## BST 760: Advanced Regression Breheny

## Project 2

## Due: Thursday, April 25

There have been complaints in New York City (and elsewhere) that police harass members of ethnic minority groups (sometimes referred to as racial profiling). The course website contains data from a study commissioned by the New York State Attorney General's Office of the New York City Police Department (NYPD)'s "stop and frisk" policy. Records of all police stops over a 15-month period from 1998-1999 are provided, summarized at the precinct level. The following variables are recorded in the data set:

- Stops: Number of stops
- Pop: Population
- PastArrests: Number of arrests in 1997
- Precinct: The 75 precincts in the study are numbered 1-75
- Ethnicity: Black/Hispanic/White; stops involving other or mixed ethnic groups have been removed from this data set
- Crime: The type of crime involved (violent/weapons/property/drug)

The primary question is one of discrimination – if you find, for example, that 10% of the population is black, but that 20% of all stop-and-frisk encounters involve black residents, this would support the allegation of discrimination. However, if black residents also commit 20% of the crimes, then this perhaps changes the interpretation. It is up to you to decide which comparison is more relevant, or if both are relevant.

Analyze this data and report on the question of whether or not discrimination and racial profiling was an issue in New York during this time period. See http://web.as.uky.edu/statistics/users/pbreheny/760/S13/style-guide.pdf for details on how the report should be structured and how it will be graded.