

# Conflicts of Interest in Municipal Bond Advising and Underwriting

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**Conflict of Interest:** “a situation in which a party to a transaction can potentially gain by taking actions that adversely affect its counterparty” (Mehran and Stulz, 2007)

### **Conflicts of interest common when acquiring financial information**

- ▶ Credit Rating Agencies  
*(Jiang, Stanford and Xie, 2012; Griffin and Tang, 2011)*
- ▶ Equity Research  
*(Agrawal and Chen, 2008; Fang and Yasuda, 2009)*
- ▶ Retirement planning services  
*(Boyson, 2019; Bhattacharya, Illanes and Padi, 2019)*

Of potential conflicts in muni bond issuance, focusing on underwriters who also sell advice

“Right now, a financial professional advising a municipality can guide the municipality towards securities tailored to his firm’s advantage, then resign and act as underwriter. This is a classic example of conflict of interest.”

- *Mary Schapiro, Chair of the SEC, May 7, 2010*

### **Quasi-Experiment from Recent Regulation:**

- ▶ Dodd-Frank (2010) charged SEC and MSRB with regulating advice
- ▶ May 2011, MSRB updated Rule G-23: “Activities of Financial Advisors”
- ▶ Forbids advisors from underwriting same issue, in effect Nov. 27, 2011

## Does prohibiting advisors from underwriting affect borrowing costs?

- ▶ Fixing a conflict of interest lowers costs (SEC, 2010; MSRB, 2011)
  - ▶ Advisor Underwriter  $\downarrow \implies$  Advice Quality  $\uparrow \implies$  Costs  $\downarrow$
- ▶ Taking away a potential underwriter raises costs (Bond Dealers of America, 2019)
  - ▶ Advisor Underwriter  $\downarrow \implies$  Underwriter Competition  $\downarrow \implies$  Costs  $\uparrow$

## Effect of limiting dual advising on 20,038 competitive bond sales

- ▶ Diff-in-diff Results: Borrowing costs  $\downarrow$  by 5.3% (11.4 basis points)
- ▶ Driven in part by  $\uparrow$  underwriter competition: 0.9 more non-advisor underwriters competing
  - ▶ Larger impact on less competitive auctions, schools

## Municipal Bond Issue Data

### Four primary data sources:

- ▶ SDC Platinum for bond issues and characteristics
- ▶ The Bond Buyer for bids and bidder identities
- ▶ MSRB EMMA for secondary market prices and yields
- ▶ Financial advisor ownership from Bergstresser and Luby (2018)

### Sample of interest:

- ▶ 20,038 tax-exempt, general obligation, **competitive** issues over \$1 million, repeat issuers
- ▶ 4,093 unique issuers issuing 4.9 times on average
- ▶ Sample ends in 2015 before fiduciary rule (Rule G-42)

## Research Design: Difference-in-Differences

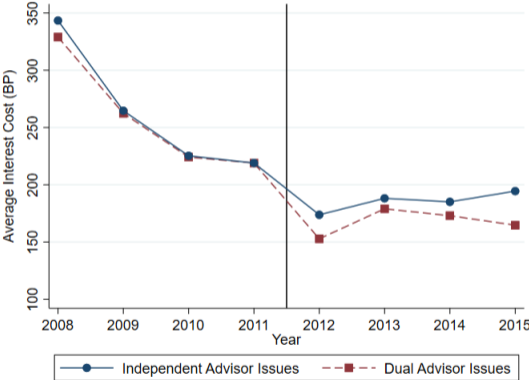
- ▶ Potential “Dual advisor”  $\equiv$  advisors whose firm underwrites issues they advised pre-2011
- ▶ Dual Advisor market shares and trends

### Difference-in-Differences Regression Model

$$Y_{ijt} = \alpha_j + \beta(\text{Dual}_{ijt} \times \text{Post}_t) + \delta_2 \text{Dual}_{ijt} + \delta_1 \text{Post}_t + \xi X_{ijt} + \varepsilon_{ijt}$$

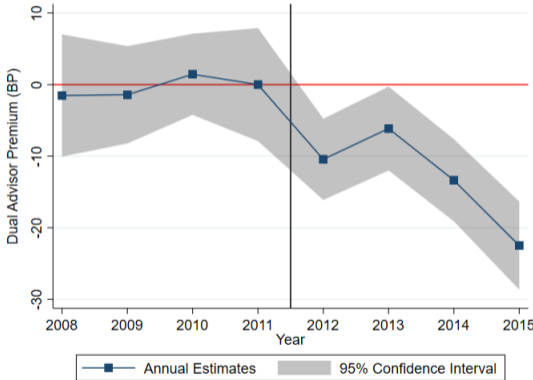
- ▶  $i$  denotes issue,  $j$  denotes municipality, while  $t$  denotes date
- ▶  $Y_{ijt}$  is the interest rate or number of auction participants
- ▶  $\text{Post}_t$  is an indicator function for dates after November 26, 2011

