## MatchingFrontier: Computing the Balance-Sample Size Frontier in Matching Methods

Gary King
Harvard University

Christopher Lucas
Harvard University

Richard Nielsen MIT

## Abstract

**MatchingFrontier** implements the methods described in King, Lucas, and Nielsen (n.d.) for optimizing both balance and sample size. **MatchingFrontier** supports the computation of frontiers for both continuous and discrete metrics, and also provides functions for visualizing the frontier.

Keywords: R, matching, frontier, Mahalanobis, L1.

## 1. About Java

## **Affiliation:**

Gary King Department of Government Harvard University 1737 Cambridge St, Cambridge, MA, USA

E-mail: king@harvard.edu URL: http://gking.harvard.edu/

Christopher Lucas
Department of Government
Harvard University
1737 Cambridge St, Cambridge, MA, USA

E-mail: clucas@fas.harvard.edu URL: christopherlucas.org

Richard Nielsen Department of Political Science Massachusetts Institute of Technology 77 Massachusetts Avenue, Cambridge, MA, USA

E-mail: rnielsen@mit.edu

URL: http://www.mit.edu/rnielsen/index.htm