# Online Methods Appendix: Occupy the Government

#### APPENDIX A: SUPPLEMENTARY TABLES

**Table A1.** Keywords by Number of Arrests and Number of Cities with Occupy Arrests, 2009-2015

|                            | No Arrests       |        | 1-100 Arrests     |        | > 100 Arrests     |        | F-Test   |            |  |
|----------------------------|------------------|--------|-------------------|--------|-------------------|--------|----------|------------|--|
| President Obama            | N                | Mean   | N                 | Mean   | N                 | Mean   | F        | Bonferroni |  |
| Arrests <sup>1</sup>       |                  |        |                   |        |                   |        |          |            |  |
| Inequality Count           | 2323             | 4.25   | 172               | 8.73   | 15                | 14.53  | 28.14*** | Pass***    |  |
| Fair Share Count           | 2323             | 0.23   | 172               | 1.13   | 15                | 2.40   | 62.28*** | Pass***    |  |
| Arrests – Lag 1 Day        |                  |        |                   |        |                   |        |          |            |  |
| Inequality Count           | 2322             | 4.26   | 172               | 9.03   | 15                | 9.40   | 23.79*** | Fail       |  |
| Fair Share Count           | 2322             | 0.24   | 172               | 1.16   | 15                | 1.53   | 50.27*** | Pass***    |  |
| U.S. Congress              |                  |        |                   |        |                   |        |          |            |  |
| Arrests <sup>1</sup>       |                  |        |                   |        |                   |        |          |            |  |
| Inequality Count           | 2323             | 103.76 | 172               | 128.85 | 15                | 205.53 | 5.23**   | Fail       |  |
| Fair Share Count           | 2323             | 0.90   | 172               | 2.20   | 15                | 2.13   | 16.18*** | Fail       |  |
| Arrests – Lag 1 Day        |                  |        |                   |        |                   |        |          |            |  |
| Inequality Count           | 2322             | 104.76 | 172               | 115.84 | 15                | 206.67 | 3.60*    | Fail       |  |
| Fair Share Count           | 2322             | 0.92   | 172               | 1.76   | 15                | 3.33   | 10.64*** | Pass***    |  |
|                            | No Arrest Cities |        | 1-4 Arrest Cities |        | > 4 Arrest Cities |        | F-Test   |            |  |
| President Obama            | N                | Mean   | N                 | Mean   | N                 | Mean   | F        | Bonferroni |  |
| Arrest Cities <sup>1</sup> |                  |        |                   |        |                   |        |          |            |  |
| Inequality Count           | 2323             | 4.25   | 155               | 9.95   | 32                | 5.50   | 28.51*** | Fail       |  |
| Fair Share Count           | 2323             | 0.23   | 155               | 1.32   | 32                | 0.78   | 57.41*** | Pass*      |  |
| Arrest Cities – Lag 1 Day  |                  |        |                   |        |                   |        |          |            |  |
| Inequality Count           | 2322             | 4.26   | 155               | 9.43   | 32                | 7.28   | 24.52*** | Fail       |  |
| Fair Share Count           | 2322             | 0.24   | 155               | 1.17   | 32                | 1.25   | 50.27*** | Pass***    |  |
| U.S. Congress              |                  |        |                   |        |                   |        |          |            |  |
| Arrest Cities <sup>1</sup> |                  |        |                   |        |                   |        |          |            |  |
| Inequality Count           | 2323             | 103.76 | 155               | 130.48 | 32                | 156.91 | 3.92*    | Fail       |  |
| Fair Share Count           | 2323             | 0.90   | 155               | 2.15   | 32                | 2.44   | 16.30*** | Pass*      |  |
| Arrest Cities – Lag 1 Day  | 2222             | 10476  | 155               | 11/11  | 20                | 157.00 | 2.15     | E. 11      |  |
| Inequality Count           | 2322             | 104.76 | 155               | 116.11 | 32                | 157.09 | 2.15     | Fail       |  |
| Fair Share Count           | 2322             | 0.92   | 155               | 1.81   | 32                | 2.22   | 10.64*** | Pass**     |  |

Sources: (1) Congressional rhetoric taken from the daily U.S. congressional record, Jan 01, 2009 to February 12, 2016. (United States, Government Printing Office 2016). The data was downloaded and keyword terms were counted for each category using replicable

Python and Bash scripts (Author 2016a-c). (2) OccupyArrests (2014). Data shown from dates January 1, 2009 to November 15, 2015. Data truncated to show statistics for period of multivariate analysis.

