Introducing mgcViz

Matteo Fasiolo

matteo.fasiolo@bristol.ac.uk

Material available at:

https://github.com/mfasiolo/workshop_WARSAW19

mgcViz: talk structure

The mgcv ecosystem:

- gamm4 generalized additive mixed model using 1me4 for estimation
- refund functional GAMs using mgcv estimation
- qgam quantile GAMs (last session)
- mgcViz GAM visualization using ggplot2 (next)
- and many others scam, vagam, GJRM, itsadug, ...

mgcViz: talk structure

mgcViz: why do we need it and how does it work?

- limitations of mgcv plotting methods
- mgcViz layer-based solution
- smooth effects plots
- diagnostic plots

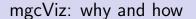
For detailed account see

Fasiolo, M., R. Nedellec, Y. Goude, and S. N. Wood (2018). Scalable visualisation methods for modern generalized additive models.

arXiv:1809.10632

or online training material

https://mfasiolo.github.io/mgcViz/index.html



Now we go to "mgcViz.html" for demonstration