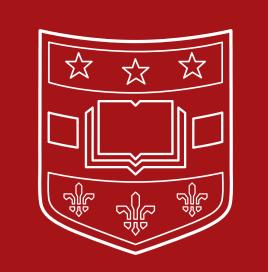


Responsiveness in a Fragmented Local Politics

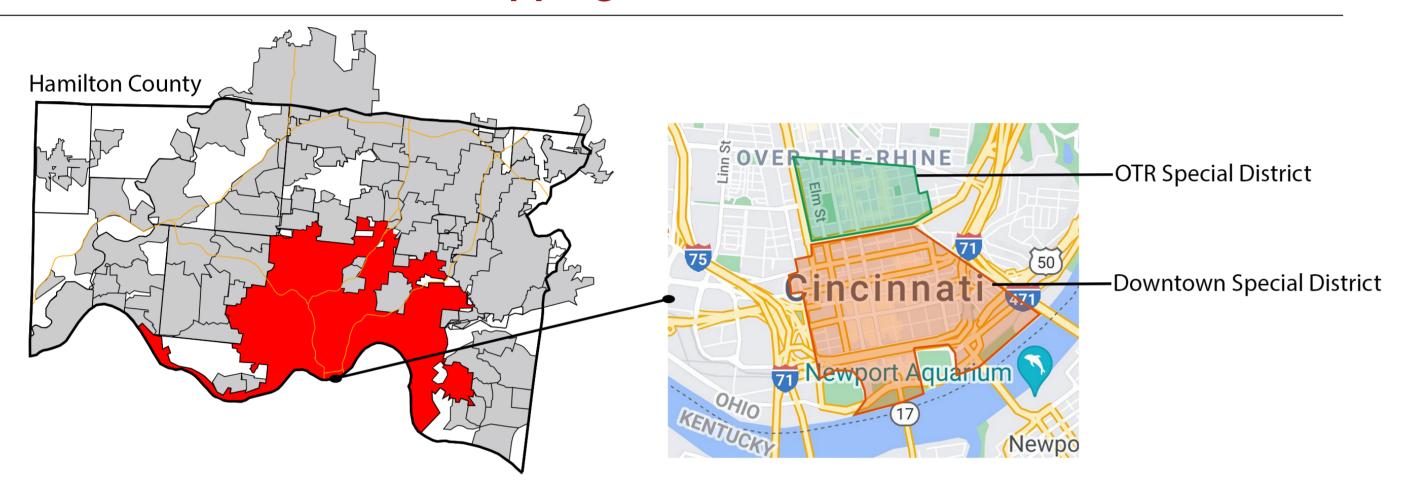
Bryant J. Moy



Responsive Politics or Static Cities?

Are local governments responsive given their overlapping nature? To examine responsiveness at this level, I **implement** a framework that takes into account multiple overlapping institutions and **estimate** a novel measure of local preferences for cities over time. I have three major findings using a within-between random-effects model: (1) cross-sectional responsiveness exists; (2) I find mixed evidence for dynamic responsiveness; (3) I find suggestive evidence that consolidated governance fosters greater responsiveness. In all, I **reframe** the responsiveness discussion away from a single governing unit to a holistic system of overlapping institutions.

