

# **A Stake in the International:**

## **US Banks and Basel III Regulatory Announcements**

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# Motivation

What are the effects of international bank regulations upon firms?

- Puzzle: How *strong* are bank regulatory agreements?
  - Regulatory networks & rules-based governance.
  - But, soft law.
- Competing theories on international cooperation in banking.
  - Cooperation mitigates risk (Kapstein 1989).
  - Cooperation benefits strong states' firms (Oatley & Nabors 1998).
- Problem: How to differentiate among mechanisms?
- Solution: Revisit the debate with systematic empirical analysis.
  - Renegotiation of intl bank rules (Basel III) in 2009 and 2010.
  - Stock returns of US firms when negotiation information is released.

# Overview

- Hypotheses:
  - If agreements primarily mitigate risk, banks will be hurt.
  - If agreements increase competitiveness, banks will be helped.
- Findings:
  - US regulated banks experience negative stock returns.
  - Effect size is small.
- Implications:
  - Banks are not advantaged by regulations.
  - US regulators not wholly captured.
  - Weak direct effects of even strongest intl financial agreements.

# International Banking Cooperation

- Basel I (1988), Basel II (2004), Basel III (2010).
- Basel Committee on Banking Supervision (BCBS).
  - Regulatory “Network” of head banking regulators.
  - Established in 1974.
  - Membership: 13-14 ctys (1974-2009) to 27 ctys (2009-).
- Rules-based.
- Soft law (non-binding; decentralized implementation).
- Private deliberation, negotiation.
- Public information through press releases.

# Basel III and Theories of Cooperation

- What are the effects of clear *increase* in regulatory stringency?
- Risk perspective implies negative effects on banks.
  - Adjustment costs.
    - Raise capital, change asset mix, decrease assets.
    - New internal processes to monitor and report.
  - Ongoing monitoring and reporting.
- Competitive perspective implies positive effects on banks.
  - Regulatory details have favorable distributional effects.
    - Increased minimums will hit European banks.
    - Leverage ratio (new intl requirement) already required in US.

# Measuring Regulatory Effect

- Quantity of interest: change in profitability due to regulations.
- Measure: US bank stock returns proxy for regulatory effect.
- Isolate effect of regulations using firm-level, daily estimates.
- What do stock returns capture?
  - Investor perception of regulatory impact.
  - Strong incentives to act sincerely.

# Hypotheses

- Hypothesis 1: If regulations primarily mitigate risk, then new information about regulations will lead to negative bank stock returns.
- Hypothesis 2: If regulations primarily increase domestic competitiveness, then new information about regulations will lead to positive bank stock returns.

# Five "Events" Comprise Basel III Negotiation

	<b>Press Release Description</b>	<b>Date</b>
1	Agree to Negotiate	2009 September 7
2	Consultative Proposal	2009 December 16
3	Agree to Finalize	2010 July 26
4	"Calibration" (Minimums)	2010 September 12
5	Final Rules Release	2010 December 17

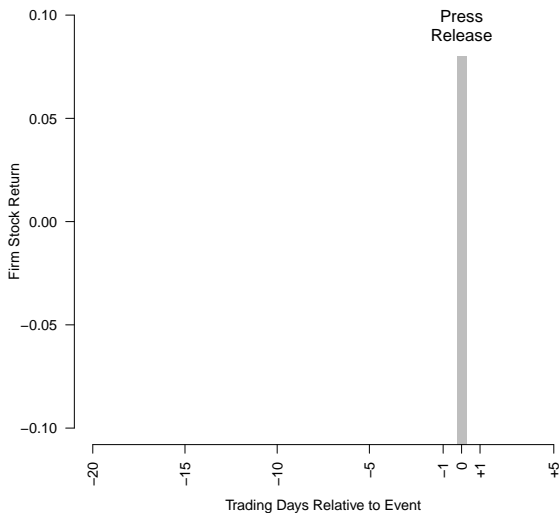
- 2009 September – 2010 December.
- Degree of detail varies across events.
- Cumulative increase in likelihood of stringent regulations.
- Basel III press releases as unexpected treatment.
  - Infrequent, opaque negotiations limit anticipation effects.
  - Clear observation of new information date and content.



