

# FISCAL RULE STRETCHING DURING FINANCIAL MARKET STRESS AND CRISIS

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## ELECTIONS & FISCAL STATISTICS

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Governments create **opportunistic political business and budget cycles** around **elections**.

These can be both **real** (e.g. Nordhaus 1975 and Clark 2003) and by **manipulating the data** (e.g. Alt, Lassen, and Wehner 2014 and De Castro et al. 2013).

**Too difficult** to time pumping the **real** economy/budget before **endogenous** elections (Kayser 2005).

So...

Second best, **manipulate the data.**

The media and **voters** typically **don't observe** revisions/don't use revisions in voting decision-making (Kayser and Leininger 2015, Kayser and Peress 2015).

## FISCAL ACCOUNTING IN EUROPE

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Stability and Growth Pact (SGP) sets deficit and debt limits.

Created an enforceable European government finance accounting regime, with **common rules** (European System of Accounts) and a **common monitoring institution–Eurostat** (Savage 2005).

**Comparable** fiscal statistics.

**Difficult** to simply **fabricate** the government's fiscal position.



However ...

## FISCAL RULE STRETCHING IN EU

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Member states have **first mover advantage**.

Debt and deficit figures are **first published by member states**.  
They have first crack at **classifying** a policy with **seemingly ambiguous** budgetary effects.

Eurostat **scrutinises and revises** published figures **post hoc**.

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  - **voters don't really care** about revisions...
- ...governments have strong incentives to **rule stretch**.

**Fiscal rule stretching:** if the fiscal implications of a policy are potentially ambiguous, then a decision is made to minimise its debt and/or debt implications



## ACCOUNTING POLICY RESPONSES TO FINANCIAL CRISES

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Voters want **financial stability**.

But...

Restoring stability is **expensive**, which **voters dislike**.

At the same time, policy responses to financial market stress and crisis are:

- rarely used (before 2008)
- often have **ambiguous debt and deficit implications**,
  - E.g. bad banks, liquidity assistance.
  - Are they contingent or immediately realised liabilities? Are they purchase or financial transactions?

## HYPOTHESES

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- $H_3$ : The effects predicted by  $H_1$  and  $H_2$  will be stronger when a country also has high financial market stress.

## EMPIRICS: SETUP

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**Dependent variable:** cumulative revisions made by **Eurostat** to government debt and deficit statistics (% of GDP) over the 3 years from initial publication. Revisions occur bi-annually (April & October).

Revisions to data for 2003-2013.

Cumulative **debt** revisions:  $[-1.1, 12.7]$  % of GDP

Cumulative **deficit** revisions:  $[-4.5, 1.1]$  % of GDP

**Unit of analysis:** Eurostat revision for a given year.

- There are typically 7 observations per publication year. The first in October of the publication year + twice a year for the subsequent 3.

**Note:** Changes due to GDP revisions are **not included**.

- Years to election (Gandrud 2015)
- Election type: no election, predetermined election, endogenous election (Hallerberg and Wehner)
- FinStress (Gandrud & Hallerberg, in development)

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- binary, no indication of intensity,
- created post hoc, not real-time. Policy-makers might perceive something different in real-time.

Kernel Principal Component Analysis of > 12,000 Economist Intelligence Unit **monthly** country reports on financial markets.

