**The Effects of Foreign Language Proficiency on Public Attitudes:**

**Evidence from the Chinese-Speaking World**

Appendix

# Table A

# ANOVA of Within-Country Differences of English Proficiency

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Political Unit** | | **Degree of Freedom** | **Sum of Squares** | **Mean Square** | **F** | **P Value** |
| Mainland China | | 2 | 2.303 | 1.152 | 2.866 | 0.057 |
| Singapore | | 4 | 3.294 | 0.824 | 1.158 | 0.328 |
| Taiwan | | 2 | 1.823 | 0.912 | 1.959 | 0.141 |
| Source: AsiaBarameter Survey 2006 | | | | | | |

# Table B

# Regression Results

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Ordinal | Categorical | Good | Rather Good | Rather Bad | Bad | Global Effect |
|  | (1) | (2) | (3) | | | | (4) |
|  |  |  |  |  |  |  |  |
| English (1-4) | **-0.15**\* |  |  |  |  |  | **-0.17**\* |
|  | [-0.26; -0.04] |  |  |  |  |  | [-0.29; -0.05] |
| English: None (=1) |  | **0.48**\* | **-1.14**\* | -0.48 | 0.77 | 0.62 |  |
|  |  | [0.14; 0.82] | [-1.92; -0.48] | [-0.98; 0.05] | [-0.02; 1.73] | [-0.39; 1.55] |  |
| English: Little (=2) |  | **0.34**\* | -0.49 | -0.23 | **1.10**\* | 0.37 |  |
|  |  | [0.05; 0.63] | [-1.00; 0.12] | [-0.64; 0.24] | [0.30; 1.90] | [-0.54; 1.28] |  |
| English: Sufficient (=3) |  | 0.23 | 0.05 | 0.13 | **1.18**\* | **0.89**\* |  |
|  |  | [-0.03; 0.49] | [-0.45; 0.46] | [-0.29; 0.60] | [0.34; 1.86] | [0.24; 1.77] |  |
| Education | **0.12**\* | **0.11**\* | -0.11 | -0.07 | 0.14 | **0.19**\* | **0.14**\* |
|  | [0.04; 0.19] | [0.04; 0.19] | [-0.25; 0.05] | [-0.20; 0.06] | [-0.02; 0.29] | [0.05; 0.35] | [0.06; 0.22] |
| Income | 0.01 | 0.01 | 0.01 | -0.01 | -0.01 | 0.03 | 0.01 |
|  | [-0.01; 0.03] | [-0.01; 0.03] | [-0.03; 0.04] | [-0.03; 0.02] | [-0.05; 0.02] | [-0.01; 0.06] | [-0.01; 0.03] |
| Age | **0.01**\* | **0.01**\* | -0.01 | **-0.02**\* | **0.02**\* | **0.01**\* | **0.01**\* |
|  | [0.01; 0.02] | [0.01; 0.02] | [-0.03; 0.00] | [-0.03; -0.01] | [0.01; 0.03] | [0.00; 0.02] | [0.01; 0.02] |
| Female | -0.10 | -0.11 | -0.16 | -0.11 | -0.19 | **-0.44**\* | -0.11 |
|  | [-0.22; 0.01] | [-0.22; 0.01] | [-0.44; 0.10] | [-0.27; 0.09] | [-0.39; 0.01] | [-0.68; -0.22] | [-0.23; 0.02] |
| Exposure to Foreign Culture |  |  |  |  |  |  | -0.06 |
|  |  |  |  |  |  |  | [-0.12; 0.00] |
| Attitude towards India |  |  |  |  |  |  | **0.73**\* |
|  |  |  |  |  |  |  | [0.63; 0.83] |
| Attitude towards Turkey |  |  |  |  |  |  | **0.13**\* |
|  |  |  |  |  |  |  | [0.02; 0.25] |
| Log Likelihood | -4758.07 | -4757.84 |  |  |  |  | -4110.70 |
| AIC | 9538.14 | 9541.68 |  |  |  |  | 8249.41 |
| BIC | 9606.82 | 9622.85 |  |  |  |  | 8335.13 |
| DIC |  |  | 9394.61 | 9394.61 | 9394.61 | 9394.61 |  |
| **Note:** Confidence interval reported in square brackets. \* 0 outside the confidence interval. The model was estimated using three-level multilevel models. Fixed effects presented. | | | | | | | |

