## WORKPLACE BREASTFEEDING **BENEFITS AND THE GENDER** WAGE GAP

SIYING LIU

AMERICAN ECONOMIC ASSOCIATION ANNUAL MEETING **JANUARY 5, 2020** 





## AGENDA

- Background
- Methods
- Main Results
- Channels
- Discussion

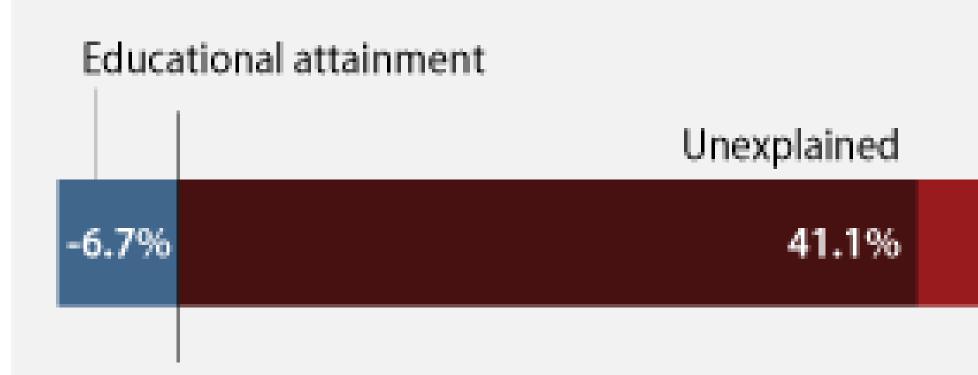




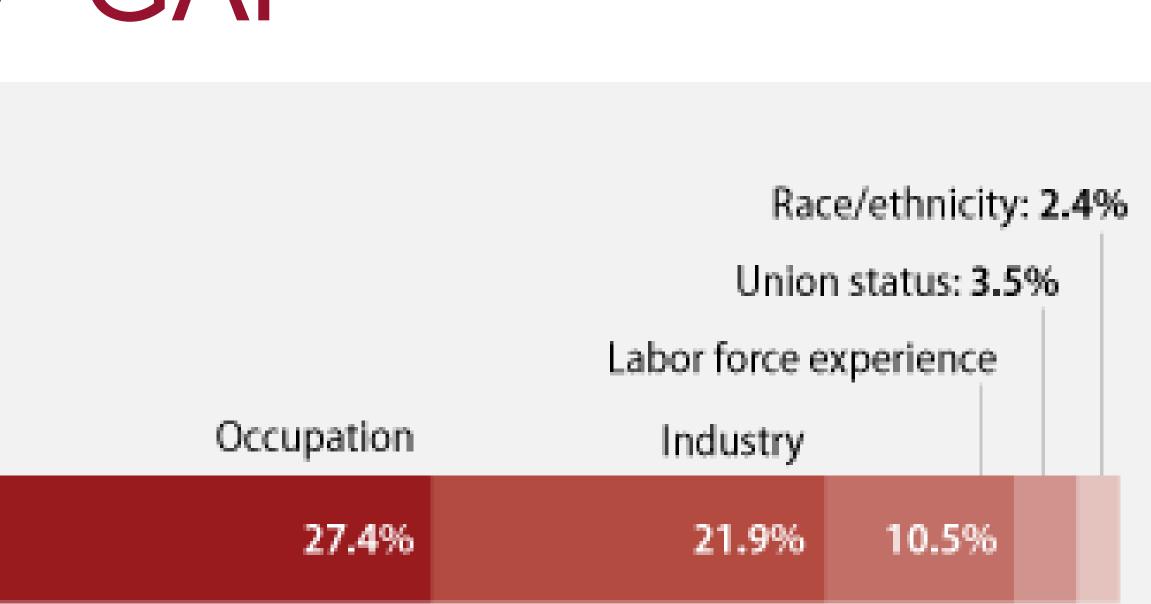
## THE "UNEXPLAINED" GAP



### Breakdown of the gender wage gap



Source: Francine Blau and Lawrence Kahn, "The Gender Pay Gap: Have Women Gone as Far as They Can?", Academy of Management Perspectives, February 2007, pp. 7–23.