# Raw Difference-in-Differences (Winning Bid)



► Normalizing levels in 2011

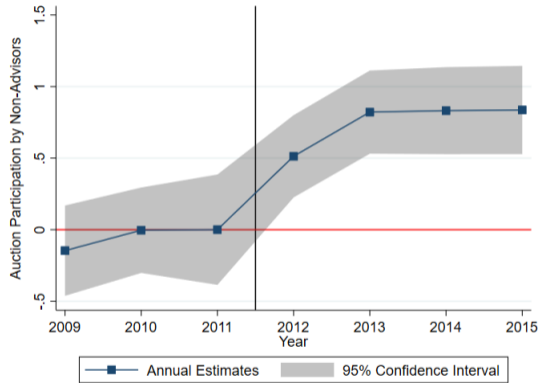
# Conditional Difference-in-Differences (Winning Bid)



► Borrowing costs decrease by 11.4 basis points on average



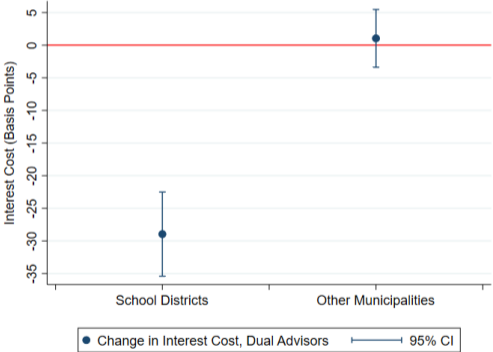
## Conditional Difference-in-Differences (Number of Bids)



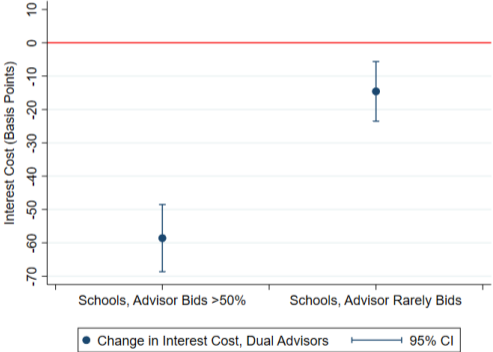
- ▶ Auction participation by non-advisors up by 0.9
- ▶ Total auction participation increases by 0.4

# Change in Winning Bid by Issuer Type

## A. Full Sample



## B. School Districts



## Research Design: Difference-in-Differences

### Identifying assumption: parallel trends

- ▶ Without intervention, dual and independently advised issue outcomes change in parallel

### Threats to Identification and Tests

- ▶ Selection into using dual advisor changing?
  - ▶ Define issuer-level treatment  $Dual_j \in [0, 1]$  based on pre-regulation behavior
- ▶ Dual advisors specialize in small, long maturity issuers. Different outcomes?
  - ▶ Complementary cross-sectional identification using selection model (ATE)
- ▶ Market factors influencing types of advisors differently?
  - ▶ Placebo test using untreated advisors associated with investment banks

## Mechanisms: Increasing Standardization, Liquidity

### Several margins where bond structure can affect borrowing costs

- ▶ Advisors can “guide the municipality towards securities tailored to his firm’s advantage”
- ▶ Find 3 changes in bonds issued with dual advisors after regulation:
  - ▶ School bonds increase likelihood of credit ratings (Wes Clarke, 1997)
  - ▶ School bonds increase likelihood of credit enhancements
  - ▶ School bond term structure changes slightly (shorter maturities, one CUSIP per year, etc.)
- ▶ Manifests as increased liquidity and decreased price dispersion in secondary markets

## Mechanisms: Asymmetric Information in Auctions

- ▶ In a common value auction with asymmetric information:
  - ▶ Informed underwriter (advisor) gets positive information rents
  - ▶ Other underwriters randomize bids for zero expected rents
- ▶ **Hypothesis:** advisor wins auction  $\implies$  larger profits (gross spread)
- ▶ Calculate gross spread as bid minus average market yield (7 day)
- ▶ In preperiod, regress spread on advisor bid and advisor win indicators
  - ▶ Gross spreads 3.5 bp (6%) lower when advisor bids and loses
  - ▶ Auctions that the advisor wins have higher gross spread
- ▶ Evidence of asymmetric information and **winner's curse** pre-MSRB Rule G-23

## Concluding Remarks

### Does prohibiting advisors from underwriting affect borrowing costs?

- ▶ Yes, borrowing costs decrease when advisors cannot underwrite
- ▶ Advisor bids more than fully replaced by other underwriters
- ▶ Low competition issuers, schools are the winners in the regulation
- ▶ Fiduciary rules, alone, would not fix negatives of allowing advisors to underwrite due to harming competitive interactions