

# To-Do-List

Daeyoung Lim\*  
Department of Statistics  
Korea University

March 28, 2016

## GLMM

### 1. Normal

- Sparse GP + normal random effect + normal error
- cosine reg + normal random effect + normal error
  - normal random effect  $\implies$  DP random effect
  - DP Package
  - DP GLMM

### 2. Binary

- Sparse GP + normal random effect: probit
- cosine reg + normal random effect: probit
  - (a) test with terrorism data
  - (b) glndm package
  - (c) DP Package
  - (d) DP GLMM
- normal effect  $\implies$  DP random effect

### 3. Poisson

- Sparse GP + normal random effect + normal error
- cosine reg + normal random effect + normal error
  - normal random effect  $\implies$  DP random effect
  - DP Package
  - DP GLMM

### 4. Negative Binomial

- Sparse GP + normal random effect + normal error
- cosine reg + normal random effect + normal error
  - normal random effect  $\implies$  DP random effect
  - DP Package
  - DP GLMM

### 5. Mixture of experts

---

\*Prof. Taeryon Choi