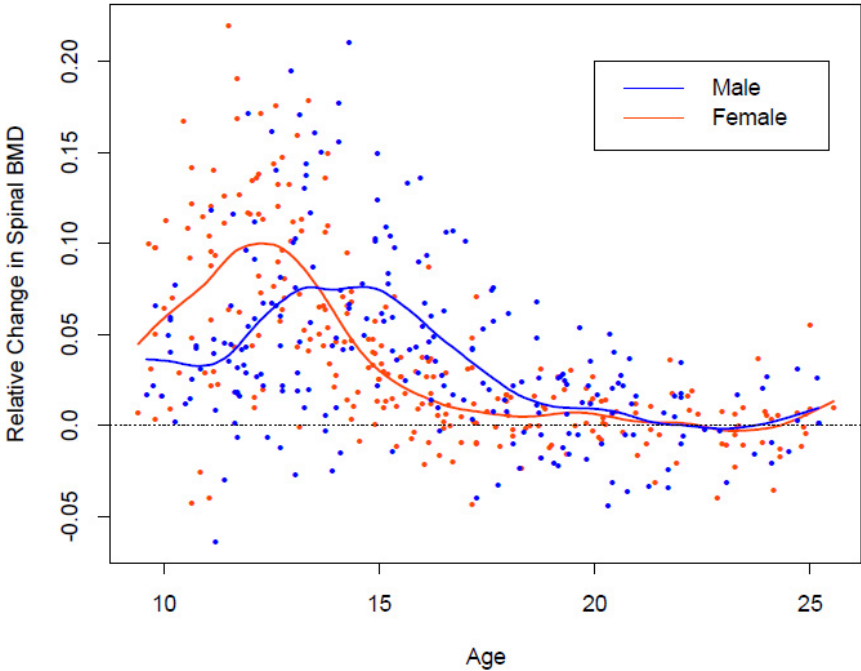
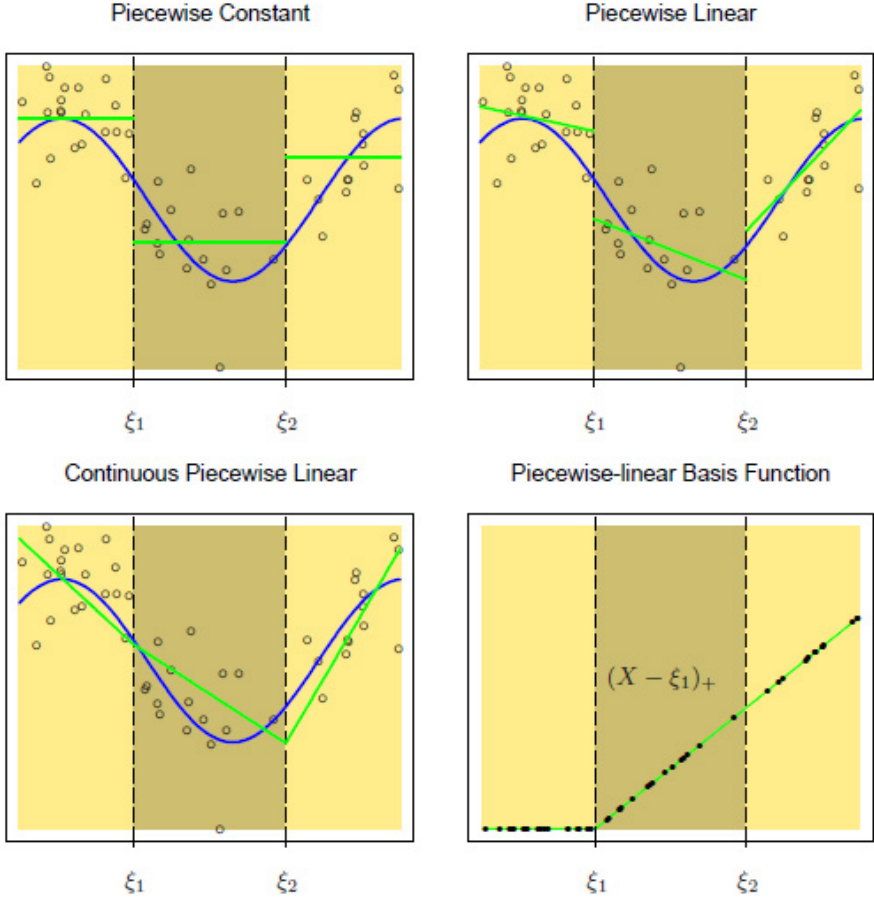


# Smoothing and Splines (Bo Lindqvist)

What is this about?



## **What is covered? Some highlights...**

Book: Elements of Statistical Learning (Hastie, Tibshirani, Friedman)

### *Chapter 5: Basis Expansions and Regularization*

- Piecewise Polynomials and Splines
- Natural Cubic Splines
- Smoothing Splines
- Degrees of Freedom and Smoother Matrices

### *Chapter 6: Kernel Smoothing Methods*

- Local Linear and Polynomial Regression
- Kernel Density Estimation and Classification
- Radial Basis Functions and Kernels
- Mixture Models for Density Estimation and Classification