# **Corruption Charges Against Women Heads of Government: Appendix**

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This is a manuscript submitted for review.

# VARIABLE DESCRIPTION AND STATISTICS

| statistics   |   |  |  |  |
|--------------|---|--|--|--|
| Observations | Mean  | Std. Dev.  | Minimum  | Maximum  |
| 2,119        | .024  | .153   | 0  | 1  |
| 2,119        | .033  | .176   | 0  | 1  |
| 2,013        | 3.644   | 6.526  | -10  | 10   |
| 1,963        | .014  | .102   | 59   | 1.309  |
| 2,118        | .748  | .368   | 0  | 1  |
| 2,119        | .215  | 1.561  | -2.9   | 3.607  |
| 2,119        | .704  | 1.436  | -3.585   | 3.732  |
| 2,101        | .629  | .229   | .043   | .975   |
| 2,119        | .095  | .293   | 0  | 1  |
| 2,119        | 56.495  | 77.417   | 0  | 590.137  |
| 2,119        | .081  | .272   | 0  | 1  |
| 2,119        | .821  | .383   | 0  | 1  |
|              | Statistics   Observations   2,119   2,119   2,013   1,963   2,118   2,119   2,119   2,119   2,119   2,119   2,119   2,119   2,101   2,119   2,119   2,119   2,119   2,119   2,119   2,119   2,119   2,119   2,119   2,119   2,119 | Statistics Mean   2,119 .024   2,119 .033   2,013 3.644   1,963 .014   2,119 .215   2,119 .748   2,119 .215   2,119 .704   2,101 .629   2,119 .095   2,119 .081   2,119 .821 | StatisticsObservationsMeanStd. Dev.2,119.024.1532,119.033.1762,0133.6446.5261,963.014.1022,118.748.3682,119.2151.5612,119.7041.4362,101.629.2292,119.095.2932,119.081.2722,119.821.383 | StatisticsObservationsMeanStd. Dev.Minimum $2,119$ .024.1530 $2,119$ .033.1760 $2,013$ $3.644$ $6.526$ -10 $1,963$ .014.10259 $2,118$ .748.3680 $2,119$ .2151.561-2.9 $2,119$ .7041.436-3.585 $2,101$ .629.229.043 $2,119$ .095.2930 $2,119$ .081.2720 $2,119$ .821.3830 |

The following table presents some statistics on our main variables and controls.

# POLITICAL ORIENTATION AND EXECUTIVE APPROVAL MODELS

In Table A2, we control for a leader's political orientation and approval. To control for a leader's political orientation, we use regulatory quality from the World Development Indicators (World Bank 2021). This variable tracks openness to business, which could be construed as a crude proxy for right wing government. Other left/right variables were not feasible with our data set, which includes a lot of non-democratic countries that cannot easily be placed on a left/right scale. To control for a leader's popularity, we use unemployment, from the World Development Indicators again, and inflation, from Clio-Infra (2018). These are widely used variables that proxy the executive's approval rating.

