**Online Appendix**

Table A.1: Descriptive Statistics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable | Observations | Mean | Std. Dev. | Min | Max |
| **Non-Response**  Year: 2000-2015  Year: 1990-2000  Year: 1980-1990  Year: 1970-1980  Year: 1960-1970 | 896,579  288,673  172,218  133,498  83,041  71,989 | .105  .123  .097  .089  .105  .055 | .307  .328  .296  .285  .306  .229 | 0  0  0  0  0  0 | 1  1  1  1  1  1 |
| **Income Quartile**  Year: 2000-2015  Year: 1990-2000  Year: 1980-1990  Year: 1970-1980  Year: 1960-1970 | 676,927  257,329  156,265  122,580  74,747  64,825 | 2.548  2.521  2.618  2.499  2.504  2.624 | 1.083  1.088  1.058  1.059  1.112  1.117 | 1  1  1  1  1  1 | 4  4  4  4  4  4 |
| **Education Level**  Year: 2000-2015  Year: 1990-2000  Year: 1980-1990  Year: 1970-1980  Year: 1960-1970 | 867,820  285,590  170,726  132,869  82,607  71,760 | 3.037  3.473  3.275  3.037  2.751  2.447 | .997  .910  .814  .776  .861  .955 | 1  1  1  1  1  1 | 5  5  5  5  5  5 |
| White | 871,805 | .864 | .342 | 0 | 1 |
| Female | 896,579 | .521 | .5 | 0 | 1 |
| Presidential Co-partisan | 822,490 | .335 | .472 | 0 | 1 |
| Age | 868,402 | 47.085 | 17.227 | 17 | 100 |
| Residence: South | 827,755 | .295 | .456 | 0 | 1 |
| Residence: Urban | 721,394 | .248 | .432 | 0 | 1 |
|  | | | | | |

Table A.2: Replication of the Main Results (see Table 1) with Survey-Fixed Effects

|  |  |
| --- | --- |
|  | Model 1 |
|  |  |
| Income Quartiles |  |
| 2nd Quartile | -0.18\*\*\* |
|  | (0.016) |
| 3rd Quartile | -0.302\*\*\* |
|  | (0.018) |
| 4th Quartile | -0.420\*\*\* |
|  | (0.019) |
| Education |  |
| Some H.S. | -0.422\*\*\* |
|  | (0.027) |
| High School (H.S.) | -0.936\*\*\* |
|  | (0.025) |
| College | -1.158\*\*\* |
|  | (0.029) |
| Post-grad | -1.211\*\*\* |
|  | (0.034) |
| Race: White | -0.039\*\* |
|  | (0.016) |
| Gender: Female | 0.146\*\*\* |
|  | (0.012) |
| Presidential Co-Partisan | 0.063\*\*\* |
|  | (0.012) |
| Age | -0.0029\*\*\* |
|  | (0.0003) |
| Residence: the South | 0.103\*\*\* |
|  | (0.012) |
| Residence: Urban | -0.040\*\*\* |
|  | (0.014) |
| Constant | -1.771\*\*\* |
|  | (0.102) |
|  |  |
| AIC | 207592.6 |
| BIC | 212276 |
| Observations | 463,068 |

Table A.3: Determinants of D.K. Responses to the MIP (additional model specifications)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Model 1 | Model 2 | Model 3 | Model 4 |
|  |  |  |  |  |
| Presidential Approval |  | 0.196\*\*\* |  |  |
|  |  | (0.0151) |  |  |
| Income Quartile | -0.137\*\*\* | -0.115\*\*\* | -0.152\*\*\* | -0.275\*\*\* |
|  | (0.00618) | (0.00683) | (0.0121) | (0.0318) |
| Education Level | -0.316\*\*\* | -0.259\*\*\* | -0.268\*\*\* | -0.419\*\*\* |
|  | (0.00770) | (0.00858) | (0.0157) | (0.0413) |
| White | -0.0583\*\*\* | -0.0646\*\*\* | -0.0242 | 0.101 |
|  | (0.0167) | (0.0189) | (0.0318) | (0.0879) |
| Female | 0.135\*\*\* | 0.0900\*\*\* | 0.0390\* | 0.196\*\*\* |
|  | (0.0120) | (0.0134) | (0.0234) | (0.0610) |
| Presidential co-partisan | 0.0622\*\*\* | 0.0387\*\* | 0.109\*\*\* | 0.0201 |
|  | (0.0126) | (0.0151) | (0.0247) | (0.0629) |
| Age | -0.00157\*\*\* | -0.00477\*\*\* | -0.00439\*\*\* | -0.00318\* |
|  | (0.000358) | (0.000404) | (0.000695) | (0.00174) |
| Residence: South | 0.116\*\*\* | 0.126\*\*\* | 0.123\*\*\* | 0.197\*\*\* |
|  | (0.0125) | (0.0141) | (0.0244) | (0.0622) |
| Residence: Urban | -0.0390\*\*\* | -0.0681\*\*\* | 0.0867\*\*\* | -0.178\*\* |
|  | (0.0145) | (0.0161) | (0.0293) | (0.0854) |
| Attention to the election campaign |  |  | -0.425\*\*\* |  |
|  |  |  | (0.0176) |  |
| Religiosity |  |  |  | -0.141\*\*\* |
|  |  |  |  | (0.0321) |
| Constant | -1.135\*\*\* | -2.201\*\*\* | -0.252\*\* | -1.515\*\*\* |
|  | (0.107) | (0.0938) | (0.123) | (0.245) |
| Survey fixed-effects  Year fixed-effects  Pseudo R2 | Yes  No  0.278 | No  Yes  0.092 | No  Yes  0.223 | No  Yes  0.084 |
| Observations | 463,068 | 370,294 | 82,767 | 27,745 |

