

HARVARD UNIVERSITY
DEPARTMENT OF STATISTICS



Tel. 617-495-5496
Fax. 617-496-8057
statdept@stat.harvard.edu
<http://www.stat.harvard.edu/>

Science Center 7th Fl.
One Oxford Street
Cambridge, MA 02138

STATISTICS COLLOQUIUM

MONDAY, OCTOBER 20, 2014

TALK: 4:15 PM — SCIENCE CENTER RM. 705

RECEPTION: 3:50 PM — SCIENCE CENTER, 7TH FLOOR

“Decoupled Shrinkage and Selection in Linear Models”

Carlos Carvalho
McCombs School of Business
University of Texas at Austin

ABSTRACT

Selecting a subset of variables for linear models remains an active area of research. This paper reviews many of the recent contributions to the Bayesian model selection and shrinkage prior literature.

A posterior variable selection summary is proposed, which distills a full posterior distribution over regression coefficients into a sequence of sparse linear predictors. Connections between popular penalized likelihoods methods and the Bayesian machinery for variable selection are discussed. A working version of the paper can be found at:

<http://faculty.mcombs.utexas.edu/carlos.carvalho/HahnCarvalhoDSS2014.pdf>