|   | Dependent variable: Corruption charges |                      |                      |                      |                    |                   |
|---|--|----------------------|----------------------|----------------------|--------------------|-------------------|
| -                                       | (1)                                    | (2)                  | (3)                  | (4)                  | (5)                | (6)               |
| Woman                                   | 2.486***                               | 8.245***             | 2.345***             | 2.726**              | 2.215**            | 3.371**           |
|   | (0.499)                                | (2.062)              | (0.427)              | (0.869)              | (0.697)            | (1.123)           |
| Polity                                  | 0.030                                  | -0.649**             | -0.025               | -0.154               | -0.041             | -0.187            |
|   | (0.074)                                | (0.225)              | (0.051)              | (0.086)              | (0.065)            | (0.120)           |
| GDP growth                              | 1.464                                  | 17.59                |                      |                      |                    |                   |
|   | (1.211)                                | (12.21)              |                      |                      |                    |                   |
| Regulatory quality                      | 0.534                                  | -8.979**             |                      |                      |                    |                   |
|   | (0.508)                                | (3.316)              |                      |                      |                    |                   |
| Judicial constraints on executive       | 0.403                                  | -4.830               | 0.0442               | -0.759               | 0.158              | 1.536             |
|   | (0.986)                                | (4.432)              | (0.687)              | (1.320)              | (1.196)            | (2.400)           |
| Executive bribery and corrupt exchanges | -0.664**                               | -0.622               | -0.644***            | -0.111               | -0.624             | -0.863            |
|   | (0.256)                                | (1.198)              | (0.136)              | (0.393)              | (0.329)            | (0.926)           |
| Media bias                              | 0.433                                  | 0.485                | 0.362                | 0.210                | 1.027              | 1.001             |
|   | (0.299)                                | (0.993)              | (0.234)              | (0.436)              | (0.665)            | (1.019)           |
| Women's political empowerment           | -3.514                                 | 6.228                | 1.256                | 8.819***             | -4.023**           | -7.514            |
|   | (1.836)                                | (9.969)              | (1.400)              | (2.577)              | (1.544)            | (4.011)           |
| Months in office                        | 0.006**                                | 0.039**              | 0.003                | 0.003                | 0.007              | 0.021*            |
|   | (0.002)                                | (0.015)              | (0.002)              | (0.004)              | (0.004)            | (0.009)           |
| Ties to other leaders                   | 0.782                                  | -1.095               | 0.504                | 0.821                | 0.477              | 0.0514            |
|   | (0.546)                                | (1.635)              | (0.363)              | (0.571)              | (0.441)            | (0.953)           |
| Entry into power                        | 1.594                                  | 7.019                | 2.192*               | 2.427                | 0                  | 0                 |
|   | (0.950)                                | (5.328)              | (1.064)              | (1.438)              | (.)                | (.)               |
| Inflation                               |  |                      | 0.0001               | -0.00003             |                    |                   |
|   |  |                      | (0.0002)             | (0.0002)             |                    |                   |
| Unemployment                            |  |                      |                      |                      | 0.034              | 0.082             |
|   |  |                      |                      |                      | (0.038)            | (0.095)           |
| Country fixed effects                   |  | $\checkmark$         |                      | $\checkmark$         |                    | $\checkmark$      |
|   |  |                      |                      |                      |                    |                   |
| Constant                                | -4.008*<br>(1.686)                     | -20.44***<br>(5.953) | -7.271***<br>(1.302) | -10.13***<br>(2.558) | -2.275*<br>(1 147) | -0.959<br>(2.027) |
| Observations                            | 625                                    | 130                  | 1488                 | 497                  | 386                | 139               |
| r2_p                                    | 0.176                                  | 0.517                | 0.157                | 0.283                | 0.171              | 0.242             |
| chi2                                    | 39.46                                  |                      | 70.43                |                      | 22.36              |                   |
| p                                       | 0.0000442                              |                      | 3.66e-11             |                      | 0.00779            | •                 |

## ALTERNATIVE MEASURES FOR INSTITUTIONAL CONTEXT

In the next two tables, we perform further robustness checks on our main model by using alternative measures for our institutional context variables. In Table A3, we use a binary coding of democracy based on contestation and participation from Boix et al. (2013) as opposed to Polity, as well as a variable measuring neopatrimonialism from V-Dem (the idea that personalistic forms of authority pervade formal regime institutions). In Table A4, we use alternative measures from those used in our main model for the ability to prosecute, corruption and gender-related power distribution. The new ability to prosecute is measured with the government effectiveness index from the World Development Indicators. The new corruption measure is the perception of corruption index (Transparency International 2018). And we use power distributed by gender from V-Dem (Coppedge et al. 2015) to check for an alternative measure of women's political empowerment.

#### MODELS WITH AVERAGE AND ENTRY YEAR COVARIATES

Our main models in the paper contain covariates drawn from the year of exit of the leader. We argue that covariates drawn from the year of exit best represent alternative factors that could influence corruption allegations, since often times when corruption is alleged, the leaders is also forced to exit in the same year or shortly thereafter. Nevertheless, as a robustness check, here we also present models where covariates are drawn from the year of entry (YEntry), or are averaged over the period the leader was in office (AVG). In Tables A5 and A6 one can see that the size and statistical significance of the gender variable remains similar.

