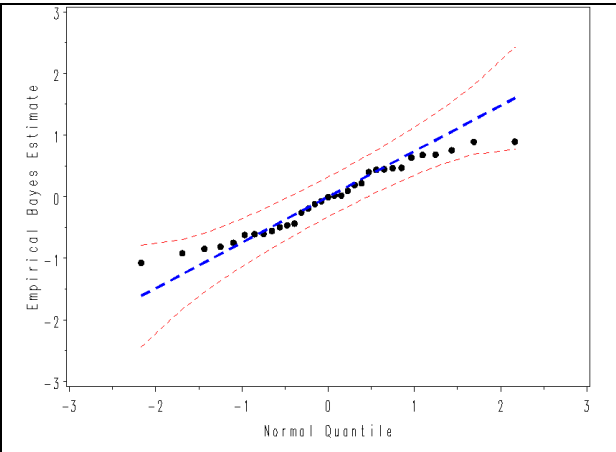
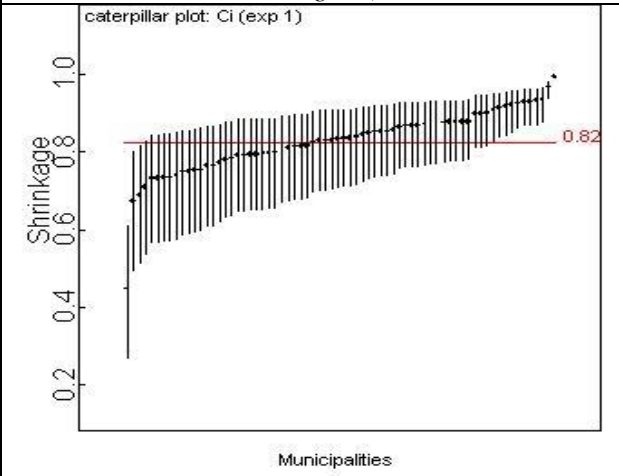


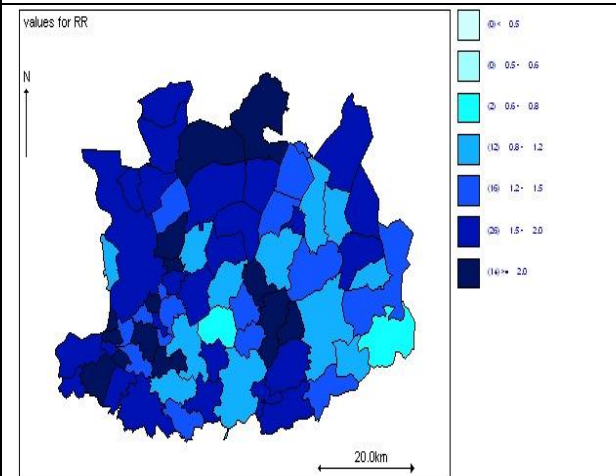
Semivariogram with ‘sine hole effect’ of air pollution data (showing nugget effect) (*proc krige2d, proc variogram*)



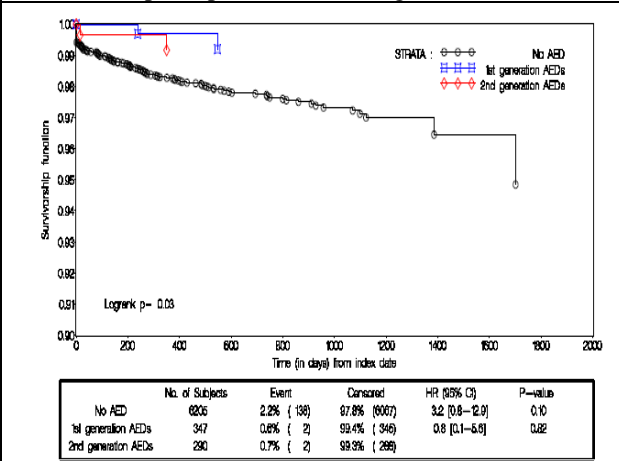
Empirical Bayes *qqplot* ($\pm 95\%$ CI) of random intercepts



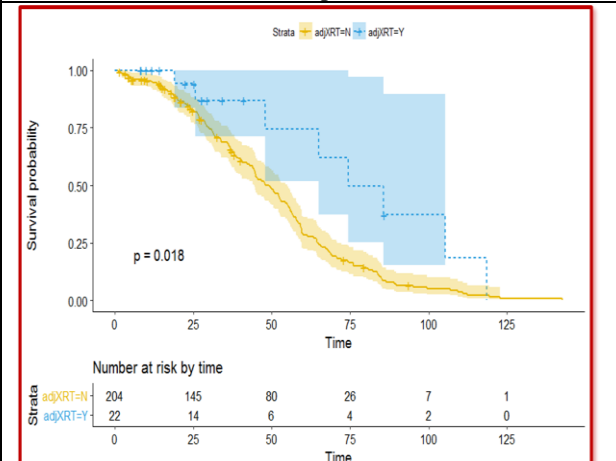
Disease mapping: ‘Bayesian shrinkage’ – ranked caterpillar plot in a Poisson-gamma model



