

Stabilizing through randomizing - online appendix

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August 25, 2019

1 Overview

This online appendix is a compliment to the paper titled *Stabilizing through randomizing: A bootstrap approach to estimating item validity and latent concepts*. The information provided here mostly concerns databases and question wording, which users can use to better understand and analyse the arguments and statistics presented in the main paper. Information such as factor loading scores, bootstrapped statistics, input and raw question data (where such data are my own to distribute) can be found under other folders of the paper's GitHub page: <https://github.com/patrick-eng/Dyad-Online-Repository/>. Also available from the repository are full paper replication materials. I am always happy to provide further information or clarification upon request - please get in touch via p.english@exeter.ac.uk.

2 Databases Used in this Research

2.1 Cross-national sources for immigration, foreigners, and diversity items

Eurobarometer

The Mannheim Eurobarometer Trend File 1970-2002, [Computer file]. GESIS Study ZA3521, 2nd. edition (2.01), Cologne, Germany.

Eurobarometer 59.2 (2003). European Opinion Research Group, Brussels [Producer]. GESIS Data Archive, Cologne. ZA3905 data file version 1.0.1, doi:10.4232/1.10956.

European Social Survey

European Social Survey Cumulative File, ESS 1-8 (2018). Data file edition 1.0. NSD - Norwegian Centre for Research Data, Norway - Data Archive and distributor of ESS data for ESS ERIC. doi:10.21338/NSD-ESS-CUMULATIVE.

European Values Study

EVS (2015): European Values Study Longitudinal Data File 1981-2008 (EVS 1981-2008). GESIS Data Archive, Cologne. ZA4804 Data file Version 3.0.0, doi:10.4232/1.12253

World Values Survey

Inglehart, R., C. Haerpfer, A. Moreno, C. Welzel, K. Kizilova, J. Diez-Medrano, M. Lagos, P. Norris, E. Ponarin and B. Puranen et al. (eds.). 2018. World Values Survey: All Rounds - Country-Pooled Datafile Version: <http://www.worldvaluessurvey.org/WVSDocumentationWVL.jsp>. Madrid: JD Systems Institute.

2.2 British immigration opinions data

British Election Study *Panel Studies*

Clarke, H. et al. , British General Election Study, 2001; Cross-Section Survey [computer file]. Colchester, Essex: UK Data Archive [distributor], March 2003.

Heath, A., Jowell, R. and Curtice, J.K., British Election Panel Study, 1997-2001; Waves 1 to 8 [computer file]. 4th Edition. Colchester, Essex: UK Data Archive [distributor], July 2002.

Clarke, H. et al. , British Election Study Six-Wave Panel Survey, 2005-2009 [computer file]. Colchester, Essex: UK Data Archive [distributor], January 2011.

Fieldhouse, E., J. Green., G. Evans., H. Schmitt, C. van der Eijk, J. Mellon and C. Prosser (2018) British Election Study Internet Panel Waves 1-14. DOI: 10.15127/1.293723

British Election Study *Face to Face Surveys*

Clarke, H. et al. , British Election Study, 2005: Face-to-Face Survey [computer file]. Colchester, Essex: UK Data Archive [distributor], November 2006.

Whiteley, P.F. and Sanders, D., British Election Study, 2010: Face-to-Face Survey [computer file]. Colchester, Essex: UK Data Archive [distributor], August 2014.

Fieldhouse, E., Green, J., Evans, G., Schmitt, H., van der Eijk, C., Mellon, J., Prosser, C. (2016). British Election Study, 2015: Face-to-Face Post-Election Survey. [data collection]. UK Data Service. SN: 7972, <http://dx.doi.org/10.5255/UKDA-SN-7972-1>

Fieldhouse, E., Green, J., Evans, G., Schmitt, H., van der Eijk, C., Mellon, J., Prosser, C. (2018). British Election Study, 2017: Face-to-Face Post-Election Survey [data collection]. <http://doi.org/10.5255/UKDA-SN-8418-1>

British Social Attitudes Survey

Social and Community Planning Research. (1996). British Social Attitudes Survey, 1983-1991; Cumulative File. [data collection]. UK Data Service. SN: 2955, <http://doi.org/10.5255/UKDA-SN-2955-1>

Social and Community Planning Research. (1996). British Social Attitudes Survey, 1994. [data collection].

UK Data Service. SN: 3572, <http://doi.org/10.5255/UKDA-SN-3572-1>

Social and Community Planning Research. (1998). British Social Attitudes Survey, 1995. [data collection].

