Done & To-Be-Done

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1 Done

- 1. Normal
 - \bullet Sparse GP + normal random effect + normal error
 - Cosine basis + normal random effect + normal error
- 2. Binary
 - Sparse GP + normal random effect: probit
 - Cosine basis + normal random effect: probit
 - Cosine basis + normal random effect: logistic

2 To-Be-Done

- 1. GLM
 - (a) Normal
 - Cosine basis + DPM random effect + normal error
 - (b) Binary
 - Cosine basis + DPM random effect: probit
 - Cosine basis + DPM random effect: logistic
 - (c) Poisson
 - Cosine basis + normal random effect
 - Cosine basis + DPM random effect
 - (d) Negative Binomial
 - Cosine basis + normal random effect
 - Cosine basis + DPM random effect
 - (e) All the above
 - Apply shape restriction
- 2. Functional Data Analysis
 - (a) Function-on-function
 - Cosine basis + matrix normal random effect + matrix normal error

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- \bullet Cosine basis + matrix normal random effect + matrix DPM error
- \bullet Cosine basis + matrix DPM random effect + normal error
- \bullet Cosine basis + matrix DPM random effect + matrix DPM error