

DYNAMISM AND THE FINE PRINT



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Technology and Declining Economic Dynamism Conference



Boston University



How does the rise of post-employment restrictive covenants relate to declining economic dynamism?

Dynamism Facts

- 1. Stagnant Wages
- 2. Declining Job Mobility
- 3. Declining Start-up Rate
- 4. Harder to Find New Ideas



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Post-Employment Restrictive Covenants

- 1. Non-disclosure agreement
- 2. Non-solicitation of clients agreement
- 3. Non-recruitment of co-workers agreement
- 4. Noncompete agreement



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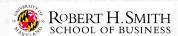
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Answer: For the most part, we don't know





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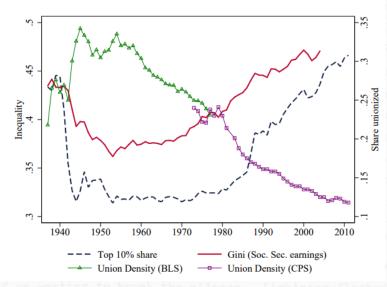




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Figure 1: Union density and inequality measures, 1917-2011



Source: Farber et al. (2018)

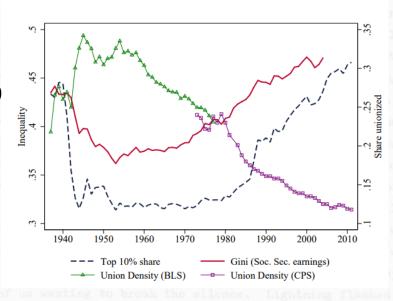


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Likely that use of other provisions increased over time

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Source: Farber et al. (2018)



Two questions

- 1. What do we know about the use of these provisions?
- 2. How do they—or the policies that regulate them— influence wages, mobility, entrepreneurship, innovation?



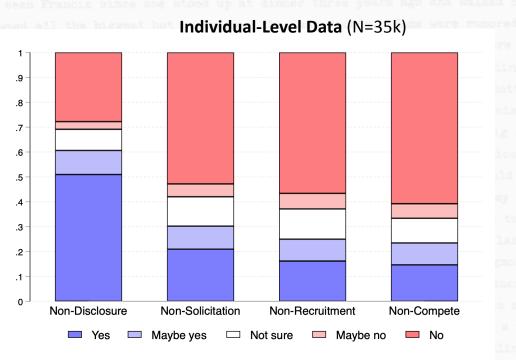
What do we know about the use of these provisions?

- Prior work focuses on noncompetes (Marx 2011, Garmaise 2011, Colvin and Shierholz 2019, Starr et al. 2020, Lavetti et al. 2020, Johnson and Lipsitz 2020)
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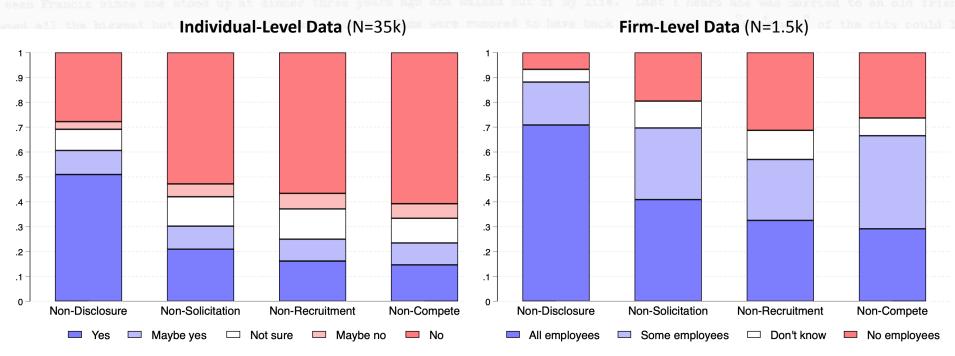
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Source: Balasubramanian, Starr, Yamaguchi 2020 "The Co-Adoption of Restrictive Covenants"