UK Data Service. SN: 3764, <http://doi.org/10.5255/UKDA-SN-3764-1>

Social and Community Planning Research. (1999). British Social Attitudes Survey, 1996. [data collection].

2nd Edition. UK Data Service. SN: 3921, <http://doi.org/10.5255/UKDA-SN-3921-1>

National Centre for Social Research. (2001). British Social Attitudes Survey, 1999. [data collection]. UK Data Service. SN: 4318, <http://doi.org/10.5255/UKDA-SN-4318-1>

National Centre for Social Research. (2005). British Social Attitudes Survey, 2003. [data collection]. UK Data Service. SN: 5235, <http://doi.org/10.5255/UKDA-SN-5235-1>

National Centre for Social Research. (2007). British Social Attitudes Survey, 2005. [data collection]. 2nd Edition. UK Data Service. SN: 5618, <http://doi.org/10.5255/UKDA-SN-5618-1>

National Centre for Social Research. (2010). British Social Attitudes Survey, 2008. [data collection]. UK Data Service. SN: 6390, <http://doi.org/10.5255/UKDA-SN-6390-1>

NatCen Social Research. (2014). British Social Attitudes Survey, 2011. [data collection]. 2nd Edition. UK Data Service. SN: 7237, <http://doi.org/10.5255/UKDA-SN-7237-2>

NatCen Social Research. (2014). British Social Attitudes Survey, 2013. [data collection]. UK Data Service. SN: 7500, <http://doi.org/10.5255/UKDA-SN-7500-1>

NatCen Social Research. (2019). British Social Attitudes Survey, 2017. [data collection]. UK Data Service. SN: 8450, <http://doi.org/10.5255/UKDA-SN-8450-1>

2.3 Dutch immigration opinions data

Aarts, Kees, Todosijevic, Bojan, and van der Kaap, Harry. Dutch Parliamentary Election Study Cumulative Dataset, 1971-2006. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2010-09-13. <https://doi.org/10.3886/ICPSR28221.v1>

Sociaal en Cultureel Planbureau (The Netherlands Institute for Social Research), Culturele Veranderingen in Nederland (Cultural Change in the Netherlands) 1995. Available from: <https://www.scpdata.nl/studyunits/view/1>

Sociaal en Cultureel Planbureau (The Netherlands Institute for Social Research), Culturele Veranderingen in Nederland (Cultural Change in the Netherlands) 1997. Available from: <https://www.scpdata.nl/studyunits/view/1>

Sociaal en Cultureel Planbureau (The Netherlands Institute for Social Research), Culturele Veranderingen in Nederland (Cultural Change in the Netherlands) 2000. Available from: <https://www.scpdata.nl/studyunits/view/1>

Sociaal en Cultureel Planbureau (The Netherlands Institute for Social Research), Culturele Veranderingen in Nederland (Cultural Change in the Netherlands) 2002. Available from: <https://www.scpdata.nl/studyunits/view/1>

Sociaal en Cultureel Planbureau (The Netherlands Institute for Social Research), Culturele Veranderingen in Nederland (Cultural Change in the Netherlands) 2004. Available from: *https://www.scpdata.nl/study_units/view/1*

2.4 Source for US and Spanish executive approval data

Carlin, Ryan E., Jonathan Hartlyn, Timothy Hellwig, Gregory J. Love, Cecilia Martinez-Gallardo, and Matthew M. Singer. 2019. Executive Approval Database 2.0. Available for download at www.executiveapproval.org.

3 Question Items Used in Public Opinion Measures

The following tables display the questions used in the public opinion measures and their sources for Britain and the Netherlands. Their labels can be cross-referenced with the factor loading scores reported on the paper’s GitHub page: *[https : //github.com/patrick – eng/Dyad – Online – Repository/LogFiles](https://github.com/patrick-eng/Dyad-Online-Repository/LogFiles)*. Following Stimson’s guidelines, identical questions asked across survey houses have been coded as being the same question item. As such, there may be two entries for the same variable name (and with the same descriptive statistics) but listed under different survey sources. For exact question wording, sources and other information regarding the Spanish and US executive approval measures, I must defer to the Executive Approval Project who kindly donated and maintain ownership and intellectual property over the data: *[http : //www.executiveapprovaldata.org](http://www.executiveapprovaldata.org)*.

