

Chapter 0: Overview

- Biomedical data: Statistical Methods

- Large Scale hypothesis Testing

- Large Scale Inference: Efron

- Predictive Modeling in HD data

- Graphical modeling

- Dimension Reduction

- All applications in biomedical data

Chp 1: Empirical Bayes & James - Stein Estimator

- $\mu \sim \pi(\cdot)$ $z | \mu \sim f_n(z)$

\tilde{L} data

$$g(\mu|z) = \frac{g(\mu) f_{\mu}(z)}{f(z)} \quad (\text{Posterior})$$

For HD testing