Post-Employment Restrictive Covenants Come as a Bundle

		Table 1. Distribution	n of Contract Bundles
		Individual-Level Data	
		(1)	
	Combination of contracts: (NDA, NS, NP, NC)	1(Adopt)=Yes or Maybe Yes	
	(0,0,0,0)	41.31	_
	(1,0,0,0)	24.47	_
	(1,1,0,1)	2.25	
y me?	(1,1,1,0)	6.28	_
	(1,1,1,1)	17.19	
Lre	Other combinations	8.50	

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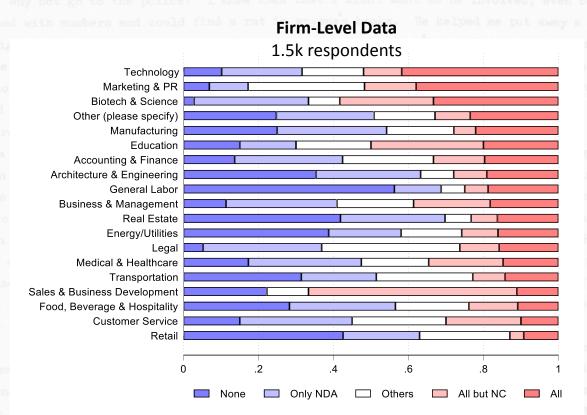
Post-Employment Restrictive Covenants Come as a Bundle

		Table 1. Distribution of	of Contract Bundles	
		Individual-Level Data	Firm-Le	vel Data
		(1)	(2)	(3)
	Combination of contracts: (NDA, NS, NP, NC)	1(Adopt)=Yes or Maybe Yes	1(Adopt)=All employees	1(Adopt)=All or some employees
	(0,0,0,0)	41.31	22.00	5.20
	(1,0,0,0)	24.47	25.90	11.00
	(1,1,0,1)	2.25	5.20	10.10
y me?	(1,1,1,0)	6.28	11.60	7.90
	(1,1,1,1)	17.19	22.90	55.20
I re	Other combinations	8.50	12.40	10.60

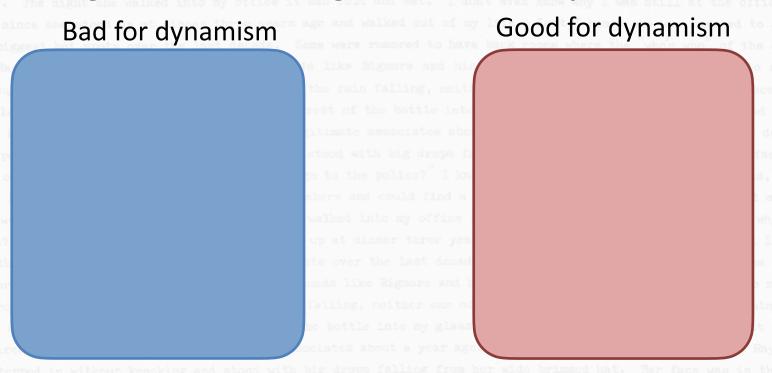
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More Common in High-Tech Industries

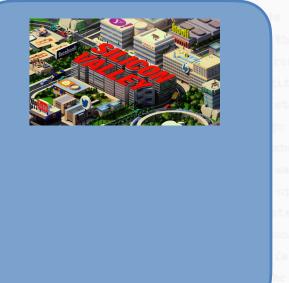








Bad for dynamism





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- 2. Distinction between noncompete *Enforceability* and *Use*



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Enforceability: What happens when a state changes its policies?