# QUESTION

- market outcomes of female employees?
- Related literature
  - Effects of mandated benefits on labor market outcome (Summers, 1989)
  - Schlotter, 2015; Hardoy and Schone, 2015)
  - Rossin, 2011; Blau and Kahn, 2013)

### What is the impact of mandated breastfeeding benefits at the workplace on the labor

Factors affecting the employment and wages of women with young children (Blau and Robins, 1988; Connelly, 1992; Acemoglu et al., 2004; Fernandez et al., 2004; Blau and Currie, 2006; Baker et al., 2008; Lefebvre and Merrigan, 2008; Cascio, 2009; Cortes and Pan, 2013; Black et al., 2014; Compton and Pollak, 2014; Bauernschuster and

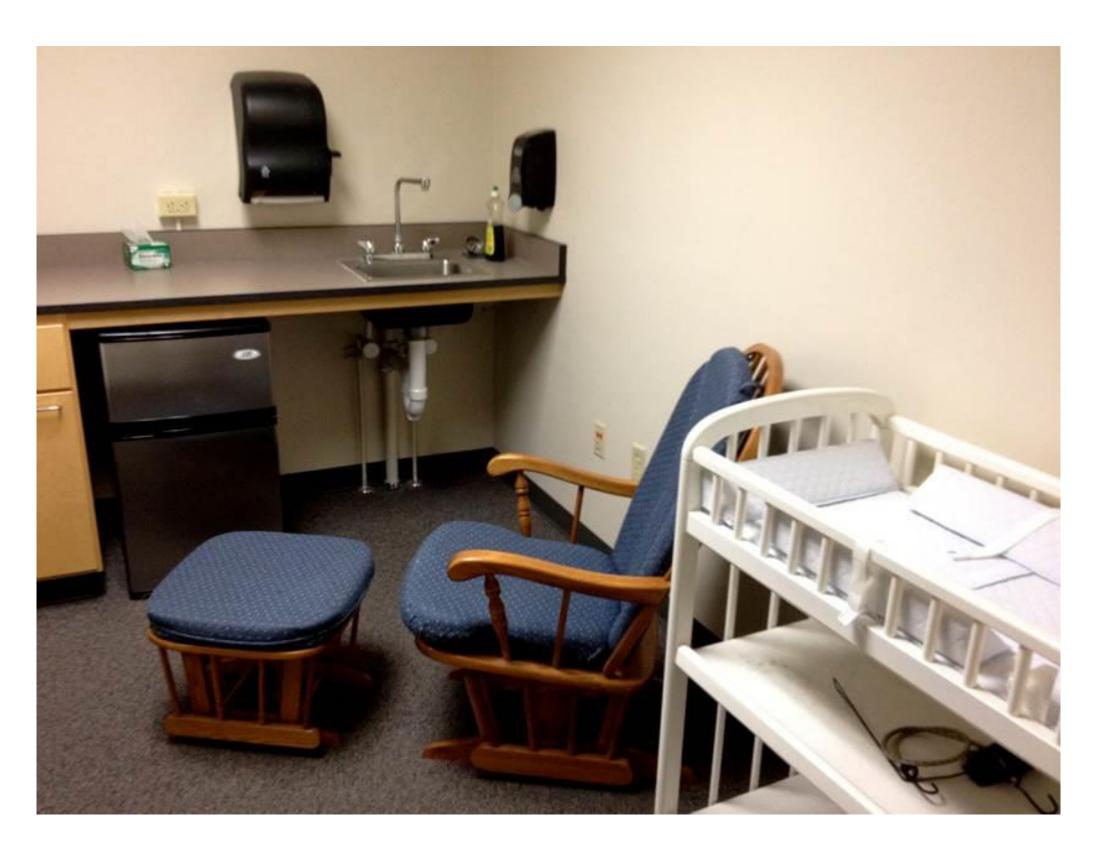
Causal effects of labor market policies exploiting quasi-experimental legal changes (Gruber, 1994; Angrist and Evans, 1998; Klerman, 1999; Levine et al., 1999; Waldfogel, 1999; Bailey, 2006; Baker and Milligan, 2008;