Table A.1 - Question Items Used in British Immigration Opinions Measurements

| Label | Question Wording | Survey | Topic | Mean | S.D. |
|-----------|---|--------|---------|-------|-------|
| BES_CULT | Do you think that immigration undermines or enriches Britain's cultural life? | BES | Culture | 0.539 | 0.047 |
| BES_ECON | Do you think immigration is good or bad for Britain's economy? | BES | Economy | 0.488 | 0.079 |
| BES_NUM | Do you think that too many immigrants have been let into this country, or not | BES | Numbers | 0.745 | 0.056 |
| BES_WELF | Immigrants are a burden on the welfare state. | BES | Welfare | 0.675 | 0.050 |
| BSA_ECON | Immigrants generally are good for Britain's economy | BES | Economy | 0.504 | 0.165 |
| BSA_CRIME | Immigrants increase crime rates | BES | Crime | 0.545 | 0.082 |
| BSA_CULT | Immigrants make Britain more open to new ideas and cultures | BES | Culture | 0.384 | 0.132 |
| BSA_JOBS | Immigrants take jobs away from people who were born in Britain | BES | Jobs | 0.568 | 0.060 |
| BSA_JOBS | Immigrants take jobs away from people who were born in Britain. | BSA | Jobs | 0.568 | 0.060 |
| BSA_AUS | Do you think Britain should allow more settlement, less settlement, or about the same amount as now by people from Australia and New Zealand | BSA | Numbers | 0.750 | 0.049 |
| BSA_ASI | Do you think Britain should allow more settlement, less settlement, or about the same amount as now by Indians and Pakistanis | BSA | Numbers | 0.969 | 0.010 |
| BSA_EEC | Do you think Britain should allow more settlement, less settlement, or about the same amount as now by people from the European Economic Community | BSA | Numbers | 0.859 | 0.027 |
| BSA_WIN | Do you think Britain should allow more settlement, less settlement, or about the same amount as now by West Indians | BSA | Numbers | 0.960 | 0.014 |
| BES_NUM | Do you think that too many immigrants have been let into the country or not? | BSA | Numbers | 0.745 | 0.056 |
| BSA_NUM | Do you think the number of immigrants to Britain nowadays should be increased a lot, increased a bit, kept the same, reduced a bit, or reduced a lot? | BSA | Numbers | 0.944 | 0.010 |
| BSA_CRIME | How much do you agree or disagree with the following statements: Immigration increases crime rates | BSA | Crime | 0.545 | 0.082 |
| BSA_ECN2 | On a scale of 0 to 10, where 0 is extremely bad and 10 is extremely good, would you say it is generally bad or good for Britain's economy that migrants come to Britain from other countries? | BSA | Economy | 0.566 | 0.079 |
| BSA_CULT2 | On a scale of 0 to 10, would you say that Britain's cultural life is generally undermined or enriched by migrants coming to live here from other countries? | BSA | Culture | 0.551 | 0.035 |

| Label | Question Wording | Survey | Topic | Mean | S.D. |
|-----------|--|--------|----------------------|-------|-------|
| BSA_FAM | About the families (husbands, wives, children, parents) of people who have already settled in Britain. Would you say in general that Britain should . . . be stricter in controlling the settlement of close relatives OR be less strict in controlling the settlement of close relatives? | BSA | Family Reunification | 0.856 | 0.015 |
| ESS_CULT | Would you say that [country]'s cultural life is generally undermined or enriched by people coming to live here from other countries? | ESS | Culture | 0.478 | 0.089 |
| ESS_IMM2 | How about people of a different race or ethnic group from most [country] people? | ESS | Numbers | 0.456 | 0.062 |
| ESS_LIVE | Is [country] made a worse or a better place to live by people coming to live here from other countries? | ESS | Impact | 0.530 | 0.080 |
| ESS_IMM1 | To what extent do you think [country] should allow people of the same race or ethnic group as most [country] people to come and live here ? | ESS | Numbers | 0.359 | 0.048 |
| ESS_ECON | Would you say it is generally bad or good for [country]'s economy that people come to live here from other countries? | ESS | Economy | 0.522 | 0.099 |
| ESS_IMM3 | How about people from the poorer countries outside Europe? | ESS | Numbers | 0.513 | 0.061 |
| EVS_JOBS | Do you agree or disagree with the following statement? When jobs are scarce, employers should give priority to [country nationality] people over immigrants | EVS | Jobs | 0.613 | 0.068 |
| ESS_CULT | A country's cultural life is undermined by immigrants/A country's cultural life is not undermined by immigrants | EVS | Culture | 0.478 | 0.089 |
| EVS_NEIGH | On this list are various groups of people. Could you please tell me any that you would not, generally speaking, like to have as neighbours? Immigrants/Foreign Workers | EVS | Xenophobia | 0.210 | 0.171 |
| EVS_NEIGH | On this list are various groups of people. Could you please tell me any that you would not, generally speaking, like to have as neighbours? Immigrants/Foreign Workers | WVS | Xenophobia | 0.210 | 0.171 |
| EVS_PRI~Y | Do you agree or disagree with the following statement? When jobs are scarce, employers should give priority to [country nationality] people over immigrants | EVS | Jobs | 0.613 | 0.068 |
| EVS_PRI~Y | Do you agree or disagree with the following statement? When jobs are scarce, employers should give priority to [country nationality] people over immigrants | WVS | Jobs | 0.613 | 0.068 |