Motivation: Overlapping Institutions of Cincinnati, OH

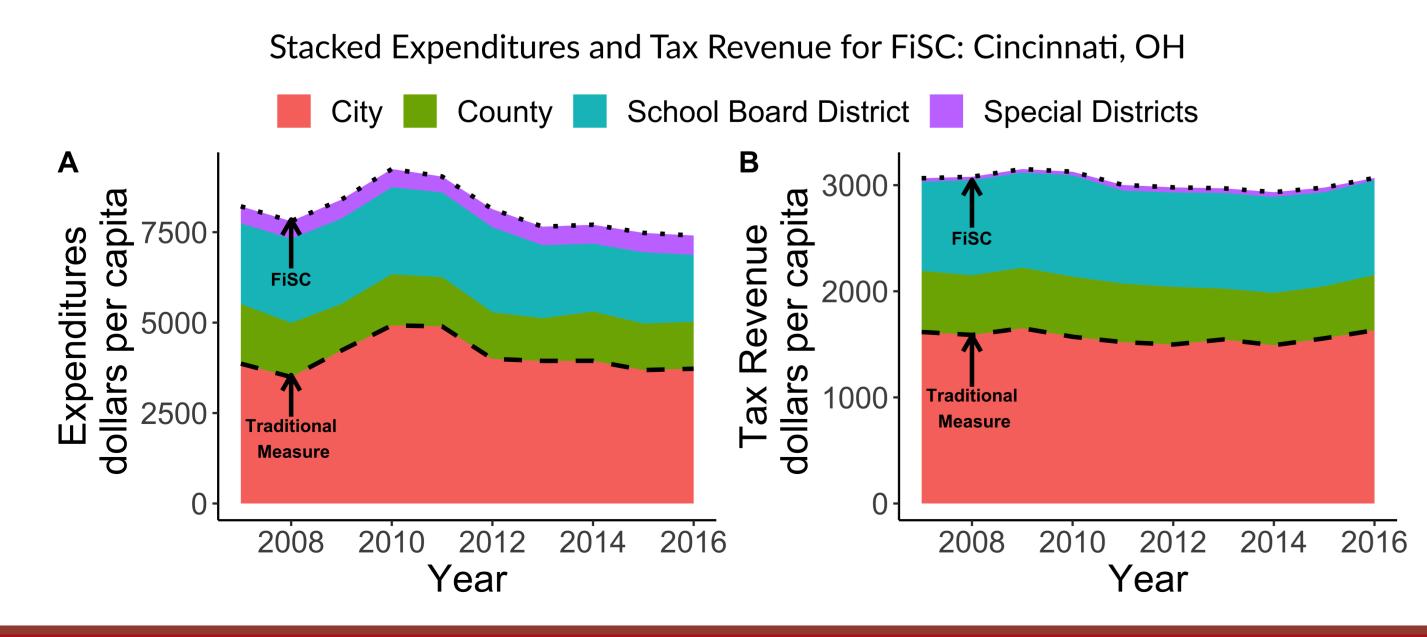


Research Questions

- RQ1: Does cross-sectional responsiveness exist?
- RQ2: Does dynamic responsiveness exist?
- RQ3: Does consolidated government modify the effect of public opinion on policy outcomes?

Sample: Fiscally Standardized Cities

- Fiscally Standardized Cities (FiSC) provide an **aggregate measure** of taxation and spending of overlapping governments within the geographic boundaries of cities (Langley 2013)
- Sample includes 200 cities across 10 years
- Traditional measure of expenditures and tax revenue fail to capture the full range of goods, services, and costs of local government
- The FiSC measure of government provides a better approach to analyze local governance



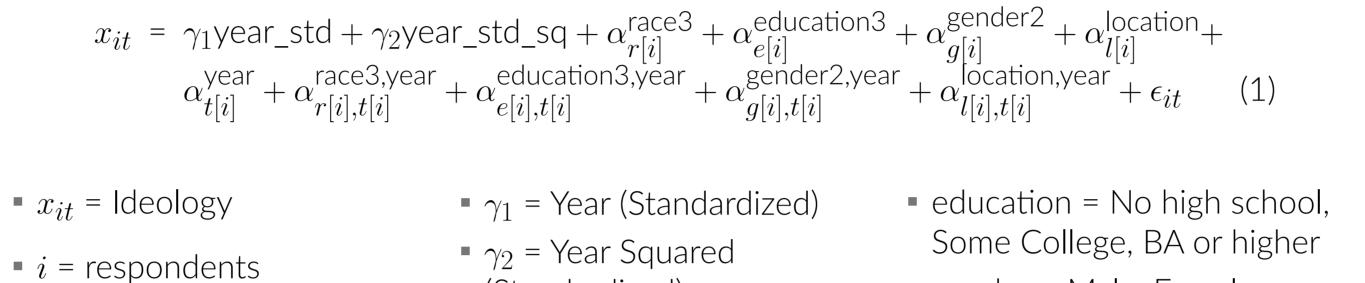
Novel Measure of Dynamic Local Ideology (N > 500,000)

- New dataset including self-placement ideology from multiple surveys:
- Cooperative Election Study
- National Annenberg Election Survey
- Gallup Social Series Poll