# Table C

# Robustness Test for Potential Selection Effects

| **Coarsened Extract Matching** | | | |
| --- | --- | --- | --- |
|  | | | |
| **Treatment** | **Cutting point** | **Difference** | **SE** |
| English Proficiency | At least a little | -0.2296058 | 0.1056128 |
| English Proficiency | At least fluently | -0.4263005 | 0.2353867 |
| **Note:** The table shows the attitudinal differences between semi-control/treatment groups selected by coarsened extract matching based on the cutting point. | | | | |

# Table D

# Robustness Test for the Influences of American Hegemony – Mediation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | (a) | (b) | (c) |  |
|  | Attitude to US | Attitude to Japan | Attitude to Japan | Integrated |
|  |  |  |  |  |
| English Proficiency | 0.031 |  |  |  |
|  | [-0.026, 0.087] |  |  |  |
| Attitude towards US |  | -0.346\* |  |  |
|  |  | [-0.379, -0.313] |  |  |
| Education | 0.044\* | 0.082\* |  |  |
|  | [0.003, 0.085] | [0.045, 0.118] |  |  |
| Income | 0.013\* | 0.010\* |  |  |
|  | [0.002, 0.023] | [0.001, 0.019] |  |  |
| Age | -0.002 | 0.005\* |  |  |
|  | [-0.005, 0.001] | [0.002, 0.008] |  |  |
| Female | 0.044 | -0.042 |  |  |
|  | [-0.021, 0.106] | [-0.098, 0.014] |  |  |
| Exp. Foreign Culture | 0.015 | -0.022 |  |  |
|  | [-0.015, 0.045] | [-0.045, 0.002] |  |  |
| Attitude to India | -0.274\* | 0.219\* |  |  |
|  | [-0.326, -0.223] | [0.174, 0.263] |  |  |
| Attitude to Turkey | -0.086\* | 0.025 |  |  |
|  | [-0.152, -0.022] | [-0.027, 0.077] |  |  |
| English: Direct |  |  | -0.071\* |  |
|  |  |  | [-0.122, -0.021] |  |
| English: Indirect |  |  |  | -0.011 |
|  |  |  |  | [-0.030, 0.009] |
| English: Total |  |  |  | -0.081\* |
|  |  |  |  | [-0.135, -0.028] |

|  |  |
| --- | --- |
| Diagnoses |  |
| AIC | 17260.519 |
| BIC | 17425.799 |
| CFI | 0.998 |
| χ² | 11.097 |
| RMSEA | 0.023 |
| SRMR | 0.004 |
| TLI | 0.987 |
| Estimator | ML |
| N | 3366 |

# **Note:** Confidence interval reported in square brackets. \* 0 outside the confidence interval. The model was estimated using fixed effect model at the region and political unit levels.

# Table E

# Robustness Test for the Influences of American Hegemony – Moderation

|  |  |
| --- | --- |
|  | Attitude to Japan |
|  |  |
| English Proficiency | 0.028 |
|  | [-0.221, 0.278] |
| Liking the US | -0.772\* |
|  | [-0.916, -0.628] |
| English × Liking the U.S. | -0.054 |
|  | [-0.120, 0.011] |
| Education | 0.181\* |
|  | [0.097, 0.265] |
| Income | 0.024\* |
|  | [0.002, 0.046] |
| Age | 0.011\* |
|  | [0.005, 0.017] |
| Female | -0.090 |
|  | [-0.220, 0.039] |
| Exp. Foreign Culture | -0.055 |
|  | [-0.119, 0.009] |
| Attitude towards India | 0.570\* |
|  | [0.468, 0.674] |
| Attitude towards Turkey | 0.102 |
|  | [-0.017, 0.221] |
|  |  |
| edf | 20.000 |
| Log Likelihood | -3820.098 |
| AIC | 7680.2 |
| BIC | 7802.6 |
| DF Residual | 3346 |
| N | 3366 |

# **Note:** Confidence interval reported in square brackets. \* 0 outside the confidence interval. The model was estimated using fixed effect model at the region and political unit levels.