| Label | Question Wording | Survey | Topic | Mean | S.D. |
|------------|--|--------|----------------------|-------|-------|
| EB.NUM | Generally speaking, how do you feel about the number of foreigners living in [COUNTRY]?Are there too many, a lot but not too many, or not many? | EB | Numbers | 0.536 | 0.042 |
| EB.DISTURB | Some people are disturbed by the opinions, customs and way of life of people different from themselves. Do you personally, in your daily life find disturbing the presence of people of another nationality? | EB | Xenophobia | 0.133 | 0.024 |
| EB.FAMILY | For each of the following statements, could you please tell me whether you tend to agree or whether you tend to disagree; Legally established immigrants from outside the European Union should have the right to bring members of their immediate family into the UK | EB | Family Reunification | 0.600 | 0.063 |
| EB.RIGHTS | For each of the following statements, could you please tell me whether you tend to agree or whether you tend to disagree; Legally established immigrants from outside the European Union should have the same social rights as UK citizens | EB | Social Rights | 0.354 | 0.038 |
| EB.RIGHTS2 | Still thinking of these people [people living in [COUNTRY] who are not from European Community countries], do you think their rights should be? | EB | Social Rights | 0.766 | 0.128 |
| EB.SEND~K | For each of the following statements, could you please tell me whether you tend to agree or whether you tend to disagree; All immigrants, whether legal or illegal, from outside the European Union and their children, even those who were born in the UK, should be sent back to their country of origin | EB | Repatriation | 0.210 | 0.043 |
| EB.SEND~K2 | For each of the following statements, could you please tell me whether you tend to agree or whether you tend to disagree; Legally established immigrants from outside the European Union should be sent back to their country of origin if they have been convicted of serious offences | EB | Repatriation | 0.810 | 0.023 |
| EB.SEND~K3 | For each of the following statements, could you please tell me whether you tend to agree or whether you tend to disagree; Legally established immigrants from outside the European Union should all be sent back to their country of origin | EB | Repatriation | 0.250 | 0.056 |
| EB.SEND~K4 | For each of the following statements, could you please tell me whether you tend to agree or whether you tend to disagree; Legally established immigrants from outside the European Union should be sent back to their country of origin in they are unemployed | EB | Repatriation | 0.390 | 0.054 |

| Label | Question Wording | Survey | Topic | Mean | S.D. |
|------------|--|--------|-------|-------|-------|
| ESS_GAY* | Please say to what extent you agree or disagree with each of the following statements: Gay men and lesbians should be free to live their own life as they wish | ESS | NA | 0.058 | 0.020 |
| ESS_TRUST* | Generally speaking, would you say that most people can be trusted, or that you can't be too careful in dealing with people? | ESS | NA | 0.402 | 0.029 |
| ESS_SATIS* | And on the whole, how satisfied are you with the way democracy works in [country]? | ESS | NA | 0.450 | 0.052 |

* Question items used only in the 'InvalidMood' estimation.

Table A.2 - Question Items Used in Dutch Foreigners and Diversity Opinions Measurements