|   | Dependent variable: Corruption charges |                      |                      |                      |                      |                      |
|---|--|----------------------|----------------------|----------------------|----------------------|----------------------|
|   | (1)                                    | (2)                  | (3)                  | (4)                  | (5)                  | (6)                  |
| Woman                                   | 2.471***<br>(0.420)                    | 2.779**<br>(0.930)   | 2.616***<br>(0.409)  | 3.279***<br>(0.769)  | 2.474***<br>(0.416)  | 3.050***<br>(0.814)  |
| Democracy (BMR)                         | -0.208<br>(0.504)                      | -1.616*<br>(0.677)   |                      |                      |                      |                      |
| GDP growth                              | -0.433<br>(0.820)                      | -1.769<br>(1.247)    | -0.474<br>(0.793)    | -1.415<br>(1.780)    | -0.447<br>(0.777)    | -1.316<br>(1.815)    |
| Judicial constraints on executive       | 0.129<br>(0.634)                       | -1.152<br>(1.102)    | 0.151<br>(0.749)     | -1.306<br>(1.045)    | 0.326<br>(0.528)     | -0.751<br>(0.957)    |
| Executive bribery and corrupt exchanges | -0.665***<br>(0.125)                   | -0.294<br>(0.366)    | -0.712***<br>(0.204) | -0.342<br>(0.354)    | -0.650***<br>(0.122) | -0.262<br>(0.298)    |
| Media bias                              | 0.361*<br>(0.172)                      | 0.389<br>(0.351)     | 0.407<br>(0.209)     | 0.465<br>(0.325)     | 0.393<br>(0.215)     | 0.602<br>(0.332)     |
| Women's political empowerment           | 1.034<br>(1.310)                       | 7.397**<br>(2.497)   | 0.219<br>(1.060)     | 4.052**<br>(1.507)   |                      |                      |
| Months in office                        | 0.004**<br>(0.002)                     | 0.007<br>(0.004)     | 0.004**<br>(0.002)   | 0.008*<br>(0.003)    | 0.004*<br>(0.002)    | 0.007*<br>(0.003)    |
| Ties to other leaders                   | 0.531<br>(0.382)                       | 0.235<br>(0.829)     | 0.586<br>(0.324)     | 0.291<br>(0.731)     | 0.599<br>(0.326)     | 0.538<br>(0.667)     |
| Entry into power                        | 1.709*<br>(0.755)                      | 1.773*<br>(0.858)    | 1.811*<br>(0.759)    | 2.479<br>(1.306)     | 1.817*<br>(0.757)    | 2.347*<br>(1.137)    |
| Polity                                  |  |                      | -0.030<br>(0.044)    | -0.110<br>(0.066)    | -0.030<br>(0.043)    | -0.121<br>(0.065)    |
| Neopatrimonialism                       |  |                      | -0.805<br>(1.548)    | -1.789<br>(2.549)    |                      |                      |
| Power distributed by gender             |  |                      |                      |                      | 0.192<br>(0.155)     | 0.997**<br>(0.310)   |
| Country fixed effects                   |  | $\checkmark$         |                      | $\checkmark$         |                      | $\checkmark$         |
| Constant                                | -6.773***<br>(1.004)                   | -8.451***<br>(1.677) | -6.136***<br>(1.495) | -7.221***<br>(2.135) | -6.586***<br>(0.900) | -6.876***<br>(1.567) |
| Observations                            | 1645                                   | 520                  | 1864                 | 636                  | 1877                 | 642                  |
| r2_p                                    | 0.156                                  | 0.270                | 0.177                | 0.261                | 0.179                | 0.271                |
| chi2                                    | 99.43<br>7 10e-17                      | •                    | 92.04<br>6.649-15    |                      | 105.5<br>4 24e-18    | •                    |
| r<br>Standard arrara in paranthasaa     |  | •                    | 0.01010              | •                    | 10 10                | •                    |

