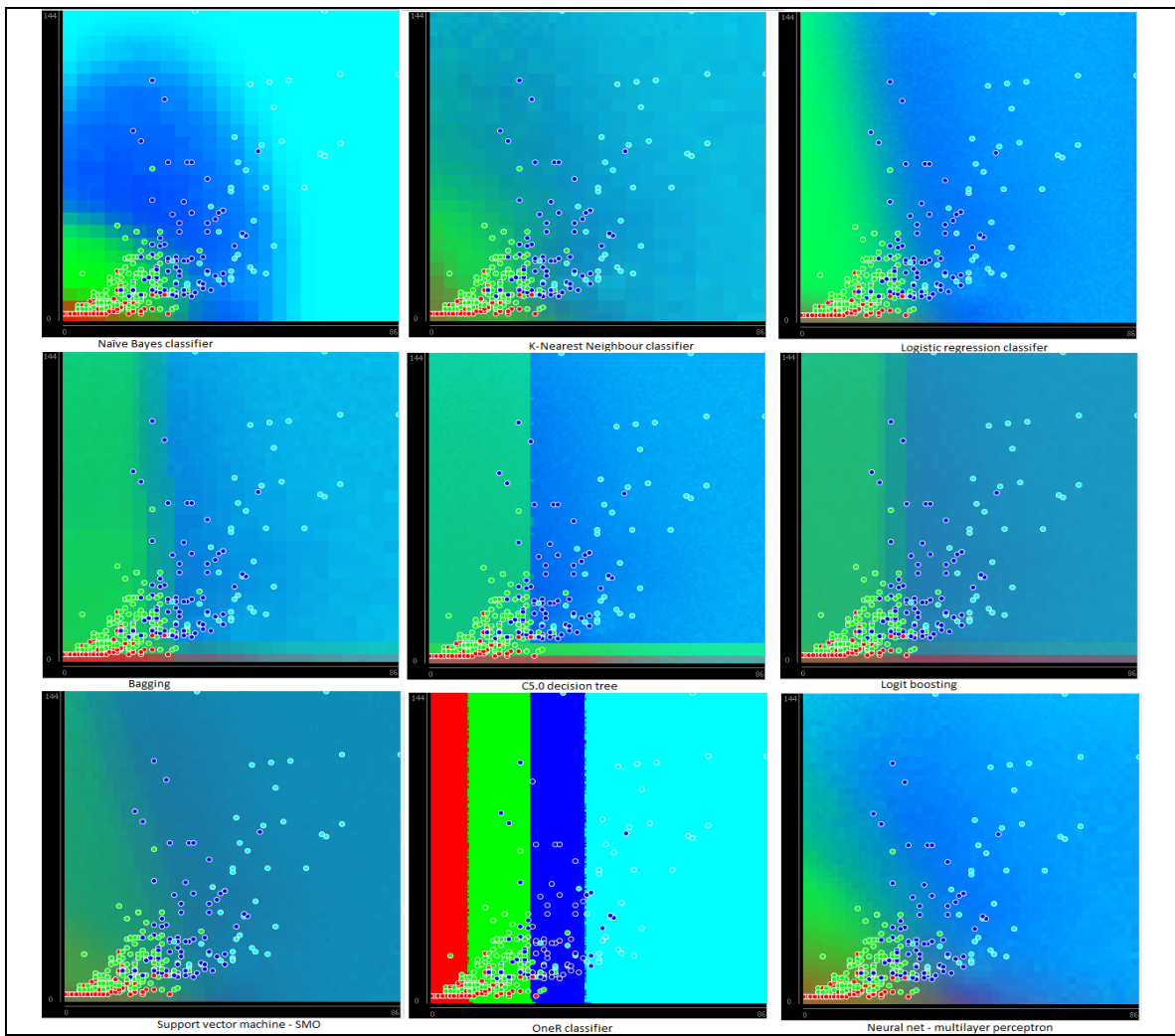
TSA with GAMs: DLM (package *dlm*)



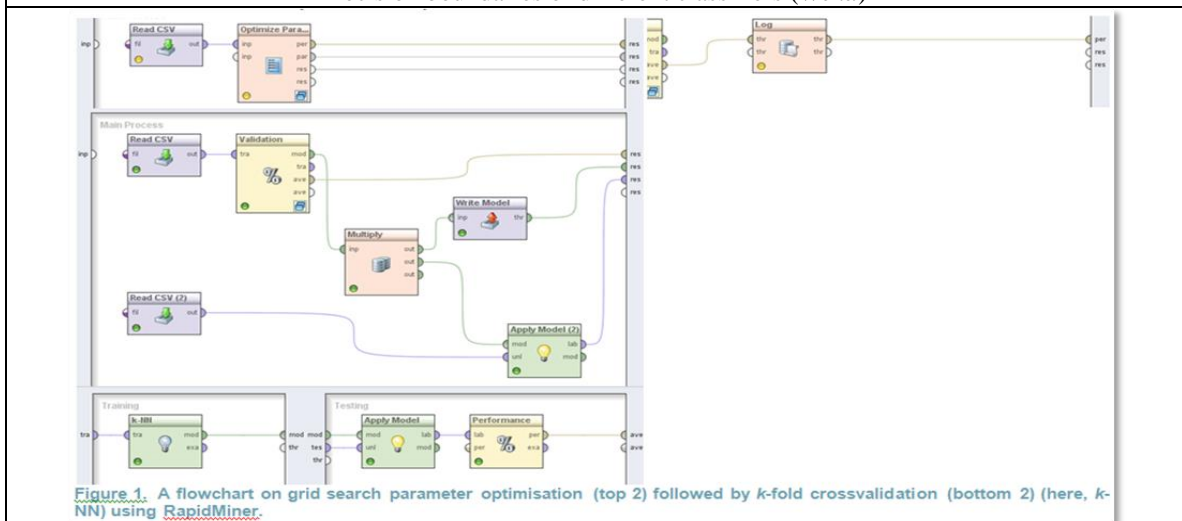
IRIS map overlaid by new zoning map showing neighbourhood deprivation index (QGIS)