Notes: Significance levels as follows: \*p<.05, \*\*p<.01, \*\*\*p<.001. F-test compares with Bonferroni pairwise comparisons. Bonferroni pairwise comparisons illustrate the difference between each of the possible pairwise comparisons between the keyword and arrests or arrest cities. In the Bonferroni column, I highlight the three most important pairwise comparisons of the arrests and arrests cities. In the Bonferroni column, I highlight the three most important pairwise comparisons of the arrests and arrests and a statistically vicinificant difference between (1) progressive and 1, 100. categories versus no arrests or no arrest cities. If there was a statistically significant difference between (1) no arrests and 1-100 arrests AND (2) no arrests and > 100 arrests, I denote this condition a "pass." Likewise if there was a statistically significant difference between (1) no arrest cities and 1-4 arrest cities AND (2) no arrest cities and > 4 arrest cities, I denote this condition a "pass." If any of these three failed, I denote a "fail." For passes, I indicate the most conservative probability level of each Bonferroni comparison.

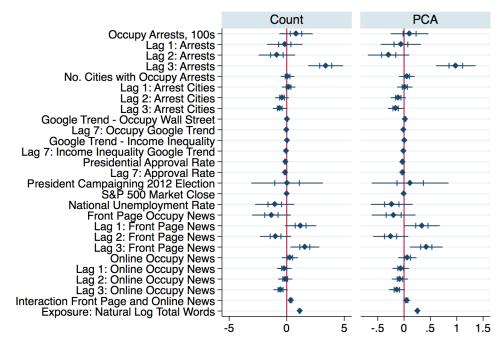
**Table A2.** ARFIMA Models: President's Speech on Inequality and Fair Share, 2009-2015 *Table Corresponding to Coefficient Plots Displayed in Table 4 of the Article* 