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DIFFERENT, though related, parameters

Harder to estimate causal effect of use



Challenges to Freedom of Contract

Details of the noncompete contracting process (Starr et al. 2020 JLE):

- < 10% Negotiate</p>
- 83% read & sign when asked
- 86% promised nothing in exchange
- 30% sign after accepting job, without change in responsibilities.
- CNC associated with lower earnings where more enforceable



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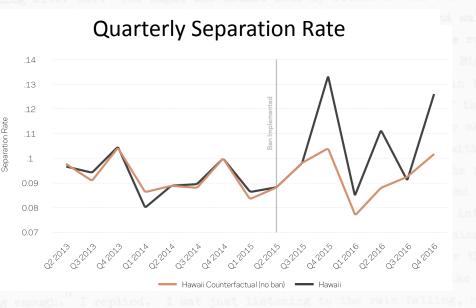
Mixed results on earnings re: noncompete use

- Physicians (Lavetti et al. 2019)
- Executives (Kini et al. 2019, Garmaise 2011)

Selection concerns unresolved.



Hawaii's 2015 noncompete/nonsolicit ban for tech workers raised mobility and earnings



Source: Balasubramanian, Chang, Sakakibara, Sivadasan, and Starr, 2020 JHR "Locked In? Noncompete Enforceability and the Careers of Tech Workers." See also Lipsitz and Starr (2020), Starr (2019), Johnson et al. (2020)



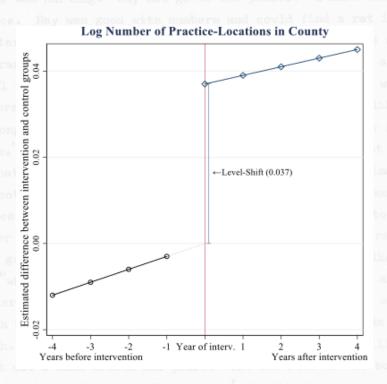
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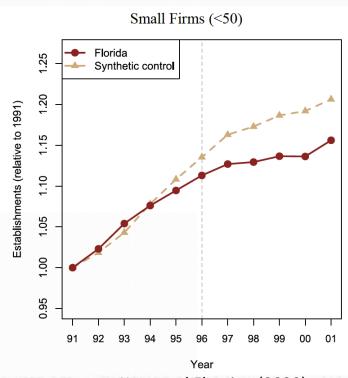


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Banning Noncompetes Raises New Firm Entry





Balasubramanian, Sakakibara, Starr, Ramanathan (2020)

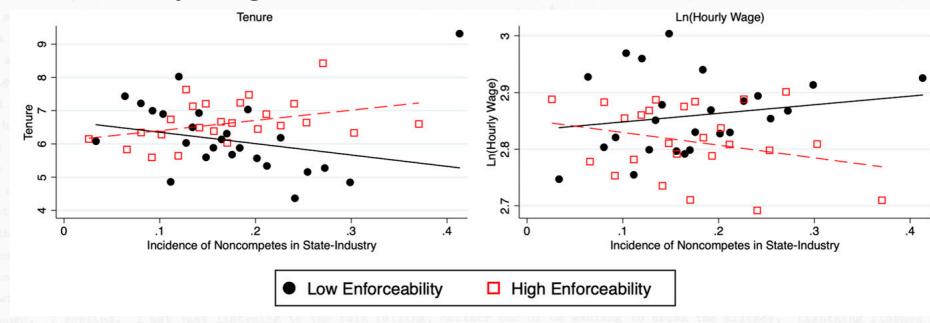
Kang and Fleming (2020).



Negative Spillovers: Where Noncompete Use/Enforceability is High, Mobility/Wages are lower even for those who are bound



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Starr, Frake, and Agarwal (2019) OrgSci: "Mobility Constraint Externalities".

See also, Johnson, Lavetti, and Lipsitz (2019): Negative wage effects of enforceability spill across state borders.