|   | Dependent variable: Co |              |           | orruption allegation |              |              |  |
|---|------------------------|--------------|-----------|----------------------|--------------|--------------|--|
|   | (1)                    | (2)          | (3)       | (4)                  | (5)          | (6)          |  |
| Woman                                   | 2.424***               | 5.630**      | 2.347***  | 3.248***             | 2.309***     | 14.39***     |  |
|   | (0.484)                | (1.888)      | (0.387)   | (0.755)              | (0.452)      | (2.464)      |  |
| Polity                                  | 0.043                  | -0.539**     | -0.033    | -0.107               | -0.027       | -0.694*      |  |
|   | (0.0774)               | (0.174)      | (0.0476)  | (0.0629)             | (0.0814)     | (0.312)      |  |
| GDP growth                              | 1.371                  | 14.62        | -0.208    | -1.428               | -0.165       | 5.602        |  |
|   | (1.168)                | (15.20)      | (0.756)   | (1.875)              | (1.132)      | (13.62)      |  |
| Government effectiveness                | 0.434                  | -2.006       |           |                      |              |              |  |
|   | (0.438)                | (2.418)      |           |                      |              |              |  |
| Executive bribery and corrupt exchanges | -0.641*                | -1.105       |           |                      |              |              |  |
|   | (0.271)                | (1.106)      |           |                      |              |              |  |
| Media bias                              | 0.464                  | 0.264        | 0.371     | 0.486                | 0.292        | -0.347       |  |
|   | (0.279)                | (0.911)      | (0.202)   | (0.321)              | (0.301)      | (1.279)      |  |
| Women's political empowerment           | -3.240                 | -4.010       | 0.147     | 4.336**              | -3.262       | 0.200        |  |
|   | (1.819)                | (7.613)      | (1.066)   | (1.454)              | (1.673)      | (10.44)      |  |
| Months in office                        | 0.006**                | 0.024*       | 0.003*    | 0.007*               | 0.003        | 0.028**      |  |
|   | (0.002)                | (0.012)      | (0.002)   | (0.003)              | (0.002)      | (0.009)      |  |
| Ties to other leaders                   | 0.720                  | 0.755        | 0.713*    | 0.348                | 0.740        | -1.171       |  |
|   | (0.542)                | (1.557)      | (0.361)   | (0.727)              | (0.624)      | (1.785)      |  |
| Entry into power                        | 1.608                  | 6.380        | 1.759*    | 2.413                | 1.361        | 2.955        |  |
|   | (0.987)                | (4.845)      | (0.745)   | (1.233)              | (0.949)      | (1.548)      |  |
| Judicial constraints on executive       |                        |              | 0.497     | -1.103               | 0.253        | -4.708       |  |
|   |                        |              | (0.610)   | (0.928)              | (0.948)      | (4.474)      |  |
| Public corruption                       |                        |              | 2.054***  | -0.277               |              |              |  |
|   |                        |              | (0.540)   | (1.346)              |              |              |  |
| Corruption perception index             |                        |              |           |                      | -0.026**     | -0.061       |  |
|   |                        |              |           |                      | (0.009)      | (0.042)      |  |
| Country fixed effects                   |                        | $\checkmark$ |           | $\checkmark$         |              | $\checkmark$ |  |
|   |                        |              |           |                      |              |              |  |
| Constant                                | -3.936**               | -9.887*      | -7.465*** | -7.854***            | -2.459       | -10.07       |  |
| Observetions                            | (1.514)                | (3.985)      | (1.145)   | (1.956)              | (1.427)      | (5.993)      |  |
| r2 p                                    | 625<br>0.171           | 0.439        | 0.158     | 0.259                | 637<br>0.161 | 0.586        |  |
| chi2                                    | 43.19                  |              | 116.4     |                      | 85.93        |              |  |
| р                                       | 0.00000460             |              | 2.76e-20  |                      | 3.41e-14     |              |  |

| RIEA | <u>л</u> / | Ntornativo | moseuroe   | for ind | etitutional | context | modele (   |
|------|------------|------------|------------|---------|-------------|---------|------------|
|      | · · · ·    |            | IIIcasules |         | รแนนเบทสเ   | COLLEAL | IIIUUCIS ( |

