

The lasso, persistence, and cross-validation

Darren Homrighausen

Department of Statistics
Colorado State University

<http://www.stat.colostate.edu/~darrenho>

Joint work with:

Daniel J. McDonald

Indiana University, Bloomington

Suppose we have data

$$\mathcal{D}_n = \{(Y_1, X_1^\top), \dots, (Y_n, X_n^\top)\}$$

where

- $X_i = (X_{i1}, \dots, X_{ip})^\top \in \mathbb{R}^p$ are the features (covariates)
- $Y_i \in \mathbb{R}$ are the responses

The lasso