Mixed Evidence on Investment and Innovation

Noncompete enforceability hurts innovation

- Silicon Valley (Hyde 2003, Gilson 1999)
- Samila & Sorenson (2011), Garmaise (2009)



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Noncompete use and enforceability boosts firm investment

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Table 10: Investment Rate by Ex-Ante Industry Competition

The dependent variable is net investment scaled by one year-lagged assets (I/A). The sample is divided into three groups: industries in High, Medium, and Low product market competition. "Knowledge Firm" (KF) is an indicator for firms that employ an above-median fraction of knowledge workers. In Panel A, the regressions use the full sample of matched firms. In Panel B the sample of firms is limited to firms with at least 40% of employees in the main state. Standard errors in parentheses are clustered at the state level. Industry is 4-digit NAICS.

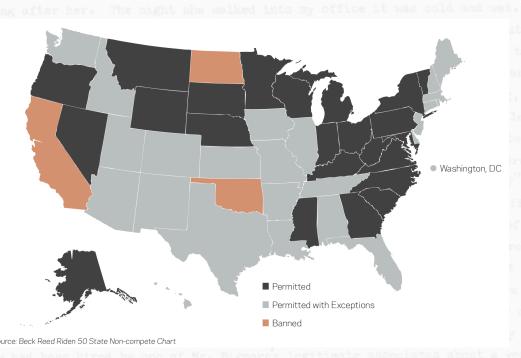
Panel A: All firms			
	(1)	(2)	(3)
	I/A	I/A	I/A
	High Competition	Medium Competition	Low Competition
Treated*Post	0.0179***	0.00222	-0.00352
Treated Post			
	(0.00614)	(0.00775)	(0.00493)
Treated*Post*Knowledge Firm	-0.00150	0.00739	0.0176**
	(0.0132)	(0.00981)	(0.00705)
KF-Industry-Year FE	Y	Y	Y
Company FE	Y	Y	Y
Observations	264	1,324	3,190
R-squared	0.858	0.843	0.717

Positive investment effects only in highly competitive markets

Jeffers 2019 "The Impact of Restricting Labor Mobility on Corporate Investment and Entrepreneurship"



Unenforceable Noncompetes are Common



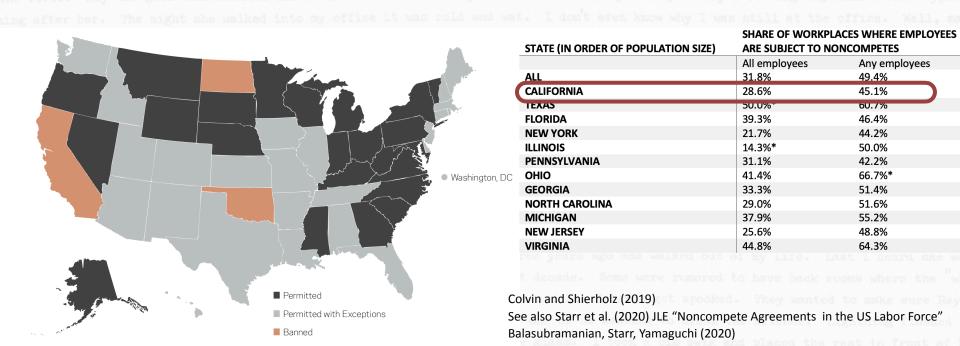
o have back rooms where the "who's who of the city could his friends got spooked. They wanted to make sure neither one of us wanting to break the silence. Lightness into my glass. I took a big swig and placed the rest shout a year ago. Everything seemed hunky dory until tops falling from her wide brimmed hat. Her face was in I know then that I didn't want to be involved, even before

it was cold and wet. I don't even know why I was st cars ago and walked out of my life. Last I heard she ade. Some were rumored to have back rooms where the his friends got spooked. They wanted to make sure I

