

Research Article

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Gubernatorial use of executive orders: unilateral action and policy adoption

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Abstract

Given a smooth compact hypersurface M with boundary $\Sigma = \partial M$, we prove the existence of a sequence M_j of hypersurfaces with the same boundary as M , such that each Steklov eigenvalue $\sigma_k(M_j)$ tends to zero as j tends to infinity. The hypersurfaces M_j are obtained from M by a local perturbation near a point of its boundary. Their volumes and diameters are arbitrarily close to those of M , while the principal curvatures of the boundary remain unchanged.

1. Introduction

Let M be an n -dimensional smooth compact Riemannian manifold with boundary $\Sigma = \partial M$. The Steklov eigenvalue problem on M consists in finding all numbers $\sigma \in \mathbb{R}$ for which there exists a nonzero function $u \in C^\infty(M)$, which solves

$$\begin{cases} \Delta u = 0 & \text{in } M, \\ \partial_\nu u = \sigma u & \text{on } \Sigma. \end{cases}$$

Here, Δ is the Laplacian induced from the Riemannian metric g on M , and ∂_ν is the outward pointing normal derivative along the boundary Σ . The Steklov eigenvalues form an unbounded increasing sequence $0 = \sigma_0 \leq \sigma_1 \leq \sigma_2 \leq \dots \rightarrow \infty$, each of which is repeated according to its multiplicity. Note that if M is connected, then $\sigma_1 > 0$.

Presidential scholars have long emphasised the role of the executive branch in federal policy-making. Presidents develop policies formally through unilateral action, but they also pursue their objectives in the legislative arena. Governors fill an analogous role within their states. They manage the bureaucracy and help set the policy agenda through speeches, calling special sessions or taking unilateral action. I analyse factors that explain gubernatorial use of executive orders, and I consider how these same executive orders influence statute adoption, using lesbian, gay, bisexual and transgender (LGBT) employment protections as an illustrative case. Presidential scholars have long emphasised the role of the executive branch in federal policymaking. Presidents develop policies formally through unilateral action, but they also pursue their objectives in the legislative arena. Governors fill an analogous role within their states. They manage the bureaucracy and help set the policy agenda through speeches, calling special sessions or taking unilateral action. I analyse factors that explain gubernatorial use of executive orders, and I consider how these same executive orders influence statute adoption, using lesbian, gay, bisexual and transgender (LGBT) employment protections as an illustrative case.

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Once data are disseminated, whatever contractual or other obligations are placed on those receiving [Berry and Berry \(1990, 1999\)](#) the data, the data are effectively out of a data providers' control. Data providers must be certain that the data disseminated do not provide a risk of disclosure necessitating a reduction in the detail available, or they are constrained to using a resource intensive auditing regime, and are likely to discover any data misuse only after it has happened. Once data are disseminated, whatever contractual or other obligations are placed on those receiving the data, the data are effectively out of a data providers' control. Data providers must be certain that the data disseminated do not provide a risk of disclosure necessitating a reduction in the detail available, or they are constrained to using a resource intensive auditing regime, and are likely to discover any data misuse only after it has happened.

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2. Gubernatorial and presidential use of executive orders across the various states

Presidents develop policies formally through unilateral action, but they also pursue their objectives in the legislative arena. Governors fill an analogous role within their states. They manage the bureaucracy and help set the policy agenda through speeches, calling special sessions or taking unilateral action. I analyse factors that explain gubernatorial use of executive orders, and I consider how these same executive orders influence statute adoption, using lesbian, gay, bisexual and transgender (LGBT) employment protections as an illustrative case.

2.1. Presidential use of executive orders is largely consistent with expectations and previous literature

The remainder of the findings is largely consistent [Berry et al. \(1998\)](#) with expectations and previous literature. Diffusion plays a positive role on states adopting sexual orientation² protections; yet, it is not statistically significant in explaining the adoption of transgender-inclusive statutes. As anticipated, legislatures are more likely to adopt both forms of legislation in states where the citizens are more liberal.

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¹Governor Kate Brown of Oregon became governor in 2015, making her the first governor in the United States to be openly LGBT while in office.