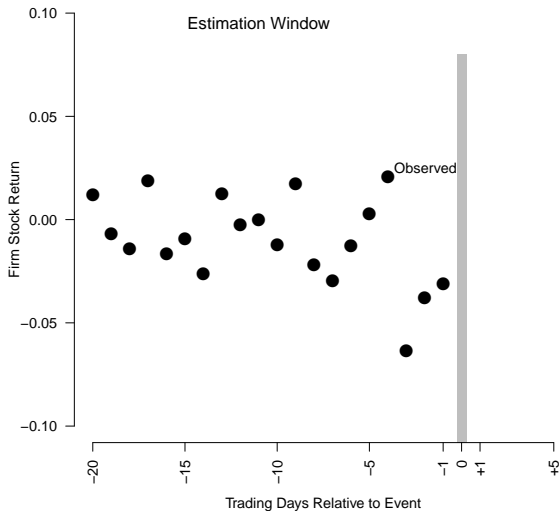
# Research Design - Event Study

- When new information is released about Basel III regulations, "*Do observed stock returns and expected stock returns differ*"?
  - 5 Events: BCBS press releases.
  - Sample firms: 46 US-headquartered, publicly-traded banks.
  - Firm estimations using daily stock data.
- Expected stock return (counterfactual) using lasso estimation.
  - "*For each sample firm for each press-release, what weighted-average subset of 2726 non-financial firm stock returns best approximates the sample firm stock returns prior to the press-release?*"
  - Enables short estimation window (approx regression discontinuity).