Raw incidence rates in the new zonings (Stata)



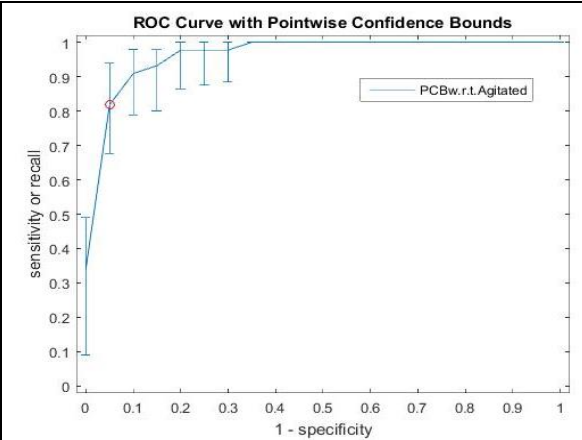


Decision boundaries of different classifiers (*Weka*)

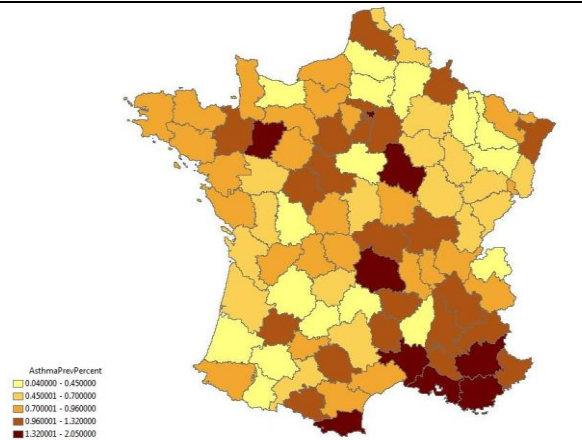


Parameter optimisation & predictive modelling flowchart (*RapidMiner*)

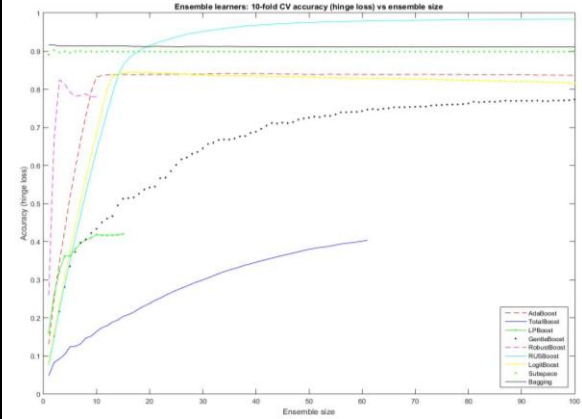




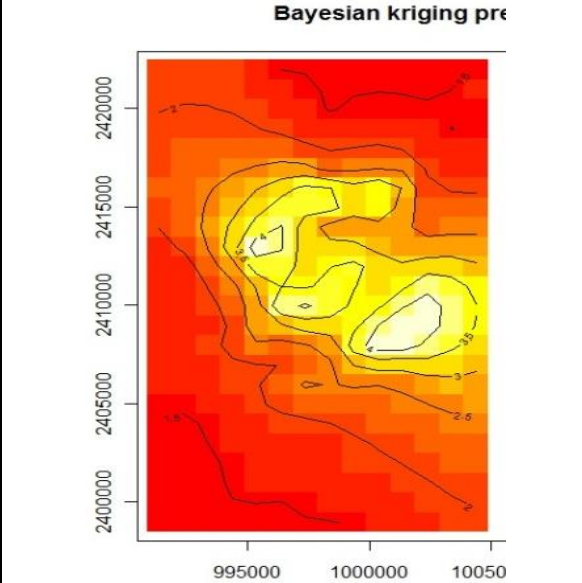
ROC curve with bootstrapped 95% CI & optimal operating point (*Matlab*)



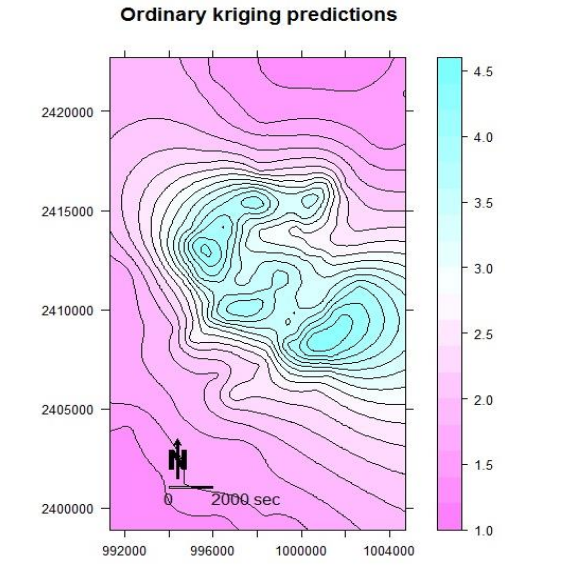
Prevalence % in France (*ArcGIS*) from the EGB cohort, map courtesy: NUTS3



Different ensemble learning methods compared (boosting, bagging, random subspace) (*Matlab*)



Bayesian Kriging of SES data (package *sgeostat*)



Kriging of SES data (package *gstat*)