Bunky dory until Ray found an Rer face was in the shadows,

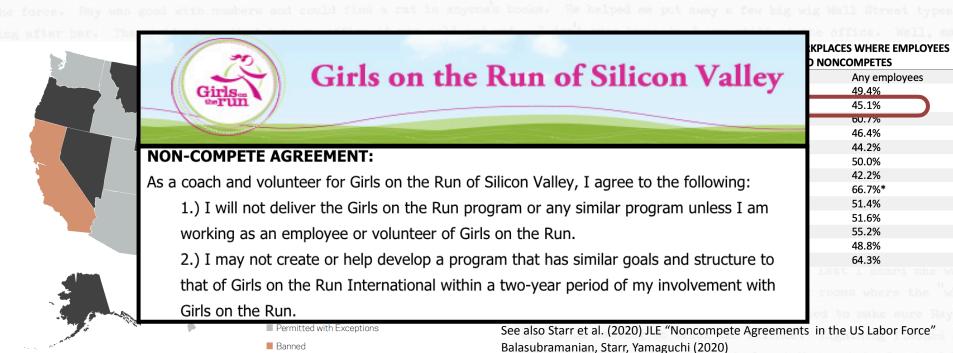


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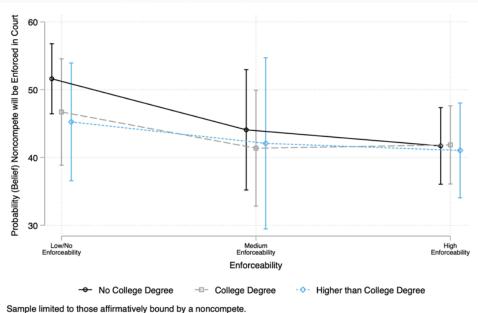
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Source: Beck Reed Riden 50 State Non-compete Char



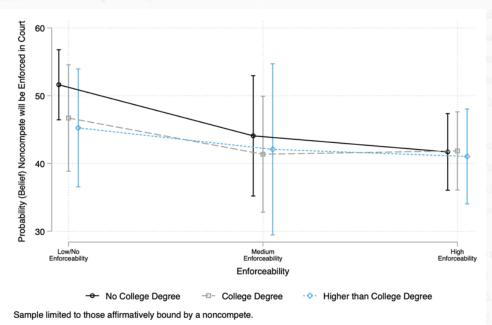
Workers Unaware of Law Assume Enforceable



Prescott and Starr (2020): "Subjective Beliefs about Contract Enforceability"



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(Unenforceable) Noncompetes Exert Chilling Effect on Mobility

Table 5: Tur	ning Down J	lob Offers	
	(1)	(2)	(3)
Sample	All	States That Do Not Enforce Noncompetes	States Tha Enforce Noncompet
Panel A: Was your noncompete a factor in you	ır choice to tur	rn down your offer from	n a competitor?
Yes	41.4%	37.5%	42.3%
Panel C: How important is your noncompete i	n determining	if you leave for a comp	petitor?
Not at all Important	9.0%	6.2%	9.5%
•	9.0% 6.0%	6.2% 7.4%	
Very Unimportant			9.5%
Very Unimportant Somewhat Unimportant	6.0%	7.4%	9.5% 5.8%
Very Unimportant Somewhat Unimportant Neither Important nor Unimportant	6.0% 6.5%	7.4% 5.3%	9.5% 5.8% 6.6%
Very Unimportant Somewhat Unimportant Neither Important nor Unimportant Somewhat Important	6.0% 6.5% 23.3%	7.4% 5.3% 26.4%	9.5% 5.8% 6.6% 22.8%
Not at all Important Very Unimportant Somewhat Unimportant Neither Important nor Unimportant Somewhat Important Very Important Extremely Important	6.0% 6.5% 23.3% 21.3%	7.4% 5.3% 26.4% 19.1%	9.5% 5.8% 6.6% 22.8% 21.6%



Concluding Remarks

- Growing evidence that post-employment restrictive covenants likely contributed to declining economic dynamism
- Some policies have proven effective in combatting declining dynamism
 - · Not clear what to do re: unenforceable contracts and chilling effects
- Many opportunities for future work
 - Gather historical data: link adoption patterns to dynamism directly
 - Resolve selection vs. treatment concerns
 - Address innovation/investment discrepancies
 - Broaden beyond noncompetes
 - Many more ...