| Label | Question Wording | Survey | Topic | Mean | S.D. |
|------------|---|--------|-------------------------|-------|------|
| ESS_CULT | Would you say that [country]'s cultural life is generally undermined or enriched by people coming to live here from other countries? | ESS | Culture | 77.56 | 2.59 |
| ESS_IMM2 | How about people of a different race or ethnic group from most [country] people? | ESS | Numbers | 61.28 | 6.21 |
| ESS_LIVE | Is [country] made a worse or a better place to live by people coming to live here from other countries? | ESS | Impact | 55.73 | 7.95 |
| ESS_IMM1 | To what extent do you think [country] should allow people of the same race or ethnic group as most [country] people to come and live here ? | ESS | Numbers | 67.09 | 5.23 |
| ESS_ECON | Would you say it is generally bad or good for [country]'s economy that people come to live here from other countries? | ESS | Economy | 56.80 | 7.79 |
| ESS_IMM3 | How about people from the poorer countries outside Europe? | ESS | Numbers | 54.17 | 4.67 |
| EB_NUM | Generally speaking, how do you feel about the number of foreigners living in [COUNTRY]?Are there too many, a lot but not too many, or not many? | EB | Numbers | 55.86 | 6.59 |
| EB_DISTURB | Some people are disturbed by the opinions, customs and way of life of people different from themselves. Do you personally, in your daily life find disturbing the presence of people of another nationality? | EB | Xenophobia | 87.43 | 2.86 |
| EB_FAMILY | For each of the following statements, could you please tell me whether you tend to agree or whether you tend to disagree; Legally established immigrants from outside the European Union should have the right to bring members of their immediate family into the Netherlands | EB | Family Reunification | 42.92 | 7.47 |
| EB_RIGHTS | For each of the following statements, could you please tell me whether you tend to agree or whether you tend to disagree; Legally established immigrants from outside the European Union should have the same social rights as Dutch citizens | EB | Social Rights | 74.47 | 2.11 |
| EB_RIGHTS2 | Still thinking of these people [people living in [COUNTRY] who are not from European Community countries], do you think their rights should be? | EB | Social Rights | 35.33 | 8.81 |

| Label | Question Wording | Survey | Topic | Mean | S.D. |
|------------|---|--------|--------------|-------|-------|
| EB_SEND~K | For each of the following statements, could you please tell me whether you tend to agree or whether you tend to disagree; All immigrants, whether legal or illegal, from outside the European Union and their children, even those who were born in the Netherlands, should be sent back to their country of origin | EB | Repatriation | 83.95 | 5.47 |
| EB_SEND~K2 | For each of the following statements, could you please tell me whether you tend to agree or whether you tend to disagree; Legally established immigrants from outside the European Union should be sent back to their country of origin if they have been convicted of serious offences | EB | Repatriation | 20.20 | 3.63 |
| EB_SEND~K3 | For each of the following statements, could you please tell me whether you tend to agree or whether you tend to disagree; Legally established immigrants from outside the European Union should all be sent back to their country of origin | EB | Repatriation | 83.43 | 6.85 |
| EB_SEND~K4 | For each of the following statements, could you please tell me whether you tend to agree or whether you tend to disagree; Legally established immigrants from outside the European Union should be sent back to their country of origin in they are unemployed | EB | Repatriation | 65.00 | 6.73 |
| EVS_NEIGH | On this list are various groups of people. Could you please tell me any that you would not, generally speaking, like to have as neighbours? Immigrants/Foreign Workers | EVS | Xenophobia | 88.50 | 4.97 |
| EVS_NEIGH | On this list are various groups of people. Could you please tell me any that you would not, generally speaking, like to have as neighbours? Immigrants/Foreign Workers | WVS | Xenophobia | 88.50 | 4.97 |
| IMMEE | Do you think that people coming from Eastern Europe who wish to work in the West should be accepted without restrictions, be accepted but with restrictions, or not be accepted? | EB | Numbers | 33.24 | 8.65 |
| ASYLE2 | Do you think that those seeking asylum be accepted without restrictions, be accepted but with restrictions, or not be accepted? | EB | Asylum | 70.68 | 13.62 |
| RACED | Some people are disturbed by the opinions, customs and way of life of people different from themselves. Do you personally, in your daily life find disturbing the presence of people another race? | EB | Racism | 91.02 | 1.22 |
| IMMNUMB2 | Would you again like to express an opinion on those types of government policies, and say for each of them whether you think the government is doing too much, just enough or too little about it? The policy on the number of foreigners received. | SCP | Numbers | 12.70 | 3.36 |

| Label | Question Wording | Survey | Topic | Mean | S.D. |
|---------|---|--------|------------|-------|------|
| ASYLE | Allowing asylum seekers to enter the Netherlands has frequently been in the news during the last few years. Some people think that the Netherlands should allow more asylum seekers than the government currently does. Other people think that the Netherlands should send asylum seekers who are already staying here back to their country of origin. Of course, there are also people whose opinion lies somewhere in between. And where would you place yourself on this line? | DPES | Asylum | 32.15 | 4.49 |
| ETHNICM | There is disagreement in the Netherlands about foreigners and ETHNIC MINORITIES. Some people and parties think that these people should be able to live in the Netherlands while preserving all customs of their own culture. Others think that these people, if they stay in the Netherlands, should completely adjust themselves to Dutch culture. Of course, there are also people whose opinion is somewhere in between. And where would you place yourself on this line? | DPES | Xenophobia | 22.44 | 4.40 |