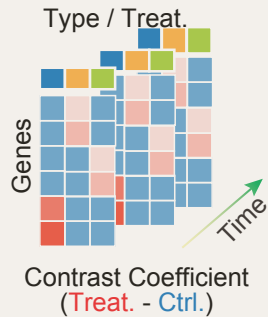


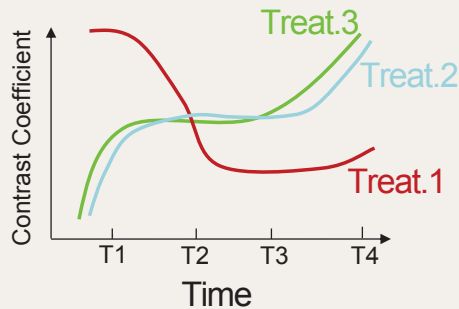
GLM

$$\gamma_{ng} \sim NB(\mu_{ng}, \phi_{ng})$$

$$\log \mu_{ng} \sim \underbrace{\beta_{gc} \rho_{gc}}_{\text{Cell type effect}} + \underbrace{\beta_{gp} \rho_{gp}}_{\text{Perturbation effect}} + \underbrace{\beta_{gcp} \rho_{gcp}}_{\text{Interaction}}$$



Time Warping
Functional Data Analysis



- Temporal Clustering
- Functional PCA
- Functional ANOVA
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