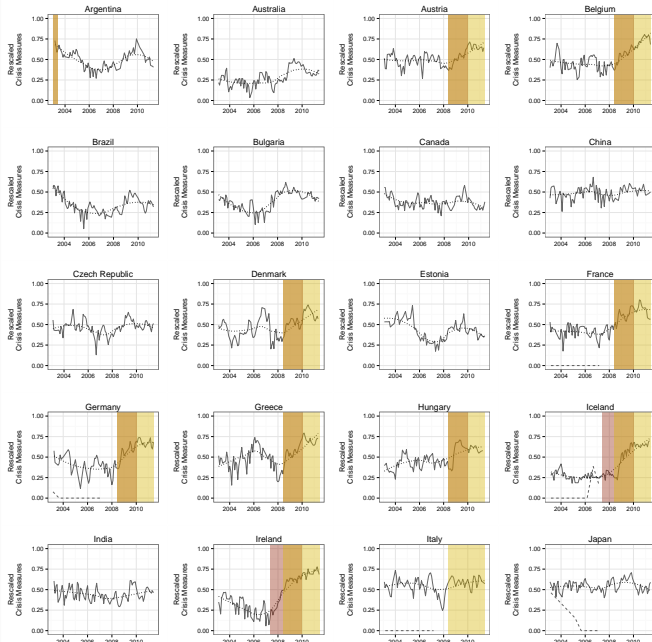
- > 180 countries
- 2003–2011

creating ...



**FinStress:** continuous  $[0, 1]$  indicator of real-time perceived credit provision stress.

Here, we use country-year means.



Why credit provision stress, not financial market stress more broadly?

In general, **politicians care** about financial market stress to the extent that it **hits credit provision to the real economy**.

Hypothesise that election variables have a **larger impact** on revisions during **high stress**.

so

Focus on **interactions** between election variables and FinStress.

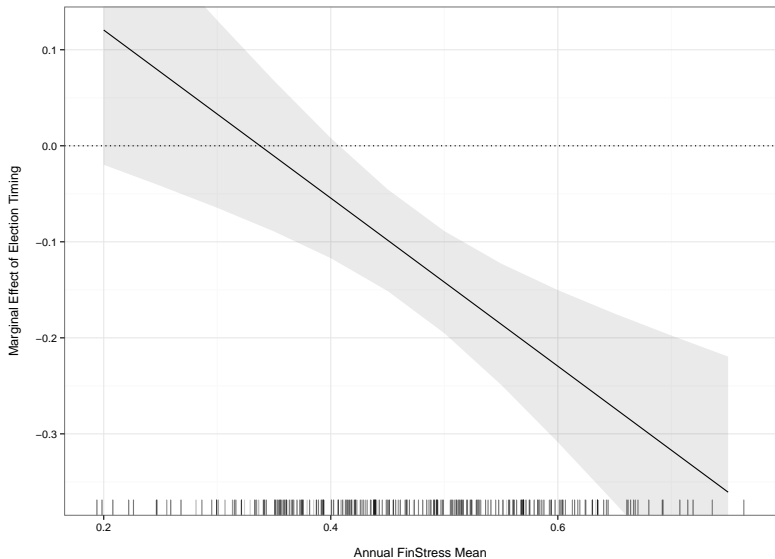
Also:

- Years since publication
- Eurozone membership
- Exchange rate (vs. USD)
- Absolute gross debt & deficit levels (2015 vintage)
- Country-varying intercepts

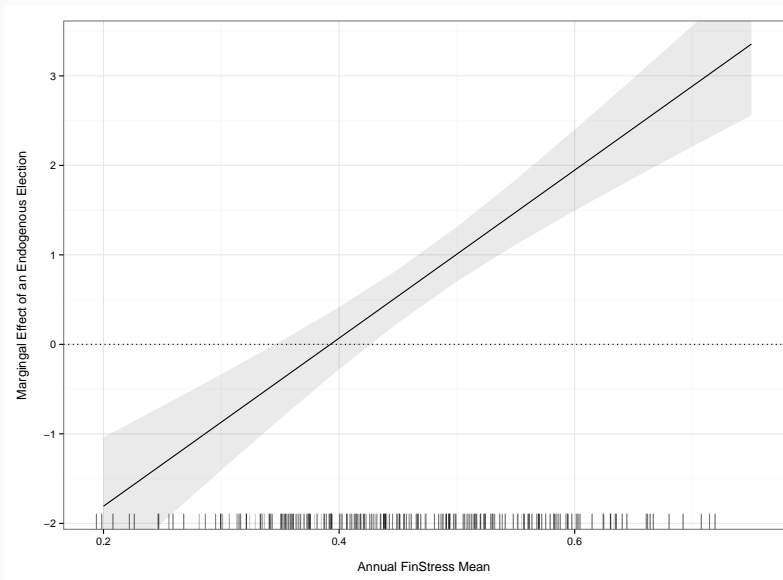
## EMPIRICS: (PRELIMINARY) RESULTS

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**Figure:** Marginal Effect of Election Timing (years to election) at Various Levels of Financial Market Stress on **Debt** Revisions