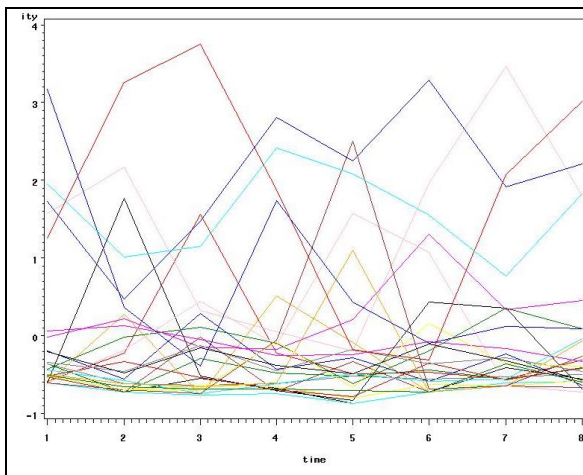
Disease mapping: CAR model of cervix cancer incidence in the Antwerp district (*WinBUGS*)



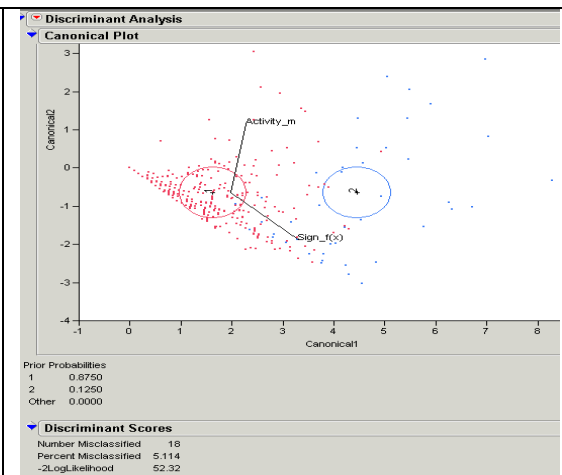
Suicide attempts ↓ with AED (any generation) treatment contrary to FDA alert (unmatched analysis)



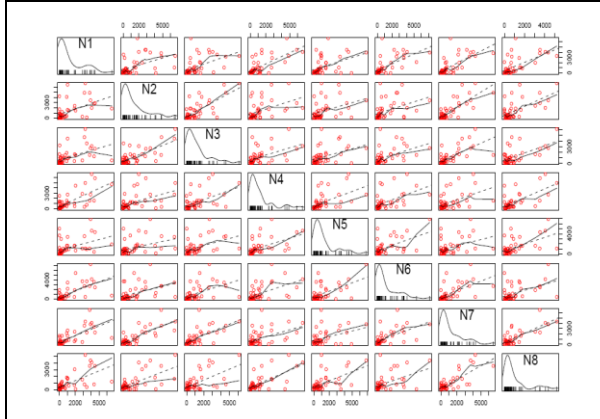
KM plot comparing RTX + CTX treated vs. untreated CRC patients (package *survminer*)



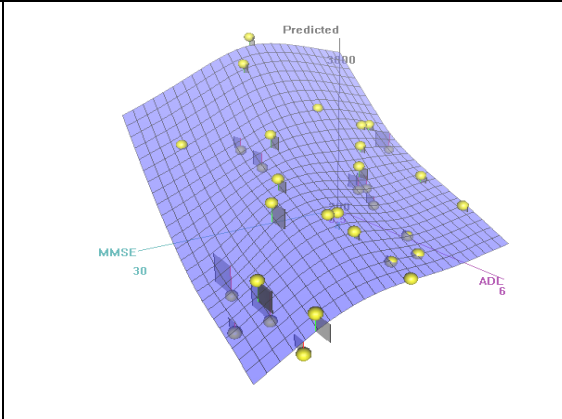
Tracking longitudinal data (*proc stdize*)



