## New Parameter Reduction Methods

Simple Estimators of Coefficients of Interest in OLS Regression

James Ryan
McGill University - Department of Economics

## Introduction

In least-squares regression models, often an investigator wishes to focus on one or a few parameters out of the full set of regression coefficients. Omitting variables may bias the estimate of the parameter of interest, while including too many regressors leads to efficiency loss. Investigators may often select variables on an a priori basis, which may exclude important regressors, or use other modeling procedures which apply penalties to the regressors [4] in order to shrink and select regressors. A new method [2] may be employed which defines a small number of regressors of interest, computes

## **Contact Information:**

Department of Economics
McGill University
855 Sherbrooke Street West, Montréal, QC H3A 2T7

Phone: +1 (917) 881 4626

Email: j ames. ryan2@mail. mcgill.ca