|  | Dependen  | rruption charges |              |
|--|-----------|------------------|--------------|
|  | (1)       | (2)              | (3)          |
| Woman  | 2.530***  | 3.293***         | 4.725**      |
|  | (0.375)   | (0.760)          | (1.691)      |
| Polity (YEntry)                                  | 0.070     | 0.086            | 0.087        |
|  | (0.048)   | (0.077)          | (0.081)      |
| GDP growth (YEntry)                              | -1.779    | -6.998*          | -10.19       |
|  | (1.328)   | (2.882)          | (5.400)      |
| Judicial constraints on executive (YEntry)       | 0.758     | 0.128            | -0.265       |
|  | (0.715)   | (1.247)          | (2.023)      |
| Executive bribery and corrupt exchanges (YEntry) | -0.686*** | -0.389           | -0.795       |
|  | (0.146)   | (0.509)          | (0.744)      |
| Media bias (YEntry)                              | 0.119     | -0.186           | -0.416       |
|  | (0.229)   | (0.474)          | (0.542)      |
| Women's political empowerment (YEntry)           | -0.079    | 3.863            | 2.921        |
|  | (1.206)   | (2.247)          | (5.318)      |
| Months in office                                 | 0.006***  | 0.010**          | 0.024**      |
|  | (0.002)   | (0.004)          | (0.009)      |
| Ties to other leaders                            | 0.545     | 0.688            | 0.812        |
|  | (0.361)   | (0.723)          | (1.073)      |
| Entry into power                                 | 1.536*    | 2.243            | 4.791*       |
|  | (0.740)   | (1.243)          | (2.193)      |
| Country fixed effects                            |           | $\checkmark$     | $\checkmark$ |
| Year fixed effects                               |           |                  | $\checkmark$ |
| Constant   | -6.747*** | -9.188***        | -14.34***    |
|  | (0.927)   | (1.814)          | (4.293)      |
| Ubservations                                     | 1776      | 613<br>0.295     | 274          |
| r∠_v<br>chi2                                     | 83.37     | 0.200            | 0.390        |
| n  | 1 090-12  | •                | •            |

# TABLE A 5. Year of entry models

|   | Dependent variable: Corruption c |              |
|---|----------------------------------|--------------|
|   | (1)                              | (2)          |
| Woman   | 2.616***                         | 3.164***     |
|   | (0.387)                          | (0.728)      |
| Polity (AVG)                                  | 0.041                            | 0.001        |
|   | (0.046)                          | (0.062)      |
| GDP growth (AVG                               | -0.879                           | -3.271       |
|   | (0.877)                          | (2.312)      |
| Judicial constraints on executive (AVG)       | 0.776                            | 0.115        |
|   | (0.636)                          | (1.098)      |
| Executive bribery and corrupt exchanges (AVG) | -0.764***                        | -0.722       |
|   | (0.145)                          | (0.538)      |
| Media bias (AVG)                              | 0.200                            | -0.105       |
|   | (0.230)                          | (0.402)      |
| Women's political empowerment (AVG)           | 0.303                            | 5.204**      |
|   | (1.219)                          | (1.783)      |
| Months in office                              | 0.006**                          | 0.008*       |
|   | (0.002)                          | (0.004)      |
| Ties to other leaders                         | 0.513                            | 0.486        |
|   | (0.360)                          | (0.727)      |
| Entry into power                              | 1.631*                           | 2.209        |
|   | (0.752)                          | (1.179)      |
| Country fixed effects                         |                                  | $\checkmark$ |
| Constant                                      | -7 076***                        | -9 718***    |
|   | (0.976)                          | (1.907)      |
| Observations                                  | 1879                             | 636          |
| r2_p  | 0.190                            | 0.263        |
| n   | 10.00<br>9 100-13                |              |

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#### MULTINOMIAL SIMULTANEOUS EQUATIONS MODELS

In our last Table, Table A7 we can see that controlling for corruption charges, women are not more likely to be imprisoned than men. We use a multinomial simultaneous equations model, where in the first step we regress corruption charges again on our standard control variables, plus regional corruption charges, which we believe could function as a suitable exclusion restriction. Following literature on corruption that argues spatial dependence can successfully be used as an instrumental variable (Becker et al. 2009; Faber and Gerritse 2012; Gründler and Potrafke 2019; Jetter and Parmeter 2018; Borsky and Kalkschmied 2019), we maintain that our measure of the average number of leader corruption charges in the region has an effect on corruption charges, but not the post-tenure fate of leaders. In the second step of our simultaneous equations model we use a multinomial probit model where the outcome is leader post-tenure fate, controlling for corruption charges from our first step. Women are still more likely to be charged with corruption, by a probability of 18 percent, but they are not more likely to be imprisoned, exiled, or assassinated. This could potentially mean that we do indeed see a gender-related backlash against women leaders perceived to be corrupt, but that it is a "soft" form of a gender backlash where imprisonment in a second step is not needed or desired. On the other hand, the results could also indicate that women are disproportionately being unfairly accused, a "hard" form of gender backlash, and that in the end, the charges do not stick after all.

