Replication files for: "Central Bank Information Effects and Transatlantic Spillovers" by Marek Jarociński, September 3, 2022

This Readme file gives an overview of the folder tree and provides instructions to replicate each table and figure in the paper. The results in the paper were generated with Matlab R2021b.

1 Folders

data - Source data and Stata and Matlab programs used for the construction of some derived variables, such as interest rate surprises, broad dollar excluding Euro, Europe-exposed and US-exposed stock indices.

workm_lp - Matlab programs that estimate local projections.

workm_var - Matlab programs that estimate Bayesian VARs.

2 Replicating the results in the paper

Some of the replication scripts start with a preamble enclosed between lines

%%%%% Preamble %%%%%

. . .

%%%% End of the preamble %%%%%

and containing lines of code commented out with %. Before running these scripts with Matlab, first uncomment the appropriate lines in the preamble, depending on the table/figure to be replicated. The following instructions provide, for each figure and table, the name of the script and, if needed, the lines to be uncommented. All the lines in the preamble that are not mentioned explicitly should remain commented.

2.1 Main paper

Figure 1: Run the script data\shocks\plots_and_stats\main2.m

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Figure 2: Run the script workm_lp\main2.m uncommenting the lines
shockspec = 'ecb_mpd_me_njt'; % ECB shocks
varlist = {'sveny01_d','sveny10_d','sp500_d','bofaml_us_hyld_oas_d',...
   'eurusd_d','broadexea_usd_d'};
Note that this will also compute and print out the results for the lines "Share \beta^{MP} significant"
and "Share \beta^{CBI} significant" in Table 2.
Figure 3: Run the script workm_var\main.m uncommenting the lines
specid = 'us_gdp';
shocksrc = 'ecb';
shockid = 'sgnm2';
Figure 4: Run the script workm_lp\main.m uncommenting the lines
shockspec = 'macro_releases'; % Macro release surprises
shocktype = 'z_ea_bcs_confind'; Xnames = {shocktype};
varlist = {'sveny01_d', 'sveny10_d', 'sp500_d', 'bofaml_us_hyld_oas_d',...
   'eurusd_d', 'broadexea_usd_d'};
Figure 5: Run the script workm_lp\main.m uncommenting the lines
shockspec = 'macro_releases'; % Macro release surprises
shocktype = 'z_ea_unemp'; Xnames = {shocktype};
varlist = {'sveny01_d','sveny10_d','sp500_d','bofaml_us_hyld_oas_d',...
   'eurusd_d','broadexea_usd_d'};
Figure 6: 1) Run the script workm_lp\main2.m uncommenting the lines
shockspec = 'ecb_mpd_me_njt'; % ECB shocks
varlist = {'sp500geo_eu0w_d', 'sp500geo_us0w_d',...
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'sp500fin_d', 'sp500exfin_d', 'willsmlcap_d', 'willlrgcap_d'};
This will replicate the first column.
2) Run the script workm_lp\main.m uncommenting the lines
shockspec = 'macro_releases'; % Macro release surprises
shocktype = 'z_ea_bcs_confind'; Xnames = {shocktype};
varlist = {'sp500geo_eu0w_d', 'sp500geo_us0w_d',...
      'sp500fin_d', 'sp500exfin_d', 'willsmlcap_d', 'willlrgcap_d'};
This will replicate the second column.
3) Run the script workm_lp\main.m uncommenting the lines
shockspec = 'macro_releases'; % Macro release surprises
shocktype = 'z_ea_unemp'; Xnames = {shocktype};
varlist = {'sp500geo_eu0w_d', 'sp500geo_us0w_d',...
      'sp500fin_d', 'sp500exfin_d', 'willsmlcap_d', 'willlrgcap_d'};
This will replicate the third column.
Figure 7: 1) Run the script workm_var\main.m uncommenting the lines
specid = 'us_ff';
shocksrc = 'ecb';
shockid = 'sgnm2';
This will replicate the first plot.
2) Run the script workm_var\main.m uncommenting the lines
specid = 'us_wx';
shocksrc = 'ecb';
shockid = 'sgnm2';
This will replicate the second plot.
3) Run the script workm_var\main.m uncommenting the lines
specid = 'us_kr';
shocksrc = 'ecb';
shockid = 'sgnm2';
```

This will replicate the third plot.

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Figure 8: 1) Run the script workm_var\main.m uncommenting the lines
specid = 'us_gdp';
shocksrc = 'fed';
shockid = 'sgnm2';
This will replicate the first column.
2) Run the script workm_var\main.m uncommenting the lines
specid = 'ea_gdp';
shocksrc = 'ecb';
shockid = 'sgnm2';
This will replicate the second column.
Figure 9: Run the script workm_lp\main2.m uncommenting the lines
shockspec = 'fed_gssipa_me_99njt';
varlist = {'bund1y_d', 'bund10y_d', 'stoxx50_d', 'bofaml_ea_hyld_oas_d',...
    'eurusd_d', 'broadexea_usd_d'};
Figure 10: Run the script workm_var\main.m uncommenting the lines
specid = 'ea_gdp';
shocksrc = 'fed';
shockid = 'sgnm2';
Table 1: 1) Run the script workm_lp\main.m uncommenting the lines
shockspec = 'ecb_mpd_me_njt'; % ECB shocks
shocktype = 'median'; Xnames = {'MP_median', 'CBI_median'};
varlist = {'sveny01_d','bund1y_d'};
This will replicate the results for the median shocks (the upper parts of both panels).
2) Run the script workm_lp\main.m uncommenting the lines
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```
shockspec = 'ecb_mpd_me_njt'; % ECB shocks
shocktype = 'pm'; Xnames = {'MP_pm', 'CBI_pm'};
varlist = {'sveny01_d','bund1y_d'};
This will replicate the results for the "simple" ("poor man") shocks (the lower parts of both
panels).
Table 2: 1) Run the script workm_lp\main.m uncommenting the lines
shockspec = 'ecb_mpd_me_njt'; % ECB shocks
shocktype = 'q25'; Xnames = {'MP_q25','CBI_q25'};
varlist = {'sveny01_d','bund1y_d'};
This will replicate the results for the 25th percentile shocks (the upper part).
2) Run the script workm_lp\main.m uncommenting the lines
shockspec = 'ecb_mpd_me_njt'; % ECB shocks
shocktype = 'q75'; Xnames = {'MP_q75','CBI_q75'};
varlist = {'sveny01_d','bund1y_d'};
This will replicate the results for the 75th percentile shocks (the lower part).
For replicating the lines "Share \beta^{MP} significant" and "Share \beta^{CBI} significant" see the in-
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2.2 Online Appendix

structions for Figure 2.

Table A.1, Table A.2, Figure A.1: Run the script data\shocks\plots_and_stats\main1.m

Table A.3, Figure A.2, A.3, A.4: Run the script data\shocks\plots_pconf\main1.m and data\shocks\plots_pconf\main2.m

Table B.1, Figure B.1: Run the script data\shocks\plots_and_stats\main3.m

Table C.1: 1) Run the script workm_lp\main.m uncommenting the lines shockspec = 'ecb_mpd_me_njt'; % ECB shocks

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varlist = {'sveny01_d','bund1y_d','sveny10_d','bund10y_d'};
shocktype = 'surp'; Xnames = {'pc1eon1_me_njt'};
2) Run the script workm_lp\main.m uncommenting the lines
shockspec = 'ecb_mpd_me_njt'; % ECB shocks
varlist = {'sveny01_d', 'bund1y_d', 'sveny10_d', 'bund10y_d'};
shocktype = 'median'; Xnames = {'MP_median', 'CBI_median'};
3) Run the script workm_lp\main.m uncommenting the lines
shockspec = 'ecb_mpd_me_njt'; % ECB shocks
varlist = {'sveny01_d', 'bund1y_d', 'sveny10_d', 'bund10y_d'};
shocktype = 'pm'; Xnames = {'MP_pm','CBI_pm'};
Table C.2: 1) Run the script workm_lp\main.m uncommenting the lines
shockspec = 'ecb_mpd_me_njt';
shocktype = 'median'; Xnames = {'MP_median', 'CBI_median'};
varlist = {'ffn_d','ff3_d','ff6_d'};
This will replicate the results for the median shocks (the upper parts of all panels).
2) Run the script workm_lp\main.m uncommenting the lines
shockspec = 'ecb_mpd_me_njt';
shocktype = 'pm'; Xnames = {'MP_pm','CBI_pm'};
varlist = {'ffn_d','ff3_d','ff6_d'};
This will replicate the results for the "simple" ("poor man") shocks (the lower parts of all
panels).
Table C.3: 1) Run the script workm_lp\main.m uncommenting the lines
shockspec = 'ecb_mpd_me_njt';
shocktype = 'median'; Xnames = {'MP_median', 'CBI_median'};
varlist = {'bund1y_d','bund10y_d','stoxx50_d','bofaml_ea_hyld_oas_d',...
    'eurusd_d', 'broadexea_usd_d'};
```