# LAWS ON BREASTFEEDING

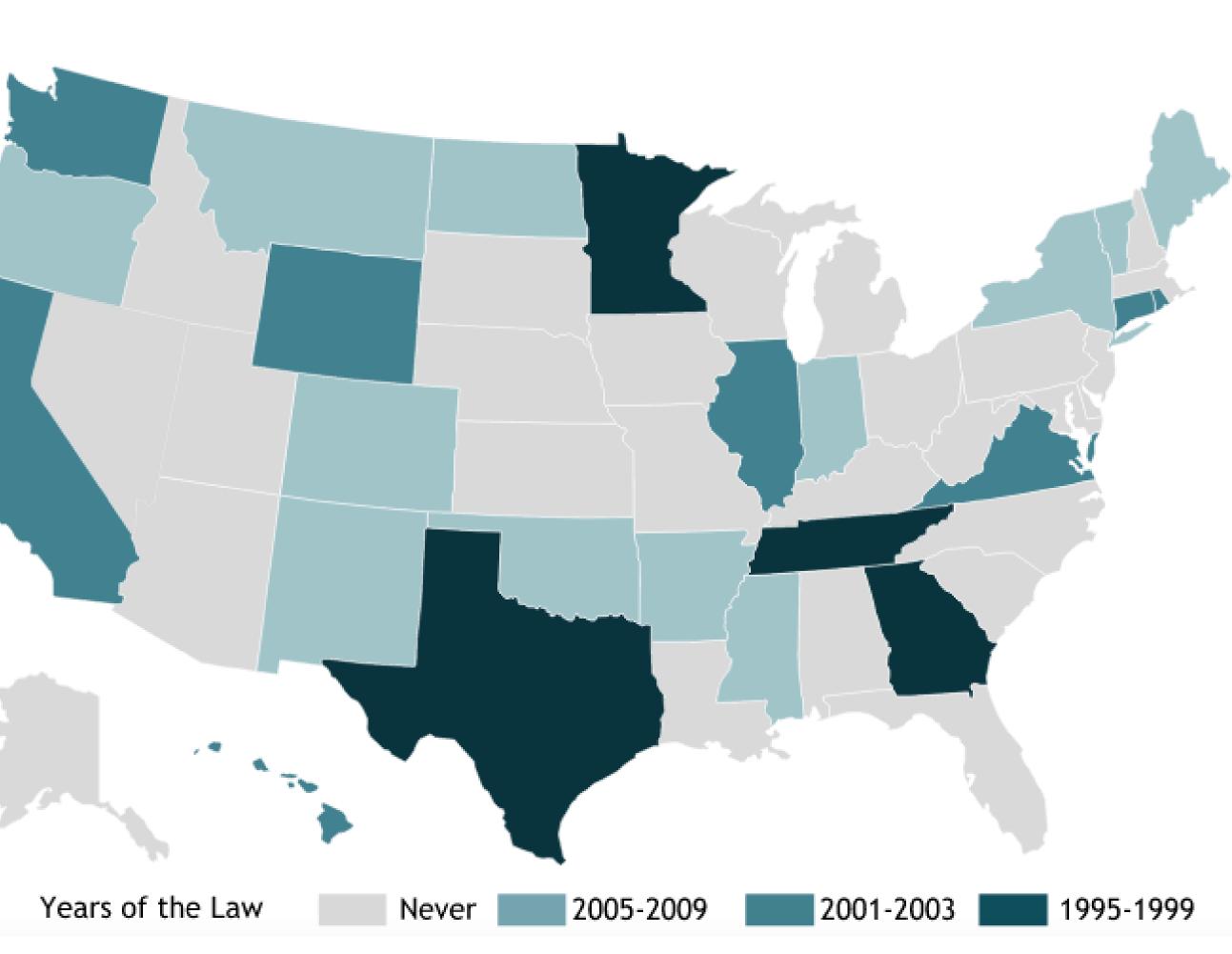
- Discrimination towards breastfeeding is not considered discrimination against gender, pregnancy, or disability
- Affordable Care Act's Nursing Mothers Amendment in 2010
- Only state-level mandates before 2010
  - 24 states and the D.C. mandated the provision in different years during the 1990s-2000s





# STATE MANDATES

- Common features
- State-specific features
  - Longer period (5 states)
  - Breastfeeding & pumping (4 states)
  - No discrimination (9 states)
  - Retaliation protection (5 states)
  - Encouragement only (5 states)
- Plausibly exogenous variation in the passage and timing







# METHODS





## METHODS DATA

- Current Population Survey, 1990-2010
  - Labor market outcomes in the previous week
    - week), hourly wage
- DDD specification
  - Treatment group: mothers of infant children
  - Comparison group: male workers aged 25-44

In the labor force, being employed, hours work per day, part-time (<35 hours per</p>

Alternative control groups: males with infant children, females without children, etc.