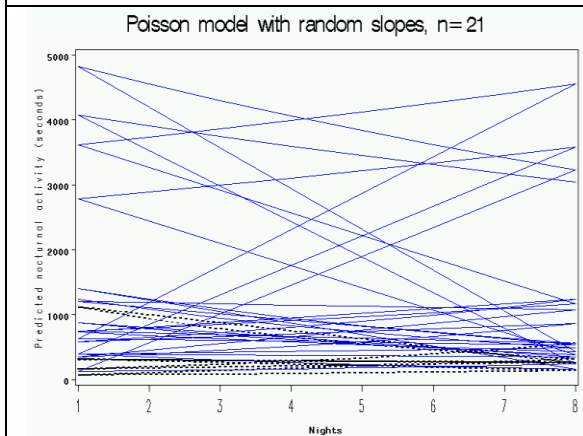
Linear empirical Bayes discrimination (*JMP*)



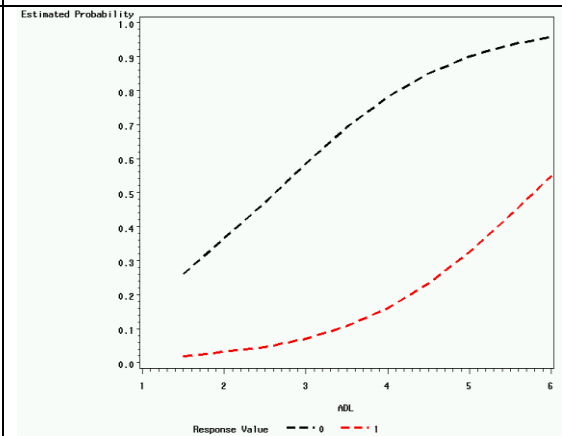
Correlation scatterplot between 8 repeated measurements; with diagonals showing right skewed 'multimodal' distribution



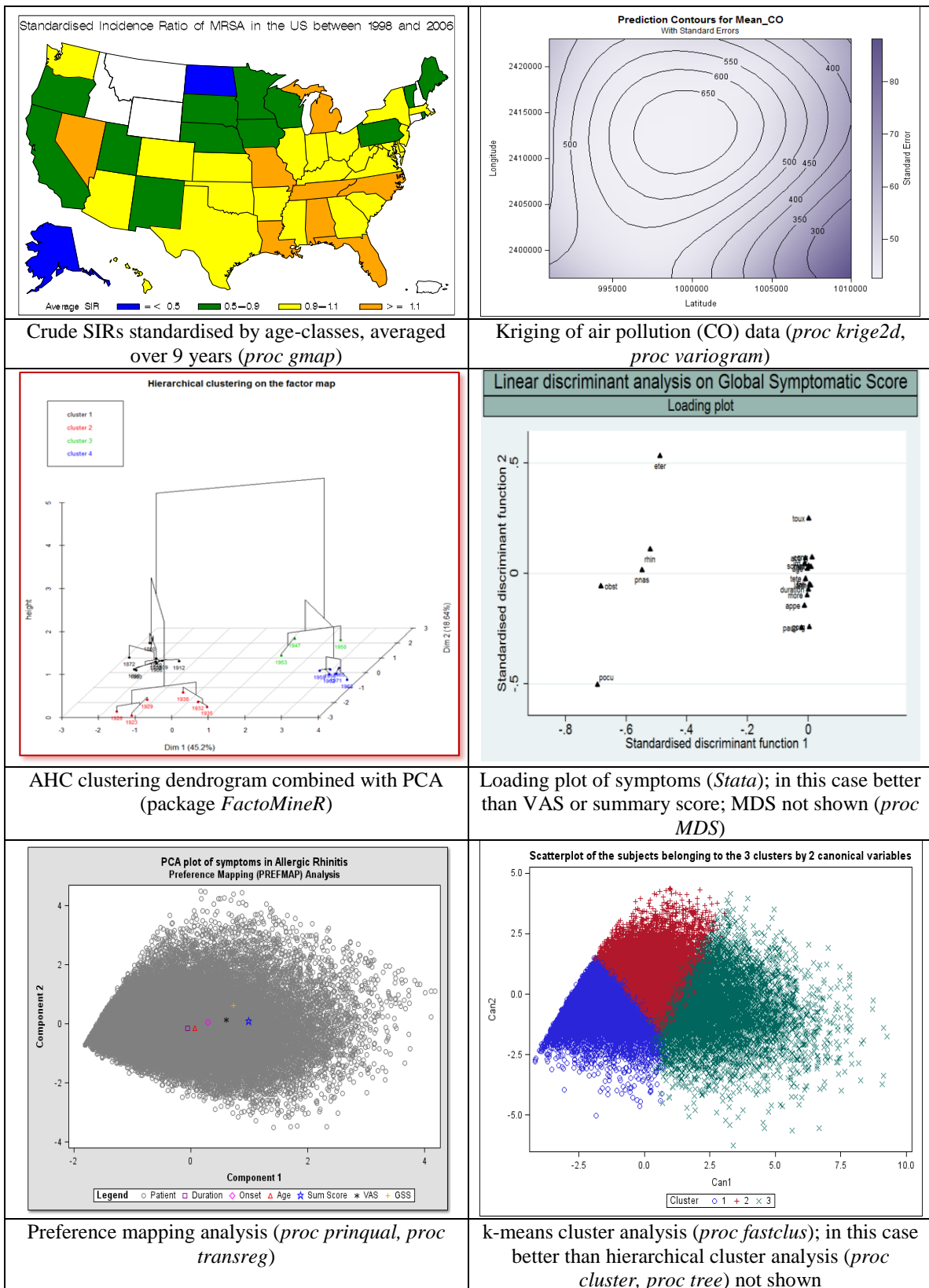
Spline-smoothed predicted response surface with squared residuals (screenshot during 360° rotation)