|   | Outco        |           |           |                      |
|---|--------------|-----------|-----------|----------------------|
|   | Imprisonment | Exile     | Death     | Corruption allegatio |
| Woman                                   | 0.839        | -0.719    | -0.278    | 0.170***             |
|   | (0.576)      | (0.829)   | (0.790)   | (0.020)              |
| Polity                                  | -0.133***    | -0.071*** | -0.089*** | -0.001               |
|   | (0.020)      | (0.017)   | (0.021)   | (0.001)              |
| GDP growth                              | -0.629       | -1.353*   | -2.289**  | -0.009               |
|   | (0.684)      | (0.612)   | (0.789)   | (0.036)              |
| Judicial constraints on executive       | 0.579*       | -0.518*   | -0.122    | 0.009                |
|   | (0.249)      | (0.212)   | (0.280)   | (0.014)              |
| Executive bribery and corrupt exchanges | -0.058       | -0.149*   | 0.101     | -0.004               |
|   | (0.065)      | (0.064)   | (0.078)   | (0.003)              |
| Media bias                              | 0.095        | 0.116     | 0.105     | 0.007                |
|   | (0.082)      | (0.079)   | (0.100)   | (0.005)              |
| Women's political empowerment           | -1.219*      | -2.460*** | -2.499*** | -0.036               |
|   | (0.481)      | (0.458)   | (0.607)   | (0.025)              |
| Months in office                        | 0.002*       | 0.004***  | 0.004**   | 0.00004              |
|   | (0.001)      | (0.001)   | (0.001)   | (0.0001)             |
| Ties to other leaders                   | 0.150        | -0.104    | 0.425     | 0.028*               |
|   | (0.261)      | (0.258)   | (0.289)   | (0.013)              |
| Entry into power                        | -0.445*      | -0.284    | -0.485*   | 0.026*               |
|   | (0.194)      | (0.171)   | (0.199)   | (0.011)              |
| Corruption charges                      | -1.108       | 0.763     | 2.373     |                      |
|   | (2.367)      | (2.511)   | (2.496)   |                      |
| Regional corruption allegations         |              |           |           | 2.037***             |
|   |              |           |           | (0.264)              |
| Constant                                | -1.018**     | 0.183     | -0.458    | -0.014               |
|   | (0.343)      | (0.262)   | (0.352)   | (0.016)              |
| Insig_5                                 | -1.874***    |           |           |                      |
|   | (0.016)      |           |           |                      |
| atanhrho_25                             | 0.367        |           |           |                      |
|   | (0.277)      |           |           |                      |
| atanhrho_35                             | 0.104        |           |           |                      |
|   | (0.273)      |           |           |                      |
| atanhrho_45                             | -0.184       |           |           |                      |
|   | (0.270)      |           |           |                      |
| Observations<br>Pseudo B2               | 1864         |           |           |                      |
| Chi2                                    | 648.0        |           |           |                      |
| D                                       | 2.14e-108    |           |           |                      |

#### TABLE A 7. Post-tenure fate multinomial simultaneous equations model

### REFERENCES

- Becker, Sascha O, Peter H Egger, and Tobias Seidel (2009). Common political culture: Evidence on regional corruption contagion. *European Journal of Political Economy* 25(3), 300–310.
- Boix, Carles, Michael Miller, and Sebastian Rosato (2013). A complete data set of political regimes, 1800–2007. *Comparative political studies* 46(12), 1523–1554.
- Borsky, Stefan and Katja Kalkschmied (2019). Corruption in space: A closer look at the world's subnations. *European Journal of Political Economy 59*, 400–422.

Clio-Infra (2018). Clio-infra project (database).

- Coppedge, Michael , John Gerring, Staffan I Lindberg, Jan Teorell, David Altman, Michael Bernhard, M Steven Fish, Adam Glynn, Allen Hicken, Carl H Knutsen, et al. (2015). Varieties of democracy. *Codebook. Version*.
- Faber, Gerrit and Michiel Gerritse (2012). Foreign determinants of local institutions: Spatial dependence and openness. *European Journal of Political Economy* 28(1), 54–63.
- Gründler, Klaus and Niklas Potrafke (2019). Corruption and economic growth: New empirical evidence. *European Journal of Political Economy* 60, 101810.
- Jetter, Michael and Christopher F Parmeter (2018). Sorting through global corruption determinants: Institutions and education matter–not culture. *World Development 109*, 279–294.

Transparency International (2018). Global corruption report. Transparency International, Berlin.

World Bank (2021). World Bank Indicators 2021. World Bank, Washington.