|  | Inequality  |  |   |  | Fair Share   |  |  |  |  |  |
|--|---|--|---|--|--|--|--|--|--|--|
|  | (1) Count   |  | (2) PCA   |  | (3) Count  |  | (4) PCA  |  |  |  |
| VARIABLES  | Beta  | SE   | Beta  | SE   | Beta   | SE   | Beta   | SE   |  |  |
| Occupy Wall Street Protesters Arrested (100's) Base: Arrests Today Lag 1: Arrests Yesterday Lag 2: Arrests Two Days Past Lag 3: Arrests Three Days Past  | 1.05<br>-0.76<br>-1.84*<br>2.70***                    | (0.71)<br>(0.77)<br>(0.78)<br>(0.74)           | 0.19<br>-0.21<br>-0.56**<br>0.79***                   | (0.17)<br>(0.19)<br>(0.19)<br>(0.18)           | 0.05<br>-0.28**<br>-0.41***<br>1.07***             | (0.09)<br>(0.10)<br>(0.10)<br>(0.10)           | 0.04<br>-0.49***<br>-0.70***<br>2.01***            | (0.12)<br>(0.13)<br>(0.13)<br>(0.12)           |  |  |
| Public Perception Controls U.S. Google Trend: "Occupy Wall Street"‡ Base: Occupy Google Trend Current Date Lag 7: Occupy Google Trend Last Week  | 0.04<br>-0.05   | (0.06)<br>(0.05)                               | 0.02<br>-0.02   | (0.02)<br>(0.01)                               | 0.04***<br>0.00                                    | (0.01)<br>(0.01)                               | 0.09***<br>-0.00                                   | (0.01)<br>(0.01)                               |  |  |
| U.S. Google Trend: "Income Inequality"‡ Base: Inequality Google Trend Current Date   | 0.06*   | (0.02)   | 0.01*   | (0.01)   | 0.00   | (0.00)   | -0.00  | (0.00)   |  |  |
| Lag 7: Inequality Google Trend Last<br>Week  | -0.04   | (0.02)   | -0.01   | (0.01)   | -0.01*   | (0.00)   | -0.01  | (0.00)   |  |  |
| Political Controls Presidential Approval Rate ‡ Base: Presidential Approval Current Date Lag 7: Presidential Approval Last Week President Campaigning for 2012 Election                          | -0.14<br>-0.17<br>0.64                                | (0.11)<br>(0.11)<br>(1.64)                     | -0.03<br>-0.04<br>0.27                                | (0.03)<br>(0.03)<br>(0.39)                     | -0.02<br>0.00<br>0.33                              | (0.01)<br>(0.01)<br>(0.20)                     | -0.03<br>0.00<br>0.63**                            | (0.02)<br>(0.02)<br>(0.24)                     |  |  |
| Current Economic Conditions Controls<br>S&P 500 Market Close ‡<br>National Unemployment Rate ‡   | -0.00<br>-0.70  | (0.00)<br>(0.93)                               | -0.00<br>-0.16  | (0.00)<br>(0.22)                               | -0.00<br>-0.08                                     | (0.00)<br>(0.11)                               | -0.00<br>-0.12                                     | (0.00)<br>(0.14)                               |  |  |
| Media Coverage of Occupy Wall Street Major World Newspapers, Front Page Coverage Base: Front Page Occupy News Today  | -1.73   | (0.93)   | -0.31   | (0.23)   | -0.35**  | (0.12)   | -0.45**  | (0.15)   |  |  |
| Lag 1: Front Page Occupy News<br>Yesterday   | 1.29  | (0.75)   | 0.36  | (0.18)   | 0.47***  | (0.10)   | 0.61***  | (0.12)   |  |  |
| Lag 2: Front Page Occupy Two Days<br>Past  | -1.15   | (0.75)   | -0.30   | (0.18)   | -0.10  | (0.10)   | -0.27*   | (0.12)   |  |  |
| Lag 3: Front Page Occupy Three Days Past   | 1.65*   | (0.69)   | 0.43*   | (0.17)   | 0.27**   | (0.09)   | 0.27*  | (0.11)   |  |  |
| Online News Coverage Base: Online News Today Lag 1: Online News Yesterday Lag 2: Online News Two Days Past Lag 3: Online News Three Days Past I1: Interaction Today's Front Page and Online News | 0.07<br>0.05<br>0.06<br>-0.62<br>0.49***              | (0.39)<br>(0.35)<br>(0.34)<br>(0.34)<br>(0.14) | 0.02<br>-0.01<br>-0.03<br>-0.15<br>0.08*              | (0.09)<br>(0.09)<br>(0.08)<br>(0.08)<br>(0.04) | 0.00<br>-0.08<br>-0.13**<br>-0.28***               | (0.05)<br>(0.05)<br>(0.04)<br>(0.04)<br>(0.02) | -0.16*<br>-0.13*<br>-0.21***<br>-0.42***           | (0.06)<br>(0.06)<br>(0.06)<br>(0.06)<br>(0.02) |  |  |
| Constant   | 30.04   | (15.60)  | 5.60  | (3.74)   | 2.25   | (1.97)   | 2.69   | (2.37)   |  |  |
| AR-1<br>AR-2<br>MA-1<br>D<br>Sigma <sup>2</sup>  | 0.56***<br>-0.08**<br>-0.73***<br>0.37***<br>74.07*** | (0.05)<br>(0.03)<br>(0.06)<br>(0.06)<br>(2.10) | 0.54***<br>-0.10***<br>-0.66***<br>0.33***<br>4.42*** | (0.05)<br>(0.03)<br>(0.08)<br>(0.06)<br>(0.12) | 0.48***<br>-0.04<br>-0.63***<br>0.30***<br>1.25*** | (0.06)<br>(0.03)<br>(0.08)<br>(0.06)<br>(0.04) | 0.45***<br>-0.05<br>-0.59***<br>0.27***<br>2.00*** | (0.07)<br>(0.03)<br>(0.09)<br>(0.07)<br>(0.06) |  |  |
| Log Likelihood<br>AIC<br>BIC<br>N  | -8929.27<br>17914.55<br>18077.62<br>2500              |  | -5404.34<br>10864.67<br>11027.75<br>2500              |  | -3830.97<br>7717.94<br>7881.01<br>2500             |  | -4414.70<br>8885.41<br>9048.48<br>2500             |  |  |  |

