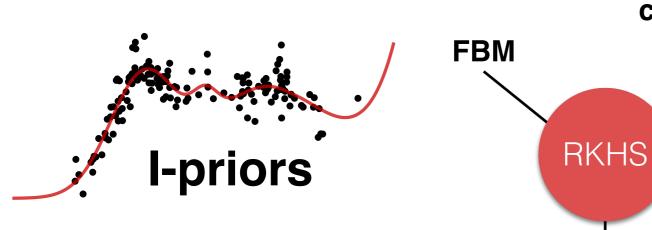


- additive models
- multilevel models
- models with functional covariates

### <u>Advantages</u>

- Minimal assumptions
- Straightforward inference
- Performance competetive



canonical

(linear)

**Pearson** 

Unified methodology for

- additive models
- multilevel models
- models with functional covariates

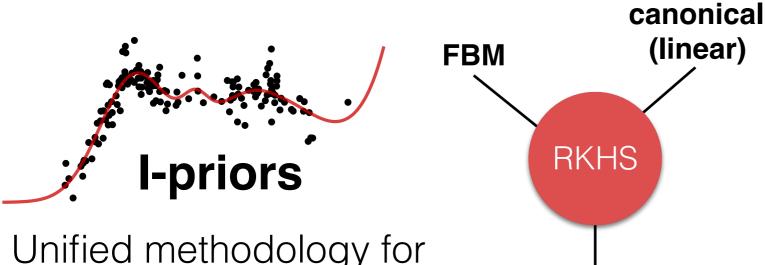
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# R/iprior

#### Estimation:

- Direct maximisation
- EM algorithm
- MCMC (Gibbs/HMC)



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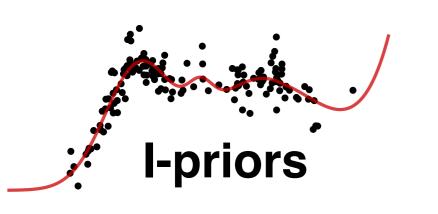
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## **Bayesian Variable Selection**

(using I-priors in the canonical RKHS)



Good performance in cases with multicollinearity





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# FBM (linear) RKHS Pearson

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## Binary probit models with I-priors

Extension to binary responses Estimation using variational inference