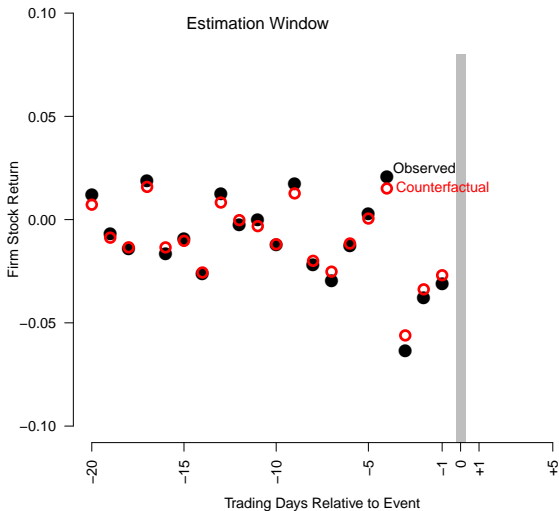
## Example - Event 2



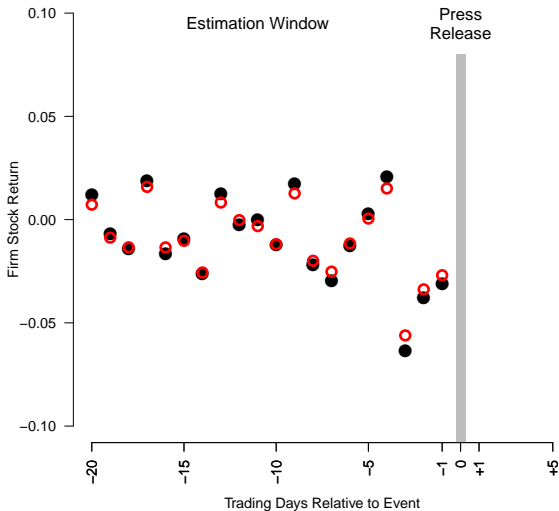
## Event 2, Citigroup



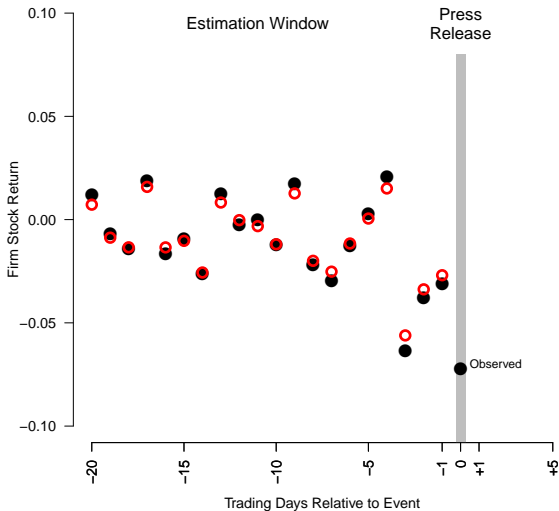
## Event 2, Citigroup



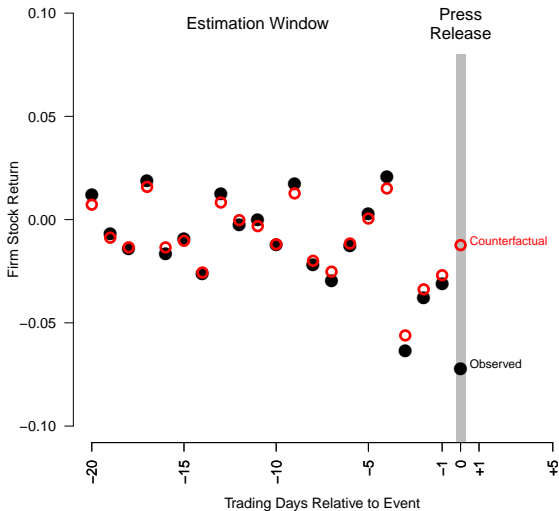
# Event 2, Citigroup



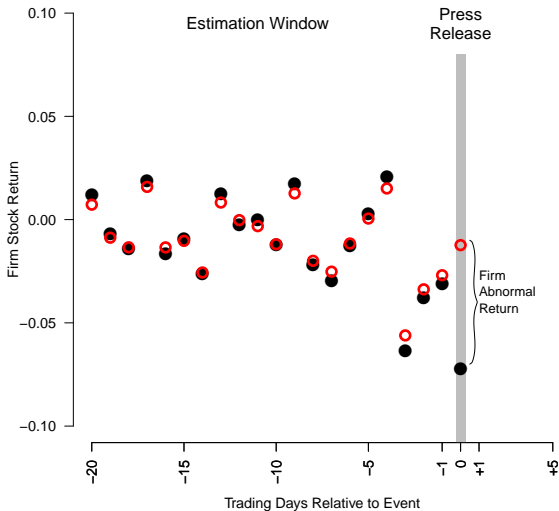
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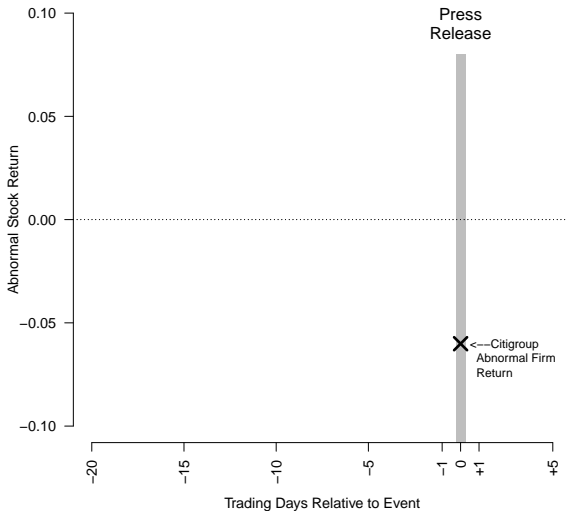


