Ridge Regression

Regularization Paths
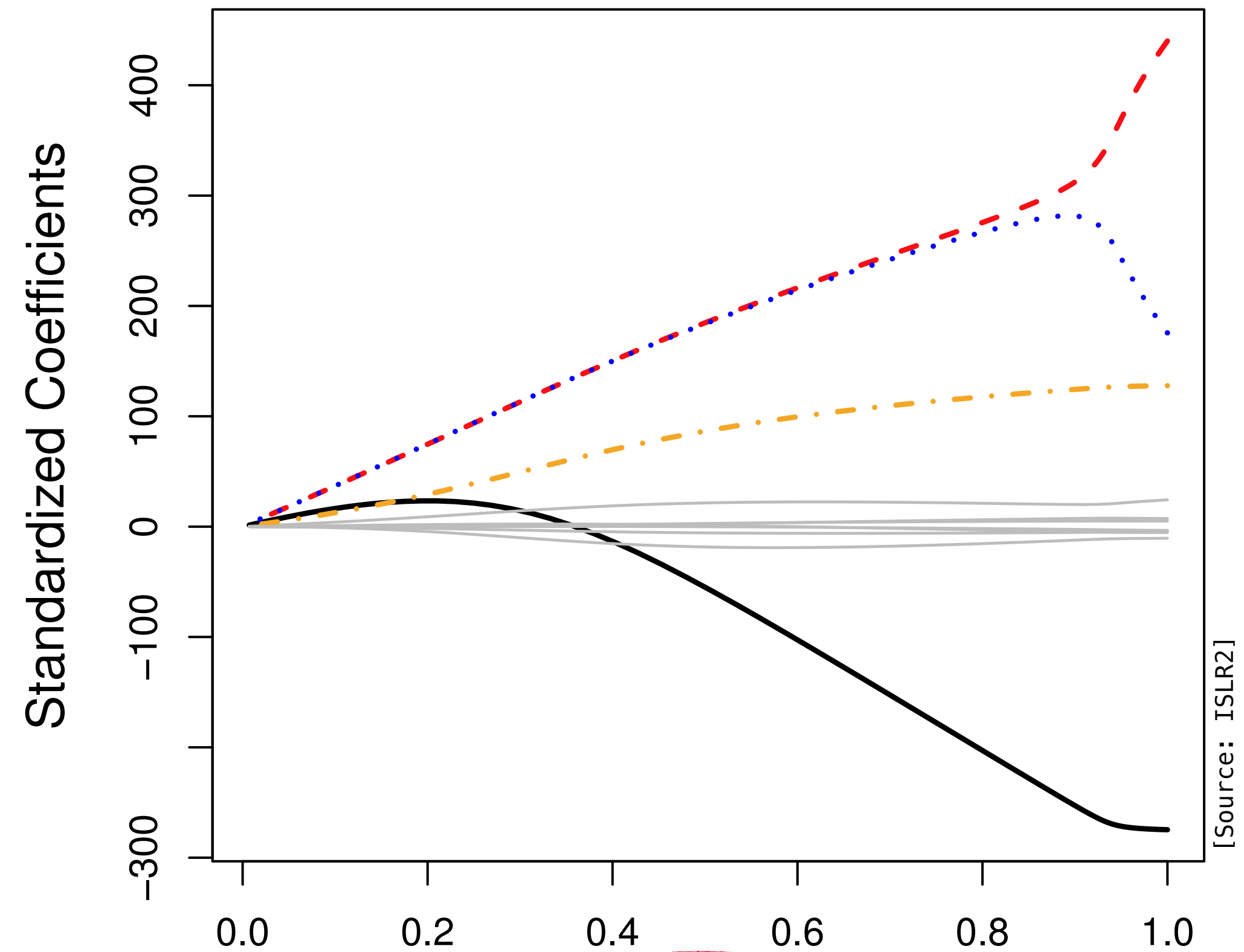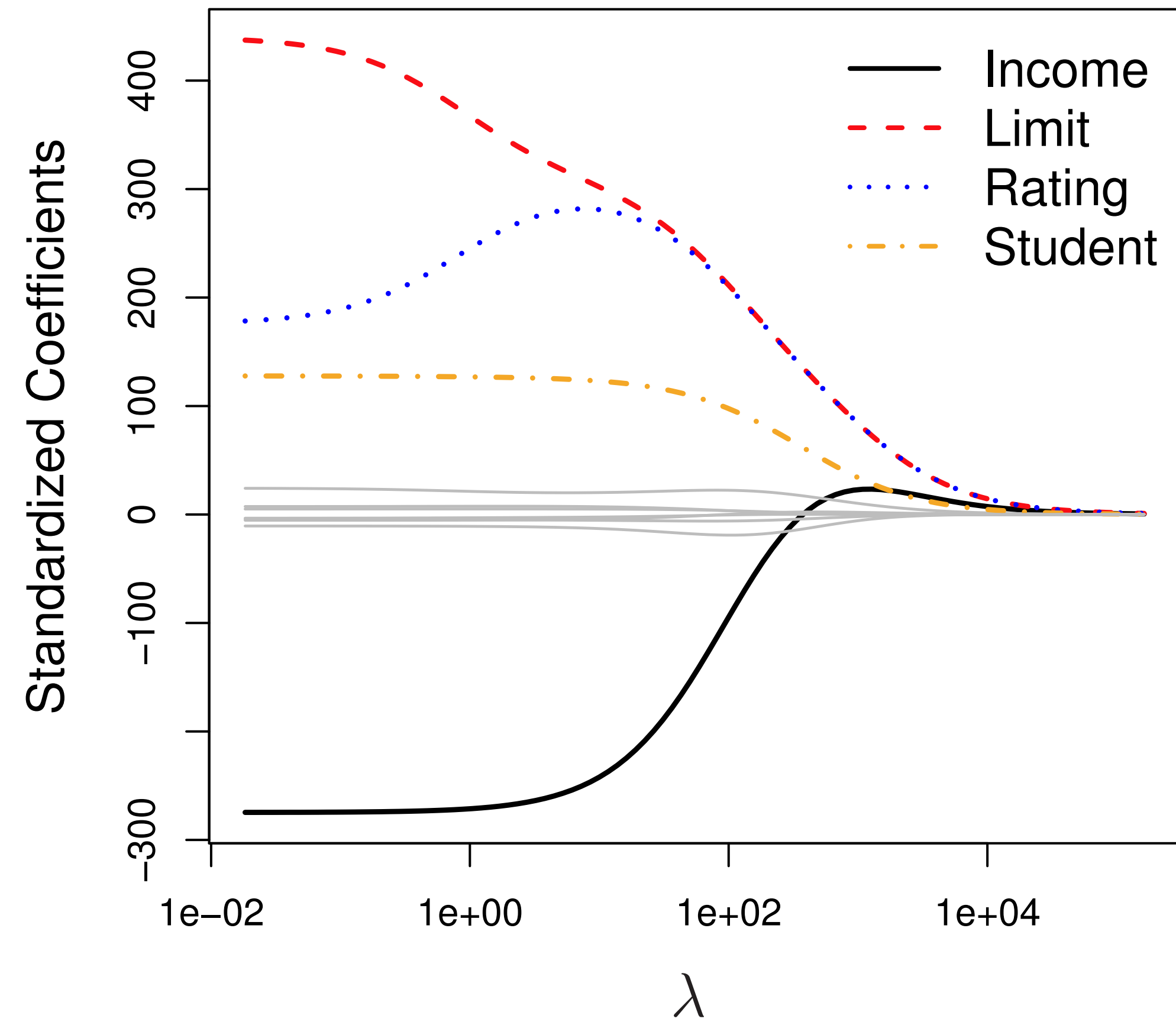
[Source: ISLR2]

$$\ell_2 \text{ norm} = \|\beta\|_2 = \sqrt{\sum_{j=1}^{p} \beta_j^2}$$

Ridge Regression

Advantage 1: Multicollinearity (a simulation study)