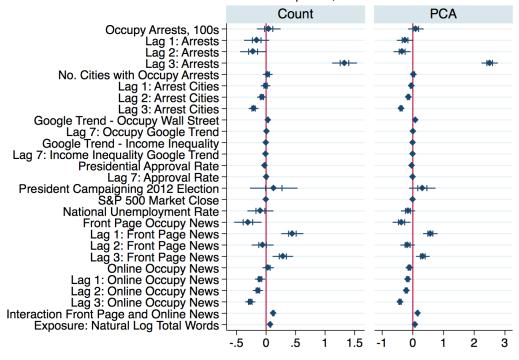
Note: Significance levels using z-test. +p<0.1, \*p<.05, \*\*p<.01, \*\*\*p<.001. Terms, designated by ‡, imputed to carry over last value or convert to a daily scale. Models 1-4: ARFIMA models of count data and PCA of count data with OIM S.E., respectively.

Table A3. ARFIMA Models of President Obama's Speech with Exposure Term, 2009-2015

# President's Modeled Inequality Speech, 2009-2015



# President's Modeled Fair Share Speech, 2009-2015



Note: Significance levels using z-test. Confidence bars in coefficient plot represent the 95% confidence intervals around the point estimate. Models 1-4: ARFIMA (2, d, 1) models of count data and PCA of count data with OIM S.E., respectively for inequality and fair share rhetoric. N=2,500.

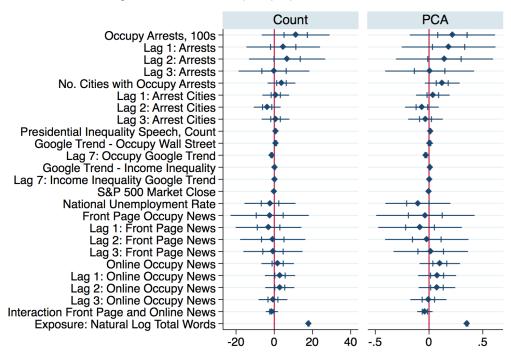
**Table A4.** ARFIMA Models: Congress's Speech on Inequality and Fair Share, 2009-2015 *Table Corresponding to Coefficient Plots Displayed in Table 5 of the Article* 