## Event 2, Citigroup

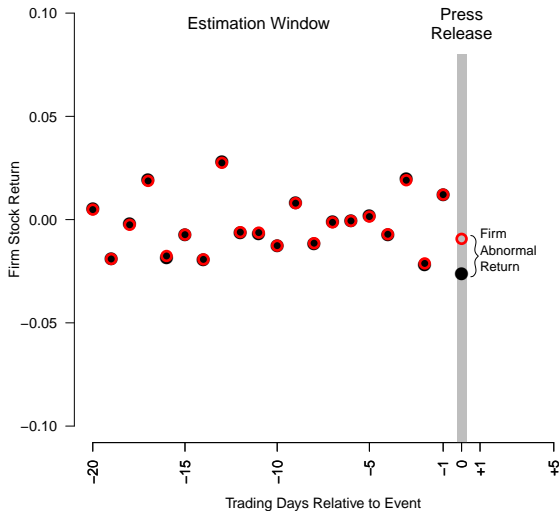




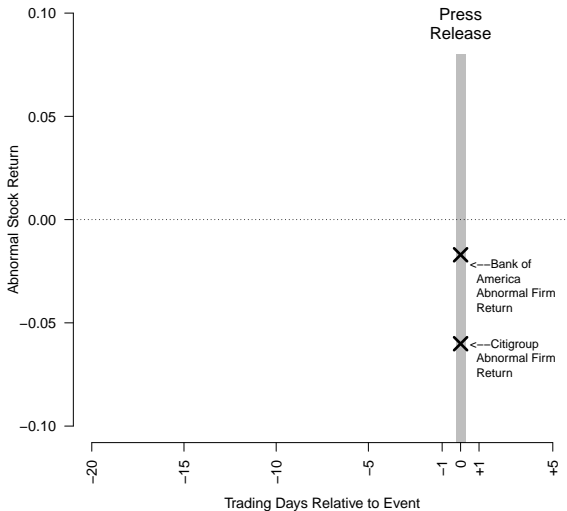
## Event 2, Firm Abnormal Returns



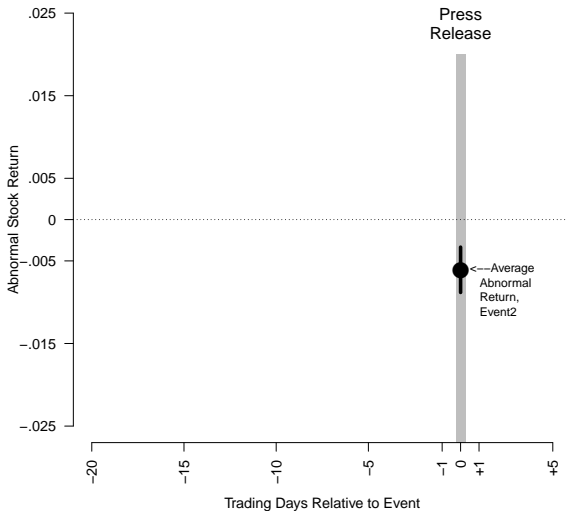
# Event 2, Bank of America



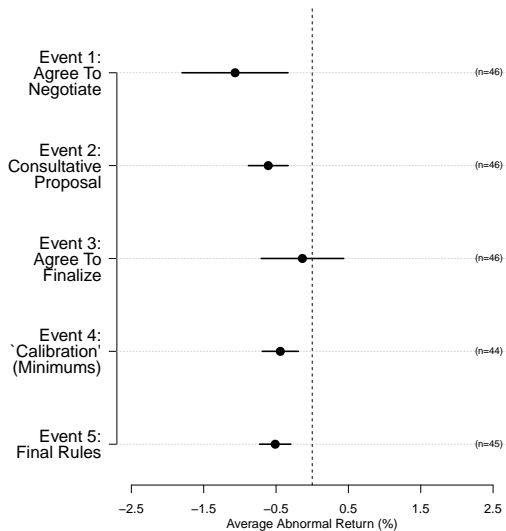
## Event 2, Firm Abnormal Returns



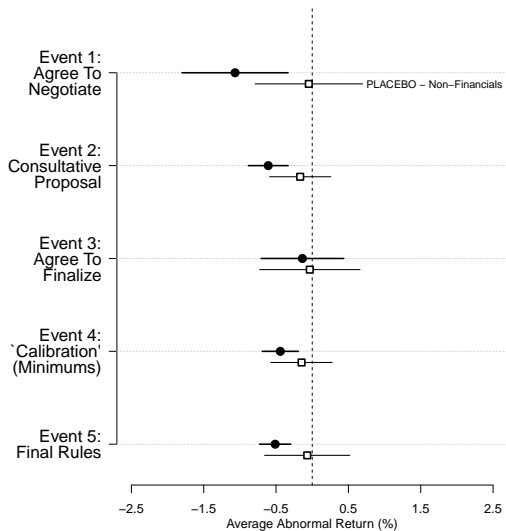
## Event 2, Average Abnormal Return



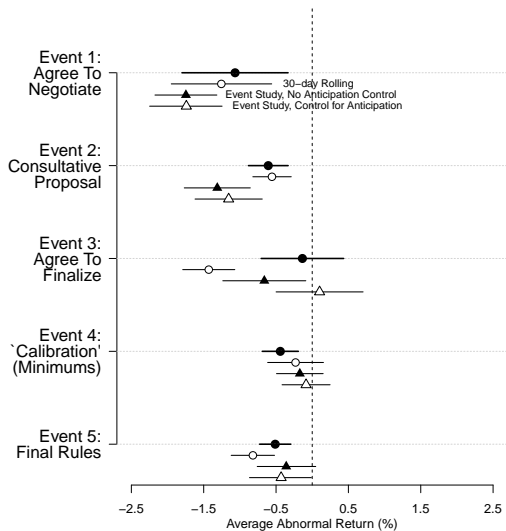
# Results - Average Abnormal Returns



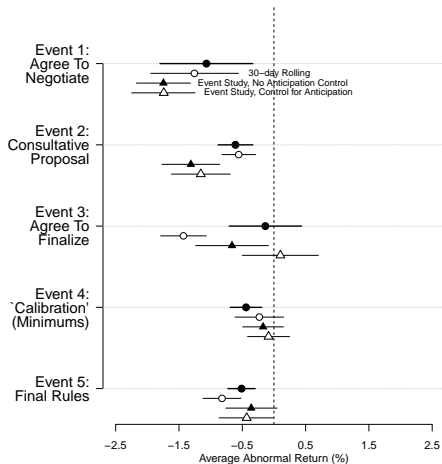
# Placebo Test - Non-Financial Firms



# Robust - Alternative Estimation Windows



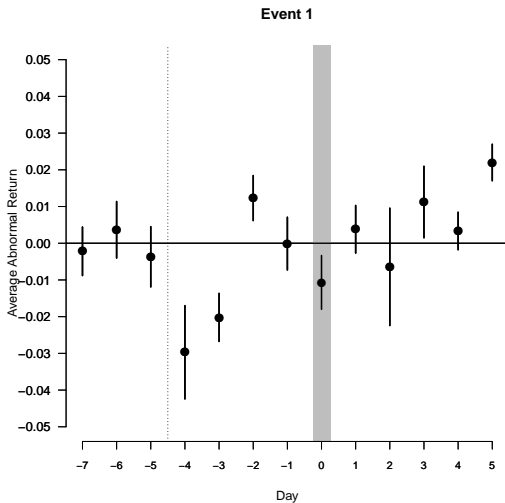
# Takeways



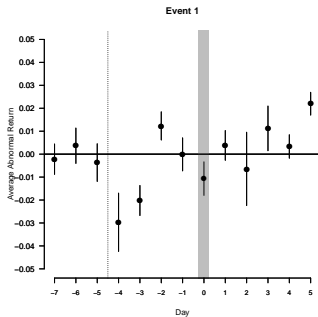
Overall, negative effect of regulations upon banks.  
More consistent with regulations mitigating risk.



# Magnitude of Average Abnormal Returns



# Magnitude of Average Abnormal Returns



*Magnitude of effect is small.*

# Conclusion

- Competing theories imply regulation may harm banks.
- Empirical test establishes:
  - US banks were slightly hurt.
  - US banks did not benefit.
- Implications:
  - In the case of Basel III...
    - ...regulators generally prioritized mitigating risk.
    - ...US regulators were not wholly captured.
  - Stringent international fin regs have small direct effects!