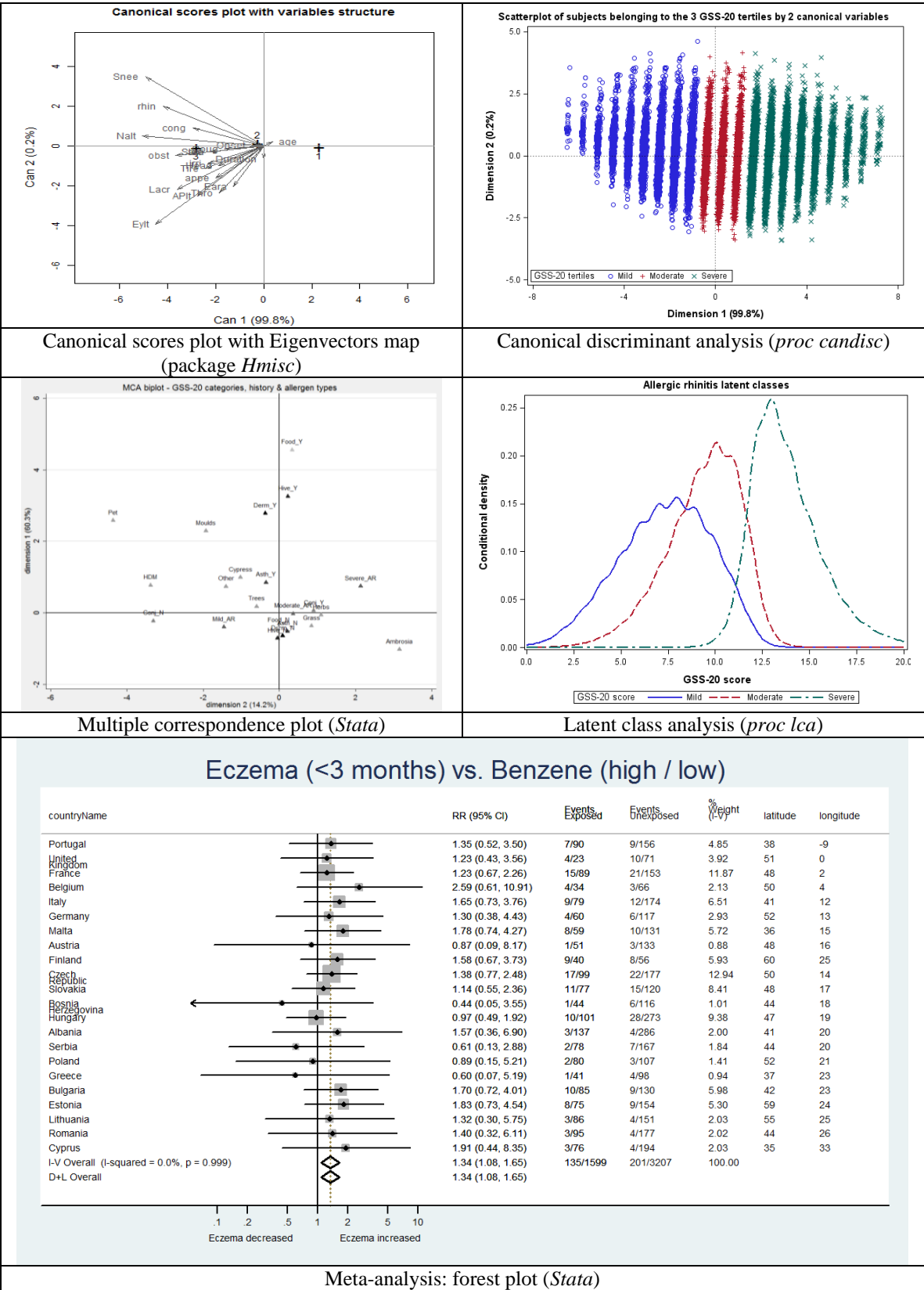


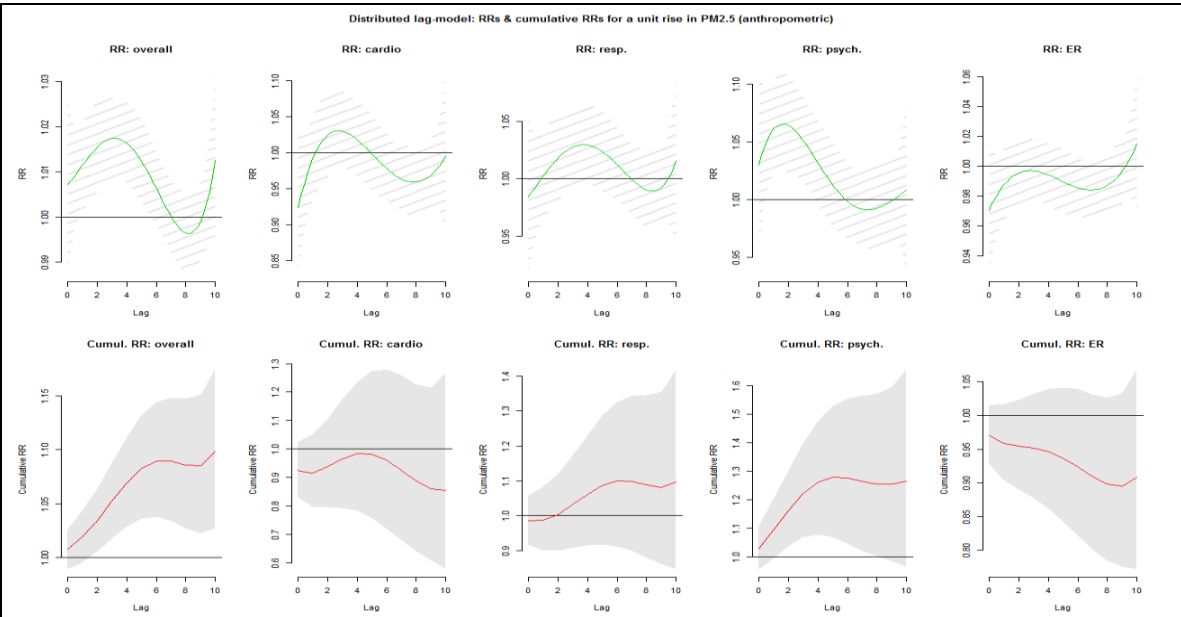
Random slopes by group: Poisson model (*proc nlmixed*)



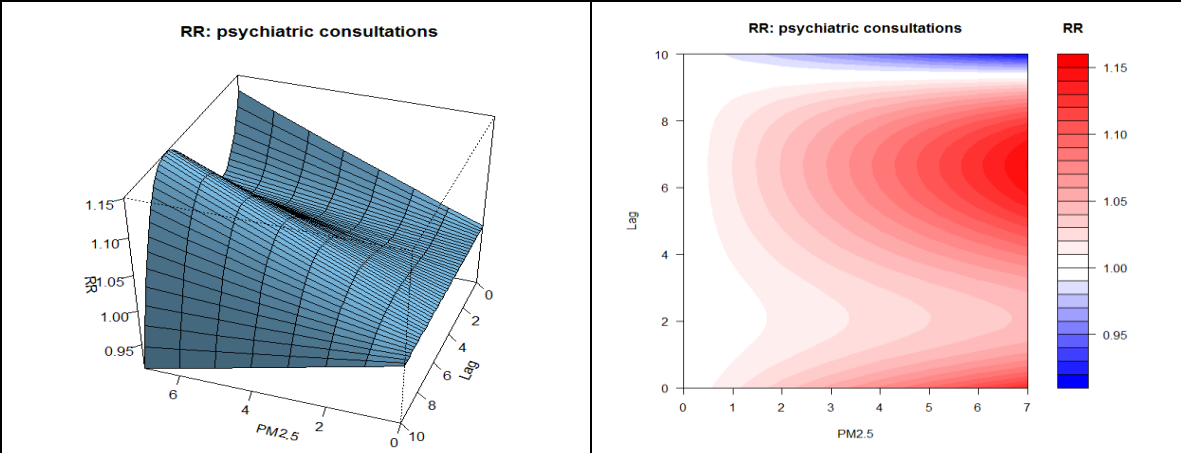
P-O model comparing 3 categories: 'worsening' (red), 'stable' (black) & 'improving' (reference) → subjects have a constant impact (OR) of ADL (exposure) across any level