|  |   | ılity  | Fair Share  |  |   |  |  |  |
|--|---|--|---|--|---|--|--|--|
| VARIABLES  | (1) Count<br>Beta SE                                      |  | (2) PCA<br>Beta SE                                    |  | (3) Count<br>Beta SE                                  |  | (4) PCA<br>Beta SE                                   |  |
| -  | Deta  | 3E   | Deta  | 3E   | Deta  | 3E   | Deta   | 3E   |
| Number of Cities with Occupy Arrests Base: Arrest Cities Today Lag 1: Arrest Cities Yesterday Lag 2: Arrest Cities Two Days Past Lag 3: Arrests Cities Three Days Past | 10.21**<br>5.95<br>-3.63<br>-2.30                         | (3.84)<br>(4.08)<br>(3.98)<br>(3.87)             | 0.25**<br>0.15<br>-0.07<br>-0.11                      | (0.08)<br>(0.09)<br>(0.09)<br>(0.08)           | 0.22*<br>0.14<br>-0.11<br>-0.12                       | (0.09)<br>(0.09)<br>(0.09)<br>(0.09)           | 0.12**<br>0.10*<br>-0.04<br>-0.08                    | (0.04)<br>(0.04)<br>(0.04)<br>(0.04)           |
| President Obama's Speech Rhetoric  |   |  |   |  |   |  |  |  |
| President's Inequality Speech (Count)<br>President's Fair Share Speech (Count)   | 0.81***   | (0.23)   | 0.01*   | (0.01)   | 0.15***   | (0.05)   | 0.10***  | (0.02)   |
| Public Perception Controls U.S. Google Trend: "Occupy Wall Street"‡ Base: Occupy Google Trend Current Date   | -0.66   | (1.00)   | -0.02   | (0.02)   | -0.01   | (0.02)   | -0.01  | (0.01)   |
| Lag 7: Occupy Google Trend Last Week U.S. Google Trend: "Income Inequality"‡   | -0.66<br>-1.69  | (1.00)<br>(0.92)                                 | -0.02   | (0.02)   | -0.01<br>-0.01  | (0.02)   | -0.01<br>-0.01                                       | (0.01)   |
| Base: Inequality Google Trend Current Date Lag 7: Inequality Google Trend Lagt   | 0.69  | (0.41)   | 0.02  | (0.01)   | 0.01  | (0.01)   | 0.01   | (0.00)   |
| Lag 7: Inequality Google Trend Last<br>Week  | 0.47  | (0.41)   | 0.01  | (0.01)   | 0.01  | (0.01)   | -0.00  | (0.00)   |
| Current Economic Conditions Controls<br>S&P 500 Market Close ‡<br>National Unemployment Rate ‡   | -0.05<br>6.02   | (0.05)<br>(11.60)                                | -0.00<br>0.03   | (0.00)<br>(0.25)                               | 0.00<br>0.08  | (0.00)<br>(0.23)                               | 0.00<br>0.08   | (0.00)<br>(0.09)                               |
| Media Coverage of Occupy Wall Street<br>Major World Newspapers, Front Page<br>Coverage   |   |  |   |  |   |  |  |  |
| Base: Front Page Occupy News Today Lag 1: Front Page Occupy News   | -3.27   | (11.67)  | -0.06   | (0.25)   | -0.11   | (0.29)   | -0.06  | (0.14)   |
| Yesterday Lag 2: Front Page Occupy Two Days  | 0.96  | (12.04)  | -0.02   | (0.26)   | -0.24   | (0.25)   | -0.14  | (0.12)   |
| Past Lag 3: Front Page Occupy Three Days   | 0.53  | (12.27)  | 0.02  | (0.26)   | 0.07  | (0.25)   | 0.01   | (0.12)   |
| Past Online News Coverage  | -0.56   | (9.32)   | 0.05  | (0.20)   | -0.10   | (0.22)   | -0.03  | (0.11)   |
| Base: Online News Today<br>Lag 1: Online News Yesterday<br>Lag 2: Online News Two Days Past<br>Lag 3: Online News Three Days Past                                      | 5.20<br>6.59<br>6.52<br>3.68                              | (4.70)<br>(5.08)<br>(5.02)<br>(4.51)             | 0.16<br>0.13<br>0.15<br>0.08                          | (0.10)<br>(0.11)<br>(0.11)<br>(0.10)           | 0.16<br>0.21<br>0.03<br>-0.05                         | (0.12)<br>(0.11)<br>(0.11)<br>(0.11)           | 0.09<br>0.12*<br>0.05<br>-0.03                       | (0.06)<br>(0.05)<br>(0.05)<br>(0.05)           |
| I1: Interaction Today's Front Page and Online News   | 0.07  | (1.74)   | -0.02   | (0.04)   | -0.05   | (0.05)   | -0.03  | (0.02)   |
| Constant   | 92.22   | (151.24)   | 1.31  | (3.24)   | -0.22   | (2.99)   | -0.88  | (1.20)   |
| AR-1<br>AR-2<br>MA-1<br>D<br>Sigma <sup>1</sup>  | 1.03***<br>-0.50***<br>-0.50***<br>0.21***<br>13525.19*** | (0.03)<br>(0.02)<br>(0.05)<br>(0.04)<br>(382.55) | 1.00***<br>-0.47***<br>-0.49***<br>0.21***<br>6.33*** | (0.03)<br>(0.02)<br>(0.05)<br>(0.04)<br>(0.18) | 0.78***<br>-0.21***<br>-0.61***<br>0.21***<br>7.56*** | (0.06)<br>(0.02)<br>(0.07)<br>(0.05)<br>(0.21) | 0.84***<br>-0.18***<br>-0.68***<br>0.16**<br>1.68*** | (0.07)<br>(0.02)<br>(0.10)<br>(0.06)<br>(0.05) |
| Log Likelihood<br>AIC<br>BIC<br>N  | -15438.23<br>30928.46<br>31079.88<br>2500                 |  | -5855.06<br>11762.13<br>11913.55<br>2500              |  | -6076.44<br>12204.88<br>12356.31<br>2500              |  | -4198.70<br>8449.40<br>8600.82<br>2500               |  |