²The courts and various agencies also create their own form of policy. However, I focus primarily on executive orders and their influence on statute adoption for this article.

using lesbian, gay, bisexual and transgender (LGBT) employment protections as an illustrative case.

3. Results

3.1. Determinants of executive orders

The probability of a state adopting legislation protecting [Boehmke \(2009\)](#) sexual orientation increases by a factor of 1.11 for a one-unit increase in Liberal Citizen Ideology, and the probability increases by a factor of 2.24 for a five-unit increase in citizen ideology. This effect is even more pronounced for transgender protections. A one-unit increase in Liberal Citizen Ideology increases the likelihood of adoption by a factor of 1.20, and the probability increases by a factor of 2.44 for a five-unit increase in citizen ideology. The findings regarding the Evangelical population hint at a similar conclusion.

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Estimation

Using Multilevel Event History Analysis, with the state/year as the unit of analysis [Bolton and Thrower \(2015\)](#), I evaluate the following:

1. The probability that a governor i will issue an executive order protecting LGBT employees in time t , given that no executive order is in place.
They manage the bureaucracy and help set the policy agenda through speeches, calling special sessions or taking unilateral action.
2. The probability that the state legislature i will adopt an LGBT-inclusive employment nondiscrimination statute in time t , given that it has not already done.

Multilevel modelling accounts for these differences and within-state patterns of adoption seen throughout the years². The effect of determinants that lead to successful statute adoption of LGBT protections share common elements, but differ based on the type of protections added – sexual orientation versus gender identity.

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Table 1. Tables which are too long to fit, should be written using the “table*” environment as shown here.

Projectile	Energy	σ_{calc}	σ_{expt}	Energy	σ_{calc}	σ_{expt}
Element 3	990 A	1168	1547±12	780 A	1166	1239±100
Element 4	500 A	961	922±10	900 A	1268	1092±40
Element 3	990 A	1168	1547±12	780 A	1166	1239±100
Element 4 ^a	500 A	961	922±10	900 A	1268	1092±40
Element 3	990 A	1168	1547±12	780 A	1166	1239±100
Element 4	500 A	961	922±10	900 A	1268	1092±40
Element 3	990 A	1168	1547±12	780 A	1166	1239±100
Element 4	500 A	961	922±10	900 A	1268	1092±40

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^aThis is an example of table footnote

Consequently, governors may elect to pursue legislation to adopt more expansive and enduring policies by negotiating with the legislators first. Governors that see legislation as likely to pass in the legislature, or governors with weaker institutional powers to dictate administration policies, are especially likely to take this approach. A one-unit increase in Liberal Citizen Ideology increases the likelihood of adoption by a factor of 1.20, and the probability increases by a factor of 2.44 for a five-unit increase in citizen ideology.

Executive orders become appealing once more if efforts in the legislature fail because of a stalemate or changing partisan dynamics later in the executive’s tenure. This leads to the following hypotheses:

- H3:** Governors are more likely to issue executive orders adding LGBT protections at the start and end of their tenure.
- H4:** Institutionally stronger governors are more likely to issue executive orders adding LGBT protections.

The final hypotheses test the strategic model applied to the state level, which asserts that governors are more likely to issue executive orders when confronting unfavourable political conditions in the legislature.

The final covariates analyse social factors that influence gubernatorial use of executive orders. These results differ across the models. Diffusion is not statistically significant for the sexual orientation model, but reaches conventional statistical significance for the analysis of gender identity protections. This tentatively suggests that

governors are more likely to issue executive orders as more neighbouring states add similar protections. Governors are more likely to issue executive orders to protect sexual orientation when the states are more liberal, and composed of fewer Evangelicals. Both terms reach conventional statistical significance. However, this does not hold when the analysis turns to the determinants of executive orders that protect gender identity. Citizen ideology is not statistically significant and, counter to sexual orientation protections, governors are more likely to issue executive orders when the Evangelical rate increases. These discrepancies may be related to the changing strategies of governors and LGBT advocates in later years, or it may be a reflection of the late adopters that added protections through executive orders, i.e. the remaining governors in states that were still “at risk” of adopting transgender protections were in more socially conservative states. Both models show that governors are more likely to issue protections later into the time frame, and the variance across the states is statistically significant.

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Author biographies. Author biographies would be shown here.

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