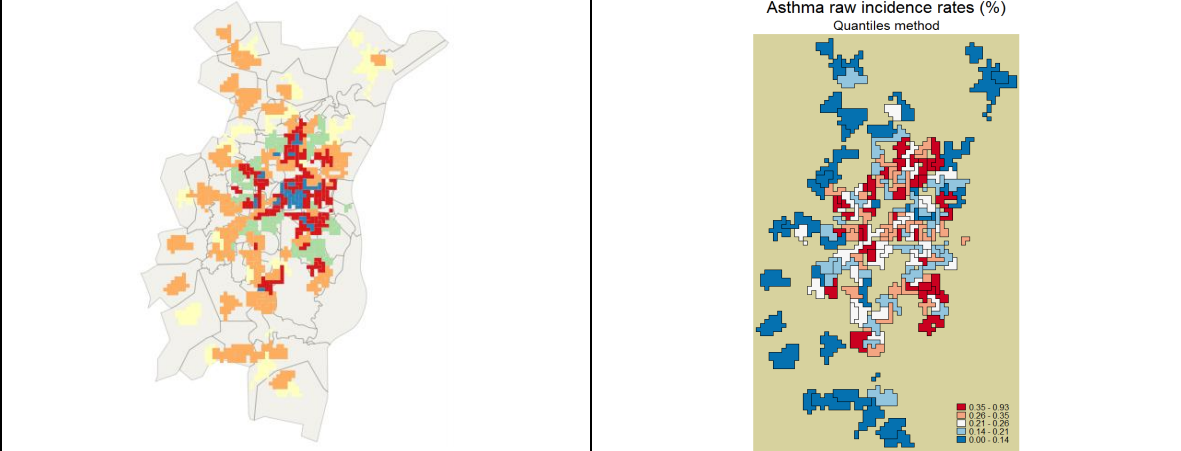




Time-Series Analysis (TSA) with GAMs: Distributed Lag Models (DLM) (package *dlm*)