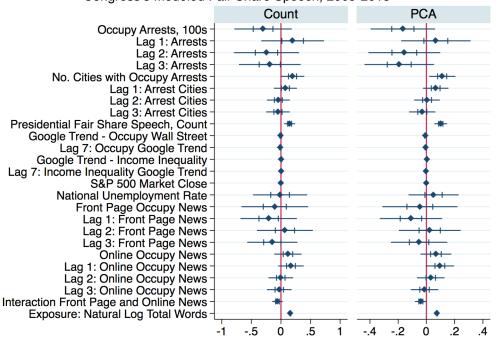
Note: Significance levels using z-test. +p<0.1, \*p<.05, \*\*p<.01, \*\*\*p<.001. Terms, designated by \$\psi\$, imputed to carry over last value or convert to a daily scale. Models 1-4: ARFIMA models of count data and PCA of count data with OIM S.E., respectively.

Table A5. ARFIMA Models of Congress's Speech with Exposure Term, 2009-2015

# Congress's Modeled Inequality Speech, 2009-2015



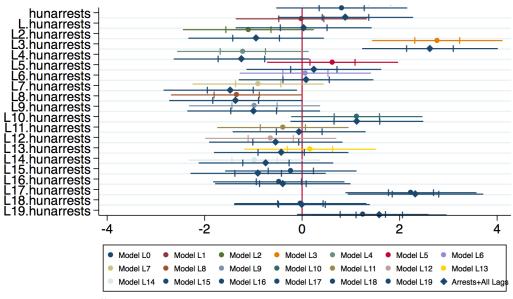
#### Congress's Modeled Fair Share Speech, 2009-2015



Note: Significance levels using z-test. Confidence bars in coefficient plot represent the 95% confidence intervals around the point estimate. Models 1-4: ARFIMA (2, d, 1) models of count data and PCA of count data with OIM S.E., respectively for inequality and fair share rhetoric. N=2,500.

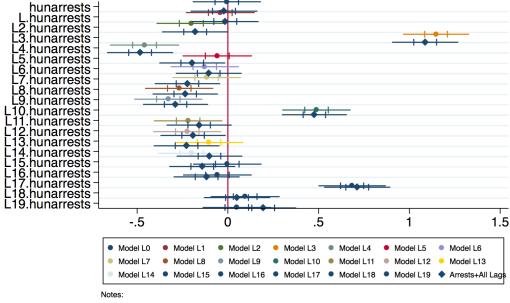
Table A6. Coefficient Plots of Discrete Lags versus Collective Model with All Lags

Discrete versus Collective Models of President's Inequality Speech, 2009-2015



- Models for Count Data
- Autoregressive Fractionally Integrated Moving Average (Long Memory) Model with AR-1 and AR-2, and MA-1 Terms