t = Year

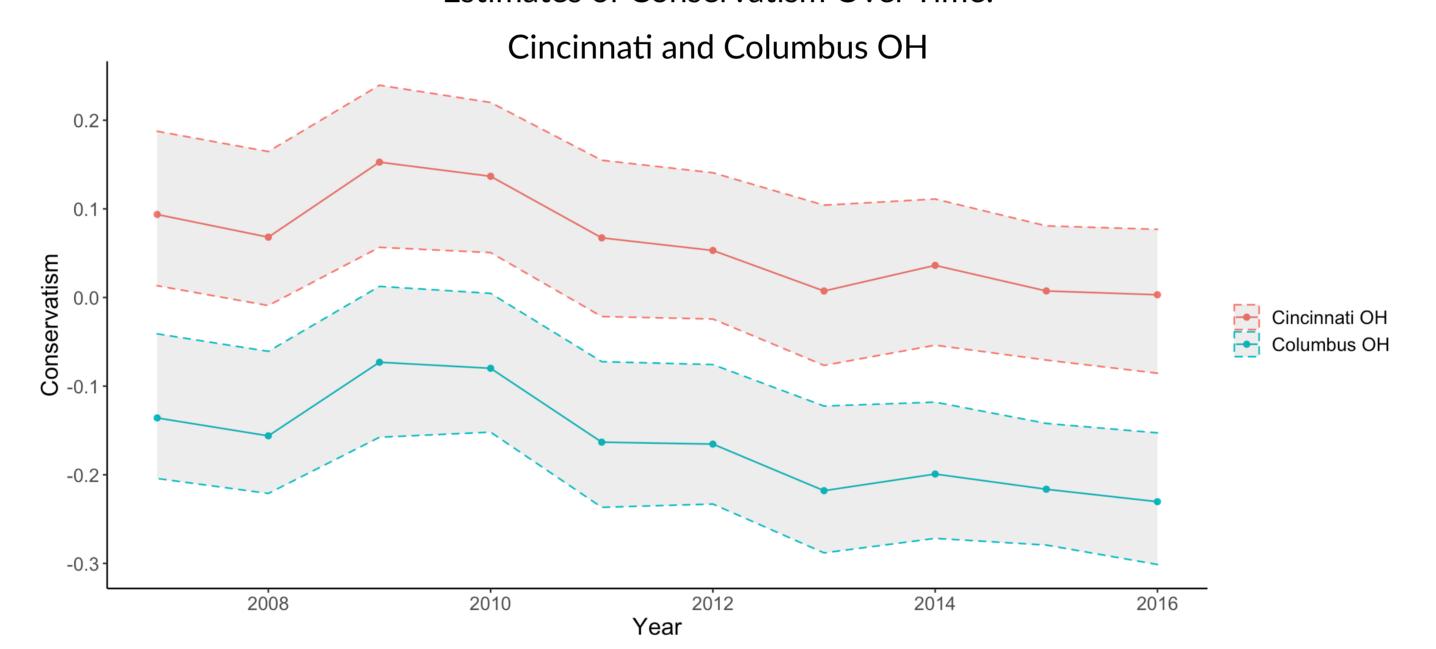
- Over a half a million respondents
- Dynamic Multilevel Model and Post-Stratification (MRT) (Gelman et. al. nd.)

(Standardized)



Estimates of Conservatism Over Time:

race3 = White, Black, Other



Modeling Strategy: Within-Between Random Effects Model

Mundlak (1978), Bell and Jones (2015):

$$\alpha_t = \beta_0 + \beta_1 (x_{jt} - \bar{x}_j) + \beta_2 \bar{x}_j + \beta_3 z_j + (\mu_j + \epsilon_{jt})$$
(

- j = city
- t = year
- y_{it} = Total Expenditures, Total Tax Revenue
- x_{jt} = Level 1: Mean Centered Time-Varying Variables (Ideology)
- \bar{x}_j = Mean of Time-Varying Variables
- z_j = Level 2: Time-Invariant Variables (Between City Effects)
- μ_j = Level 2 error (Aggregated unobserved group-level effect)

