

I. Introduction

- a. When one thinks of crime in America, Chicago is a city that often comes to mind. Donald Trump frequently discusses the issues of crime in Chicago. (<http://www.chicagotribune.com/news/local/politics/ct-donald-trump-congress-speech-chicago-met-20170228-story.html>) According to the Chicago Tribune, there were 4,367 shooting victims in Chicago in 2016. In the same year there were also 785 homicides. However, other reports cite that Chicago should not be called the “crime capital” of America. It’s violent rate is less than other cities such as St. Louis and Detroit. (Yale paper, pg. 3) This project examines crime in Chicago, specifically armed robberies, from 2011-2017.

II. Data

- a. The crime data used for this project comes from the City of Chicago’s website. (<https://data.cityofchicago.org/Public-Safety/Crimes-2001-to-present/ijzp-q8t2/data>) The data contains every reported crime in Chicago from 2001 to present day. In addition to the type of crime reported (battery, assault, etc.), there is information on the location, time, and other details. The data set was reduced to only armed robberies.
- b. Years 2003-2016 there is at least armed robbery every day

III. ARIMA Modeling

- a. Aggregated by “sides”

IV. Sources

- a. http://isps.yale.edu/sites/default/files/publication/2013/12/48yearsofcrime_final_ispsworkingpaper023.pdf