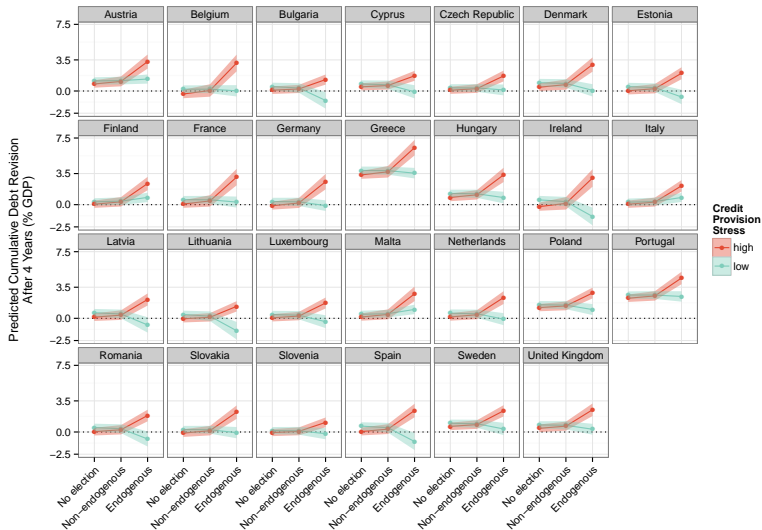


**Figure:** Marginal Effect of an Endogenous Election at Various Levels of Financial Market Stress on **Debt** Revisions

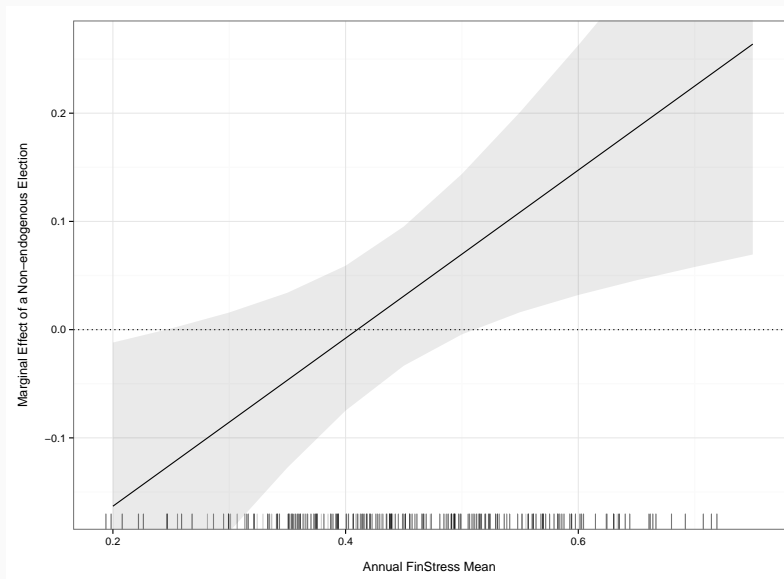




**Figure:** Predicted **Debt** Revisions in Four Years After Publication for Years with Different Election Types/Non-election Years



**Figure:** Marginal Effect of a Non-Endogenous Election at Various Levels of Financial Market Stress on **Deficit** Revisions



CONCLUSION/STILL TO DO

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Omitted variables?:

- independence of national accounting agency.
- SGP enforcement actions (not just eurozone membership)
- Others?

Model choice: normal linear regression with many 0s?

- Understand interaction between scheduled elections and FinStress on deficit revisions.