gender = Male, Female

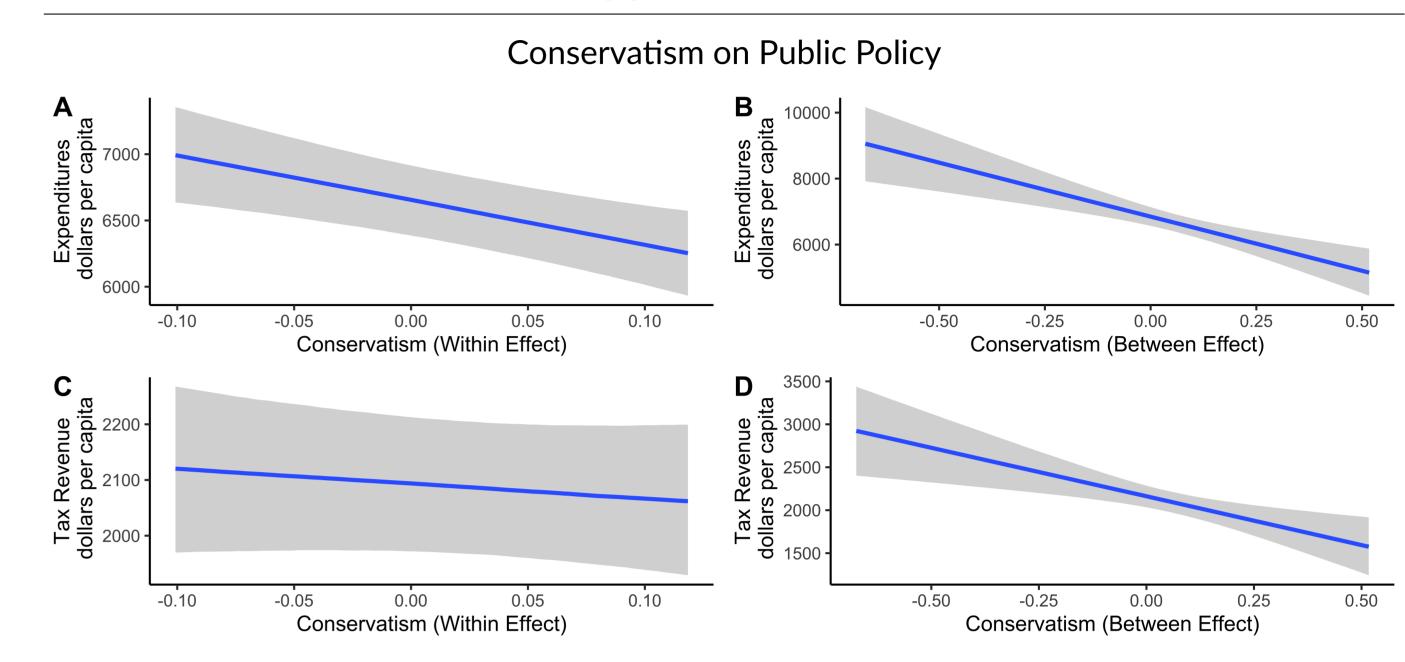
location = cities (via zipcode)

• ϵ_{it} = Level 1 error

Advantages of Within-Between Random Effects Model

- Dynamic and Cross-Sectional variation in single model
- Same results as Two-Way Fixed Effects and Pooled Cross-Sectional models
- Ability to include time-invariant features

Main Results: Support for RQ 1; Mixed for RQ 2



- Results robust to the inclusion of time-variant and time-invariant covariates:
- Median Income
- Population
- Income Inequality
- Consolidated Government
- Results less strong using traditional measure of policy outcomes

Effect Modification: Support for RQ 3

	Expenditures	Taxation
A. Between Unit Effects (RQ 1)		
Intercept	-2660.89	-3470.26*
	[-7587.77, 2205.63]	[-5629.74, -1288.07]
Ave. Conservatism (Cross-sectional)	-3279.37*	-1125.86*
	[-4808.82, -1742.47]	[-1805.18, -423.13]
Consolidated Government	293.89	183.53
	[-416.58, 1023.96]	[-152.88, 514.46]
B. Within Unit Effects (RQ 2)		
Conservatism (Dynamic)	-3293.64*	-254.64
	[-5256.02, -1340.93]	[-970.36, 455.89]
C. Cross-Level Interactions (RQ 3)		
Conservatism*Consolidated Gov.	-1712.52*	-657.24*
	[-2672.73, -745.11]	[-1008.77, -301.05]
	[-2672.73, -745.11]	[-1008.77, -301.05]

Takeaways

- Clear evidence of cross-sectional representation in local government
- Evidence that dynamic responsiveness exist for expenditures
- Dynamic responsiveness for tax revenue is inconclusive
- Suggestive evidence that more concentrated governance fosters responsiveness

References

- [1] Andrew Bell and Kelvyn Jones. Explaining fixed effects: Random effects modeling of time-series cross-sectional and panel data. *Political Science Research and Methods*, 3(1):133–153, 2015.
- [2] Andrew Gelman, Jeffrey Lax, Justin Phillips, Jonah Gabry, and Robert Trangucci. Using multilevel regression and poststratification to estimate dynamic public opinion. *Unpublished*, 2019.
- [3] Adam H Langley. Methodology used to create fiscally standardized cities database. Lincoln Institute of Land Policy., 2013.
- [4] Yair Mundlak. On the pooling of time series and cross section data. Econometrica: Journal of the Econometric Society, pages 69–85, 1978.