Standard errors in parentheses

\*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table A.4: Logistic Regression Models of the Relationship between Income Level and Non-Response (using survey weights)

|  |  |  |
| --- | --- | --- |
|  | Model 1 | Model 2 |
|  |  |  |
| 2nd income quartile | -0.0908\*\*\* | -0.0708\*\*\* |
|  | (0.0148) | (0.0178) |
| 3rd income quartile | -0.239\*\*\* | -0.217\*\*\* |
|  | (0.0161) | (0.0192) |
| 4th income quartile | -0.375\*\*\* | -0.364\*\*\* |
|  | (0.0181) | (0.0213) |
| Some High School | -0.00737 | -0.0995\*\*\* |
|  | (0.0271) | (0.0302) |
| High School | -0.523\*\*\* | -0.677\*\*\* |
|  | (0.0245) | (0.0281) |
| College | -0.743\*\*\* | -0.841\*\*\* |
|  | (0.0280) | (0.0327) |
| Post-graduate | -0.772\*\*\* | -0.924\*\*\* |
|  | (0.0321) | (0.0373) |
| White |  | -0.0638\*\*\* |
|  |  | (0.0187) |
| Female |  | 0.0789\*\*\* |
|  |  | (0.0132) |
| Presidential co-partisan |  | 0.0551\*\*\* |
|  |  | (0.0138) |
| Age |  | -0.00542\*\*\* |
|  |  | (0.000421) |
| Residence: the South |  | 0.131\*\*\* |
|  |  | (0.0138) |
| Residence: Urban |  | -0.0961\*\*\* |
|  |  | (0.0162) |
| Constant | -1.678\*\*\* | -1.513\*\*\* |
|  | (0.121) | (0.134) |
|  |  |  |
| Observations | 634,296 | 459,732 |

Robust standard errors in parentheses

\*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table A.5a: Summaries of the observed, imputed, and completed data for the category of ‘Welfare’

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Imputed dataset | Data | Mean | Std. Dev. | Min | Max |
| M=1 | Observed | .0051 | .071 | 0 | 1 |
|  | Imputed | .007 | .0753 | -.3056 | .3005 |
|  | Completed | .00519 | .0713 | -.3056 | 1 |
| M=2 | Observed | .0050 | .07107 | 0 | 1 |
|  | Imputed | .0068 | .0751 | -.3102 | .3140 |
|  | Completed | .0051 | .07128 | -.3102 | 1 |
| M=3 | Observed | .005 | .0710 | 0 | 1 |
|  | Imputed | .0066 | .07588 | -.316 | .319 |
|  | Completed | .0051 | .0713 | -.316 | 1 |
| M=4 | Observed | .005 | .071 | 0 | 1 |
|  | Imputed | .007 | .0754 | -.328 | .319 |
|  | Completed | .0051 | .0713 | -.328 | 1 |
| M=5 | Observed | .005 | .071 | 0 | 1 |
|  | Imputed | .0064 | .0752 | -.278 | .313 |
|  | Completed | .0051 | .0712 | -.278 | 1 |

Table A.5b: Summaries of the observed, imputed, and completed data for the category of ‘Health Care’