This will replicate the results for the median shocks (the upper parts of all panels).

2) Run the script workm_lp\main.m uncommenting the lines

```
shockspec = 'ecb_mpd_me_njt';
shocktype = 'pm'; Xnames = {'MP_pm','CBI_pm'};
varlist = {'bund1y_d','bund10y_d','stoxx50_d','bofaml_ea_hyld_oas_d',...
    'eurusd_d','broadexea_usd_d'};
```

This will replicate the results for the "simple" ("poor man") shocks (the lower parts of all panels).

Table C.4: The same as Figure 4.

Table C.5: The same as Figure 5.

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Table C.6: Run the script workm_lp\main.m uncommenting the lines
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This will replicate the results for the median shocks (the upper parts of all panels).

2) Run the script workm_lp\main.m uncommenting the lines

This will replicate the results for the "simple" ("poor man") shocks (the lower parts of all panels).

Table C.7: The same as Figure 6, column 2.

Table C.8: The same as Figure 6, column 3.

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Table C.9: Run the script workm_lp\main.m uncommenting the lines
shockspec = 'fed_gssipa_me_99njt'; % Fed shocks
shocktype = 'median'; Xnames = {'MP_median', 'CBI_median'};
varlist = {'bund1y_d','bund10y_d','stoxx50_d','bofaml_ea_hyld_oas_d',...
    'eurusd_d', 'broadexea_usd_d'};
This will replicate the results for the median shocks (the upper parts of all panels).
2) Run the script workm_lp\main.m uncommenting the lines
shockspec = 'fed_gssipa_me_99njt'; % Fed shocks
shocktype = 'pm'; Xnames = {'MP_pm','CBI_pm'};
varlist = {'bund1y_d', 'bund10y_d', 'stoxx50_d', 'bofaml_ea_hyld_oas_d',...
    'eurusd_d', 'broadexea_usd_d'};
This will replicate the results for the "simple" ("poor man") shocks (the lower parts of all
panels).
Figure D.1: Run the script workm_var\main.m uncommenting the lines
specid = 'us_gdp';
shocksrc = 'ecb';
shockid = 'pm';
Figure D.2: Run the script workm_var\main.m uncommenting the lines
specid = 'ea_gdp';
shocksrc = 'ecb';
shockid = 'sgnm2';
Figure D.3: Run the script workm_var\main.m uncommenting the lines
specid = 'us_gdp';
shocksrc = 'fed';
shockid = 'sgnm2';
```