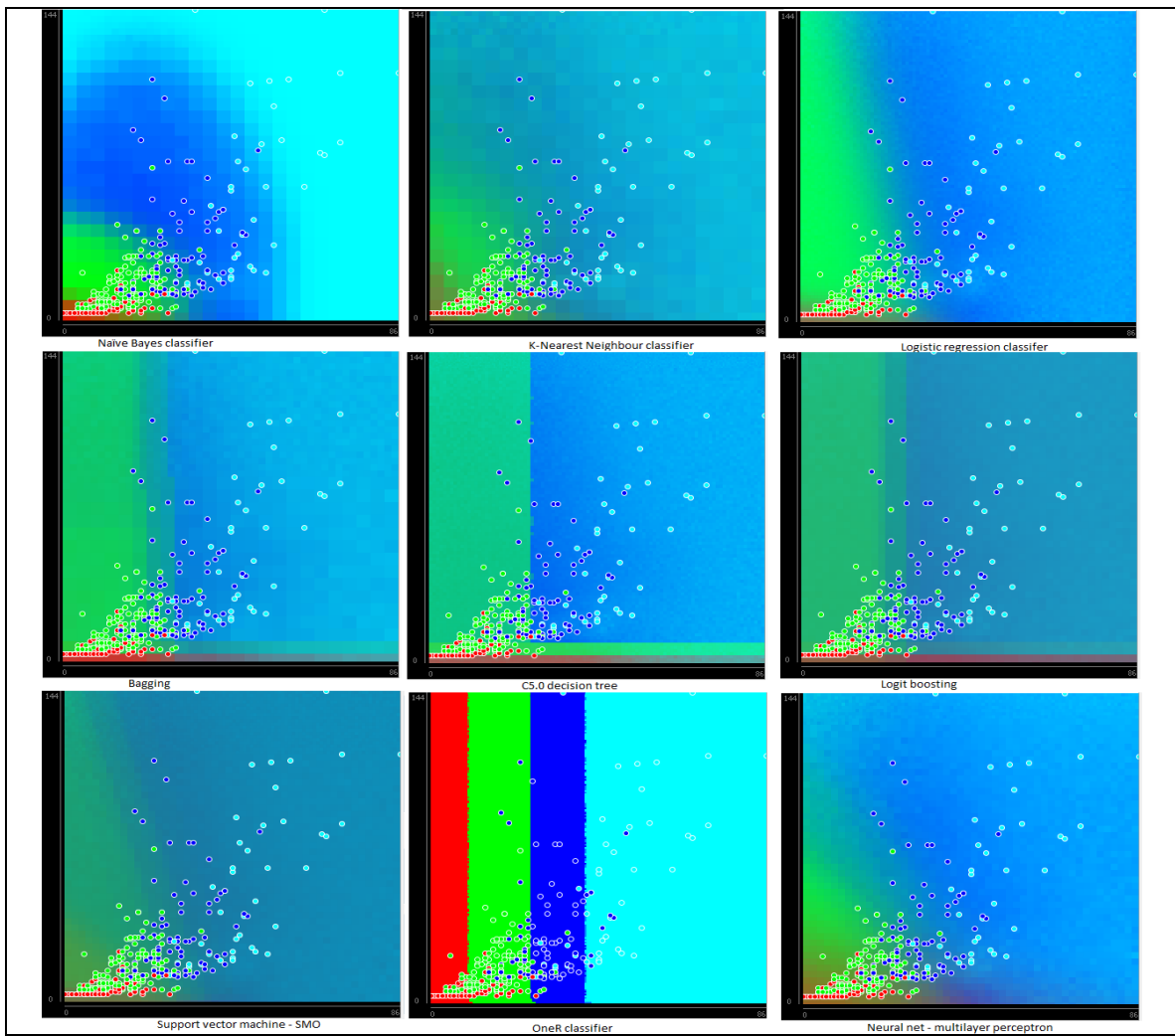


TSA with GAMs: DLM (package *dlm*)

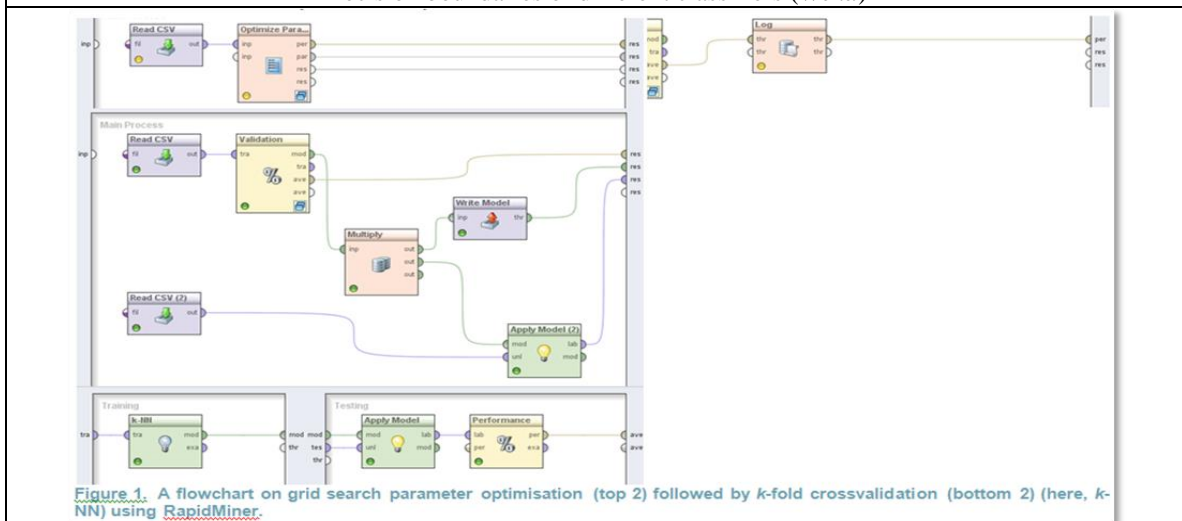


IRIS map overlaid by new zoning map showing neighbourhood deprivation index (*QGIS*)

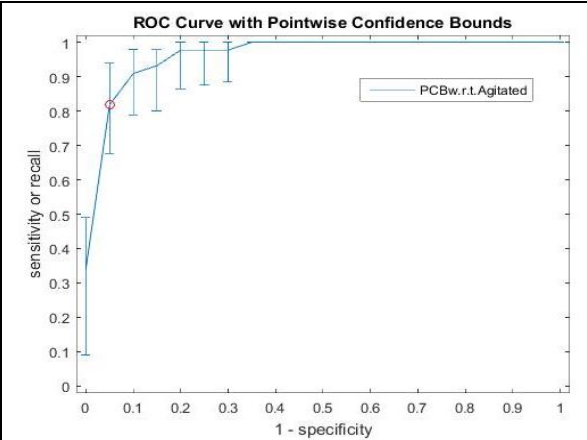
Raw incidence rates in the new zonings (*Stata*)



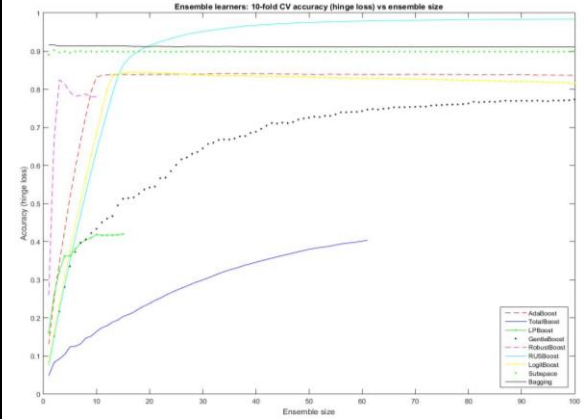
Decision boundaries of different classifiers (*Weka*)