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Imputed dataset | Data | Mean | Std. Dev. | Min | Max |
| M=1 | Observed | .0391 | .194 | 0 | 1 |
|  | Imputed | .0541 | .209 | -.794 | .854 |
|  | Comleted | .0399 | .194 | -.794 | 1 |
| M=2 | Observed | .0391 | .194 | 0 | 1 |
|  | Imputed | .0529 | .208 | -.822 | .939 |
|  | Completed | .0398 | .019 | -.822 | 1 |
| M=3 | Observed | .0391 | .194 | 0 | 1 |
|  | Imputed | .052 | .21 | -.834 | .931 |
|  | Completed | .039 | .194 | -.834 | 1 |
| M=4 | Observed | .039 | .194 | 0 | 1 |
|  | Imputed | .053 | .209 | -.922 | .953 |
|  | Completed | .039 | .194 | -.922 | 1 |
| M=5 | Observed | .039 | .194 | 0 | 1 |
|  | Imputed | .051 | .209 | -.754 | .982 |
|  | Completed | .039 | .194 | -.754 | 1 |

Table A.5c: Summaries of the observed, imputed, and completed data for the category of ‘Crime’

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Imputed dataset | Data | Mean | Std. Dev. | Min | Max |
| M=1 | Observed | .064 | .245 | 0 | 1 |
|  | Imputed | .069 | .258 | -.99 | 1.165 |
|  | Completed | .064 | .245 | -.99 | 1.165 |
| M=2 | Observed | .064 | .245 | 0 | 1 |
|  | Imputed | .067 | .257 | -1.045 | 1.116 |
|  | Completed | .064 | .245 | -1.045 | 1.116 |
| M=3 | Observed | .064 | .245 | 0 | 1 |
|  | Imputed | .067 | .259 | -1.018 | 1.271 |
|  | Completed | .064 | .245 | -1.018 | 1.271 |
| M=4 | Observed | .064 | .245 | 0 | 1 |
|  | Imputed | .068 | .258 | -1.062 | 1.128 |
|  | Completed | .064 | .245 | -1.062 | 1.128 |
| M=5 | Observed | .064 | .245 | 0 | 1 |
|  | Imputed | .066 | .258 | -.924 | 1.157 |
|  | Completed | .064 | .245 | -.924 | 1.157 |

Table A.5d: Summaries of the observed, imputed, and completed data for the category of ‘Civil Liberties’

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Imputed dataset | Data | Mean | Std. Dev. | Min | Max |
| M=1 | Observed | .0263 | .16 | 0 | 1 |
|  | Imputed | .0227 | .156 | -.587 | .843 |
|  | Completed | .0261 | .159 | -.587 | 1 |
| M=2 | Observed | .026 | .16 | 0 | 1 |
|  | Imputed | .021 | .155 | -.62 | .767 |
|  | Completed | .026 | .159 | -.62 | 1 |
| M=3 | Observed | .026 | .16 | 0 | 1 |
|  | Imputed | .021 | .155 | -.606 | .95 |
|  | Completed | .026 | .159 | -.605 | 1 |
| M=4 | Observed | .026 | .16 | 0 | 1 |
|  | Imputed | .022 | .155 | -.624 | .824 |
|  | Completed | .026 | .159 | -.624 | 1 |
| M=5 | Observed | .026 | .16 | 0 | 1 |
|  | Imputed | .021 | .155 | -.55 | .872 |
|  | Completed | .026 | .159 | -.55 | 1 |

Table A.5d: Summaries of the observed, imputed, and completed data for the category of ‘Education Policy’

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Imputed dataset | Data | Mean | Std. Dev. | Min | Max |
| M=1 | Observed | .022 | .146 | 0 | 1 |
|  | Imputed | .0289 | .148 | -.598 | .592 |
|  | Completed | .0223 | .146 | -.598 | 1 |
| M=2 | Observed | .022 | .146 | 0 | 1 |
|  | Imputed | .028 | .148 | -.573 | .618 |
|  | Completed | .0223 | .146 | -.573 | 1 |
| M=3 | Observed | .022 | .146 | 0 | 1 |
|  | Imputed | .0277 | .149 | -.627 | .665 |
|  | Completed | .0222 | .146 | -.627 | 1 |
| M=4 | Observed | .22 | .146 | 0 | 1 |
|  | Imputed | .0284 | .148 | -.638 | .654 |
|  | Completed | .022 | .146 | -.638 | 1 |
| M=5 | Observed | .022 | .146 | 0 | 1 |
|  | Imputed | .0272 | .148 | -.537 | .639 |
|  | Completed | .0222 | .146 | 0.537 | 1 |

Figure A.1: The Effect of Income Level on Nonresponse Over Time



Figure A.2: Proportion of Non-Response among Women and Men



Figure A.3: Proportion of Non-Response across Age Categories



Figure A.4: The Effect of Income Level on D.K. Responses across Different Socio- economic and Demographic Groups