Discrete versus Collective Models of Congress's Fair Share Speech, 2009-2015

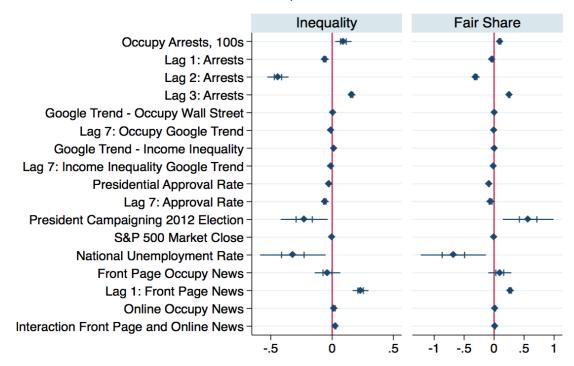


Models for Count Data
 Autoregressive Fractionally Integrated Moving Average (Long Memory) Model with AR-1 and AR-2, and MA-1 Terms

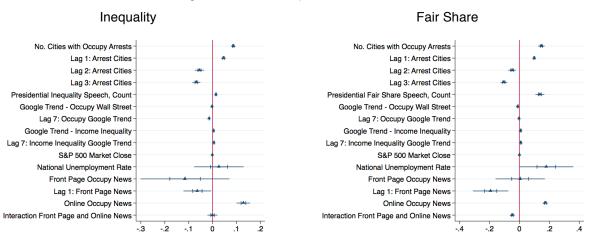
Note: Significance levels using z-test. Confidence bars in coefficient plot represent the 95% confidence intervals around the point estimate. Models 1-4: ARFIMA (2, d, 1) models of count data and PCA of count data with OIM S.E., respectively for inequality and fair share rhetoric. N=2,500.

Table A7. Negative Binomial Models of Presidential and Congressional Speech, 2009-2015

# President's Modeled Speech, 2009-2015



# Congress's Modeled Speech, 2009-2015



*Note:* Significance levels using z-test. Confidence bars in coefficient plot represent the 95% confidence intervals around the point estimate. Generalized negative binomial models of count data using (HAC), Newey-West S.E., respectively for inequality and fair share rhetoric. N=2,500.

#### APPENDIX B: SPEECH CLASSIFIER KEY WORDS AND PHRASES

Full code for the Presidential Speech Classifier can be found online (Author 2016c). The following terms were used in the speech classifier script. Not all categories were fully utilized. As previously indicated, the keyword categories follow Occupy's purpose to fight "the corrosive power of major banks and multinational corporations over the democratic process,...the role of Wall Street in creating an economic collapse,...[and] the richest 1% of people that are writing the rules of an unfair global economy" (Occupy 2011). Research using surveys, qualitative assessments, and computational techniques reiterates these essential ideas (DeTar 2012; DeLuca, Lawson, and Sun 2012; Gould-Wartofsky 2015; Krugman 2011a; Milkman, Luce, and Lewis 2013a-b). For example, the Occupy Wall Street survey (DeTar 2012) asked protest participants to list the top three keywords that motivated them to participate. Perhaps unsurprising, "income inequality, "inequality, "corporate influence in politics," and "corporate greed" were all top responses. Through these ideas we can see the central tenant that the top 1% are writing their rules to the unfair world economy, and should like everyone else pay their fair share and play by the same rules. In an alternate survey by Milkman, Luce, and Lewis (2013a), 47.5% of Occupy participants indicated that "Inequality/the 1%" was a top motivating concern in supporting Occupy. Similarly, 25.5% and 18.5% indicated that "money in politics/frustration with D.C." and "corporate greed" were top reasons for support. I operationalize my work by examining political rhetoric for discussion of these same topics. The keywords used for categories are as follows:

#### Table B1. Discrete Keywords by Speech Category Used by Python NLP Script (Author 2016c)

#### Inequality Keywords and Phrases

inequality = ["wealth", "wealthy", "income equality", "income inequality", "inequality", "privileged", "rich", "1%", "1 percent", "one percent", "99%", "99 percent", "ninety-nine percent", "ninety nine percent", "fair", "unfair", "fairness", "unfairness", "middle-class", "middle class", "working class", "working-class", "lower class", "poor", "poverty", "rich", "upper class", "equity", "inequity", "egalitarian", "disparity", "unequal", "average American", "average Americans", "Wall Street", "Main Street", "main street", "50 million", "Warren Buffet", "Warren Buffett's secretary", "secretary", "class warfare", "class warefare", "warrior for the middle class", "Giving everybody a shot", "giving everybody a shot", "everybody a fair shot", "work your way up", "working your way up", "starting at the bottom", "blood, sweat and tears", "blood sweat and tears", "blood, sweat, and tears", "willing to work hard", "fair and just", "everybody is included", "folks at the top", "folks at the bottom"]