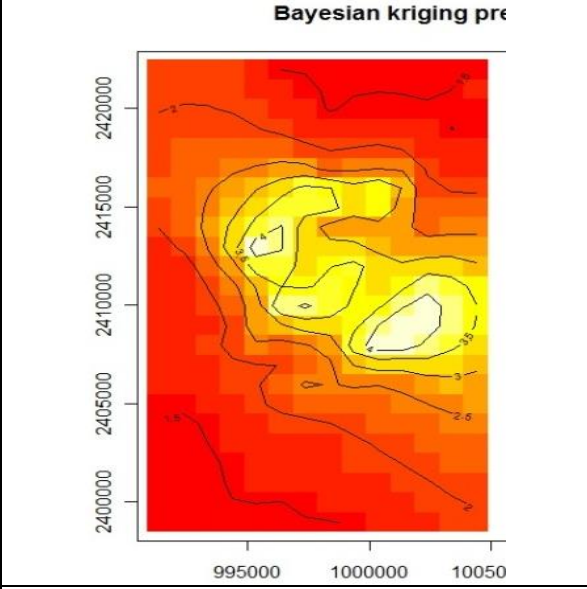
Parameter optimisation & predictive modelling flowchart (*RapidMiner*)



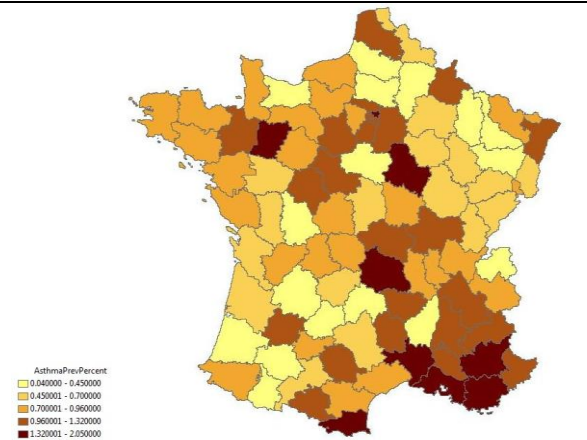
ROC curve with bootstrapped 95% CI & optimal operating point (*Matlab*)



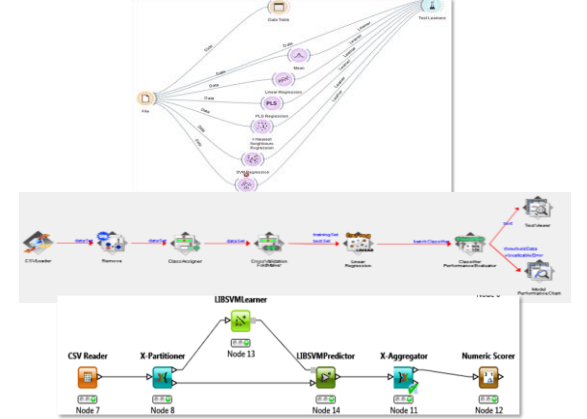
Different ensemble learning methods compared (boosting, bagging, random subspace) (*Matlab*)



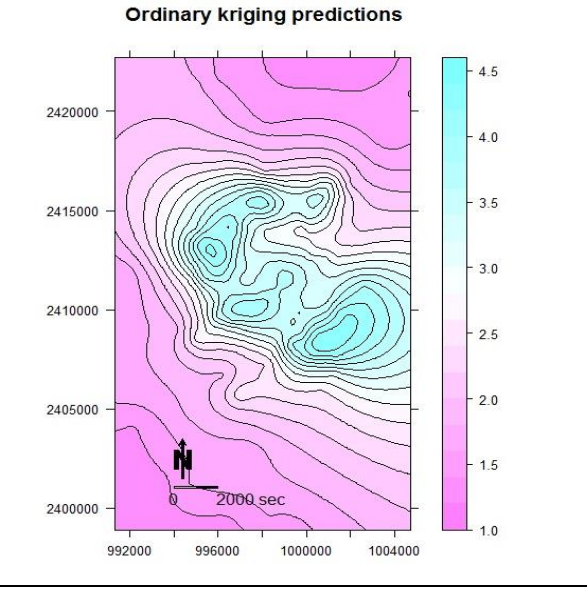
Bayesian Kriging of SES data (package *sgeostat*)



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



Predictive modelling process flow (*Orange miner, Weka, Knime*)



Kriging of SES data (package *gstat*)