#### Fair Share Keywords and Phrases

fair\_share = ["fair shot", "fair shake", "gets a fair shake", "pay their fair share", "our fair share", "fair share"]

#### Wall Street Keywords and Phrases

wall\_street = ["lobby", "lobbying", "lobbies", "special interest", "special interests", "revolving door", "campaign donor", "campaign donations", "bidder", "highest bidder", "campaign contributions", "loophole", "loopholes", "tax shelter", "tax evasion", "write their own rules", "own rules", "Wall Street", "bailout", "bailouts"]

# Corporate Greed Keywords and Phrases

corporate\_greed = ["cheat", "cheating", "stacked against", "stacked up against", "stacked against", "good benefits", "decent salary", "stack the deck", "deck got stacked against", "exploit", "exploiting", "protect workers", "protecting workers", "protect laborers", "protecting laborers", "protect Americans", "protecting Americans", "protect employees", "protecting employees", "work safe", "working safely", "safe at work", "work conditions", "innocent", "minimum wage", "pollute", "polluting", "regulate", "regulating", "federal oversight", "financial reform", "gambling", "derivative", "derivatives", "sub-prime", "risky investment", "risky investments", "bust unions", "union", "unions", "labor unions", "dirtiest air", "cheapest labor", "wages", "workplace safety", "Consumer Finance Protection Bureau", "consumer protection", "unions", "union label", "union workers", "CEO", "CEO's", "corporation", "corporations"]

Top Results from the Occupy Wall Street Survey of Keywords and Phrases (DeTar 2012)1

OWS survey = ["income inequality", "inequality", "economic conditions", "corruption", "justice", "corporate influence in politics", "corporations", "corporate personhood", "injustice", "social justice", "corporate greed", "anti-capitalism", "greed", "unemployment", "citizens united", "equality", "money in politics", "government corruption", "poverty", "environmental concerns", "democracy", "fairness", "freedom", "change", "inequity", "jobs", "money out of politics", "health care", "financial reform", "solidarity", "war", "movement building", "foreclosures", "frustration", "banks", "politics", "curiosity", "money", "campaign finance reform", "climate change", "education", "disparity", "bailouts", "future", "anger", "hope", "revolution", "humanity", "equity", "children", "police brutality", "rights", "community", "Oligarchy", "0.99", "fascism", "freedom of speech", "food", "civil liberties", "taxes", "peace", "plutocracy", "love", "corporate corruption", "joblessness", "campaign finance", "fraud", "Wall Street", "human rights", "compassion", "accountability", "NDAA", "debt", "tax the rich", "lobbyists", "broken political system", "agreement", "inequality", "corruption", "economy", "justice", "environment", "income inequality", "economic inequality", "healthcare", "capitalism", "corporatism", "economics", "social injustice", "income disparity", "political corruption", "government", "economic justice", "economic disparity", "economic injustice", "civil rights", "wealth disparity", "oppression", "racism", "patriarchy", "sustainability", "homelessness", "corporate power", "workers rights", "student loans", "wall street", "corrupt government", "exploitation", "accountability", "housing", "patriotism", "apathy", "responsibility", "corporations"]

<sup>&</sup>lt;sup>1</sup>*Note*: These specific terms are those indicated by Occupy Wall Street protesters in a survey as the top motivating keywords driving them to participate in the OWS protest. Respondents were offered a 1st, 2nd, and 3rd choice. This group reflects the pooled terms from the 1st, 2nd, and 3rd choice keywords or phrases listed that had greater than or equal to five respondents enter the keyword (DeTar 2012).