#### METHODS

# A QUASI-EXPERIMENT

- benefits, relative to males
- (Altonji et al, 2005)
- Controlling for the culture towards breastfeeding: "Any Place", "Indecency Exemption" and "Jury Exemption"
- Using the event-study frameworks with leads and lags to test for pre-trends

Compare the change of the outcome variables between mothers of infant children who have access to the benefits and mothers who do not have access to the

Controlling for the omitted variables by adding the year fixed effects, state fixed effects, state-specific time trends, and/or census-region-by-year fixed effects, etc.



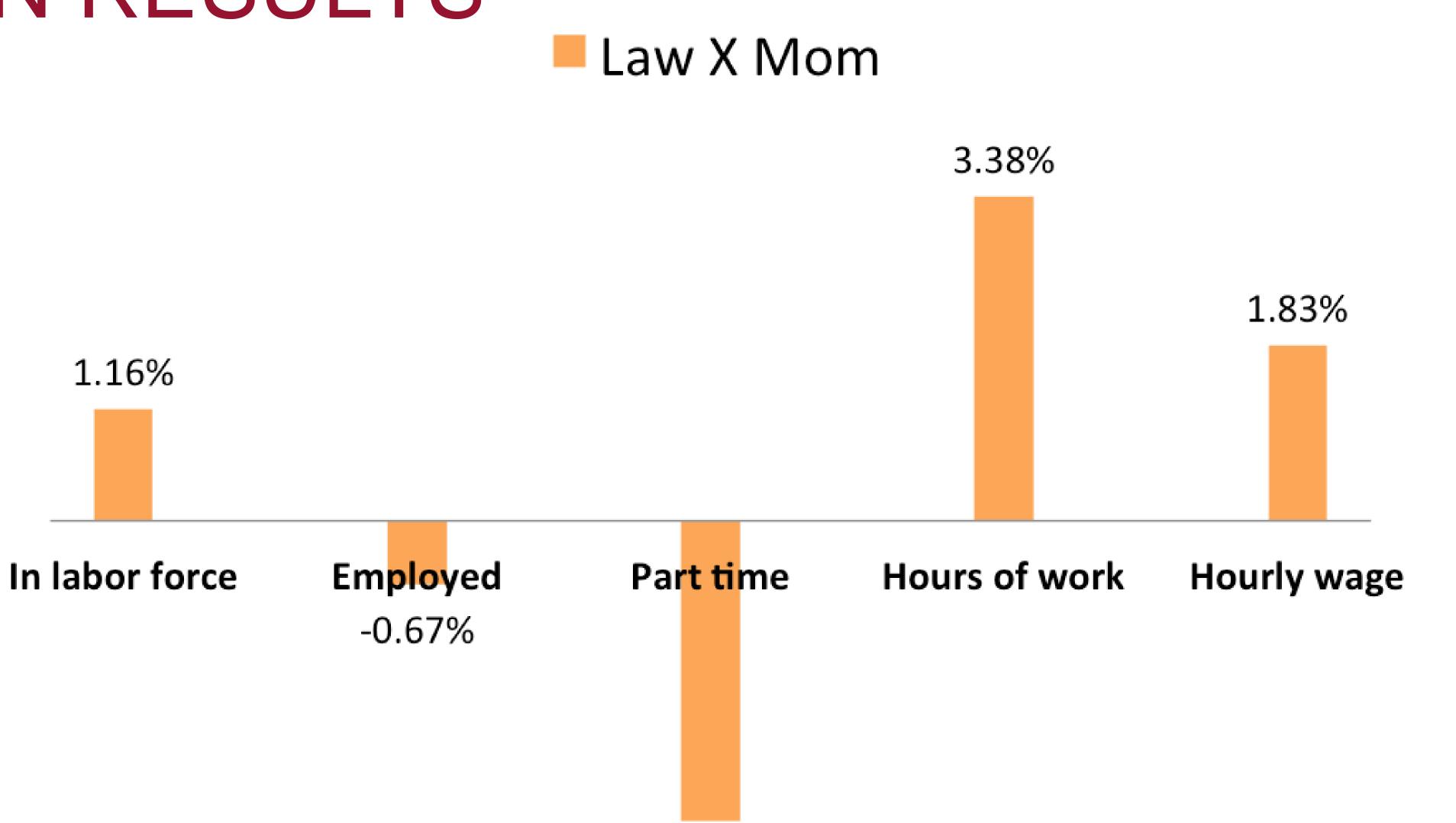








# MAIN RESULTS



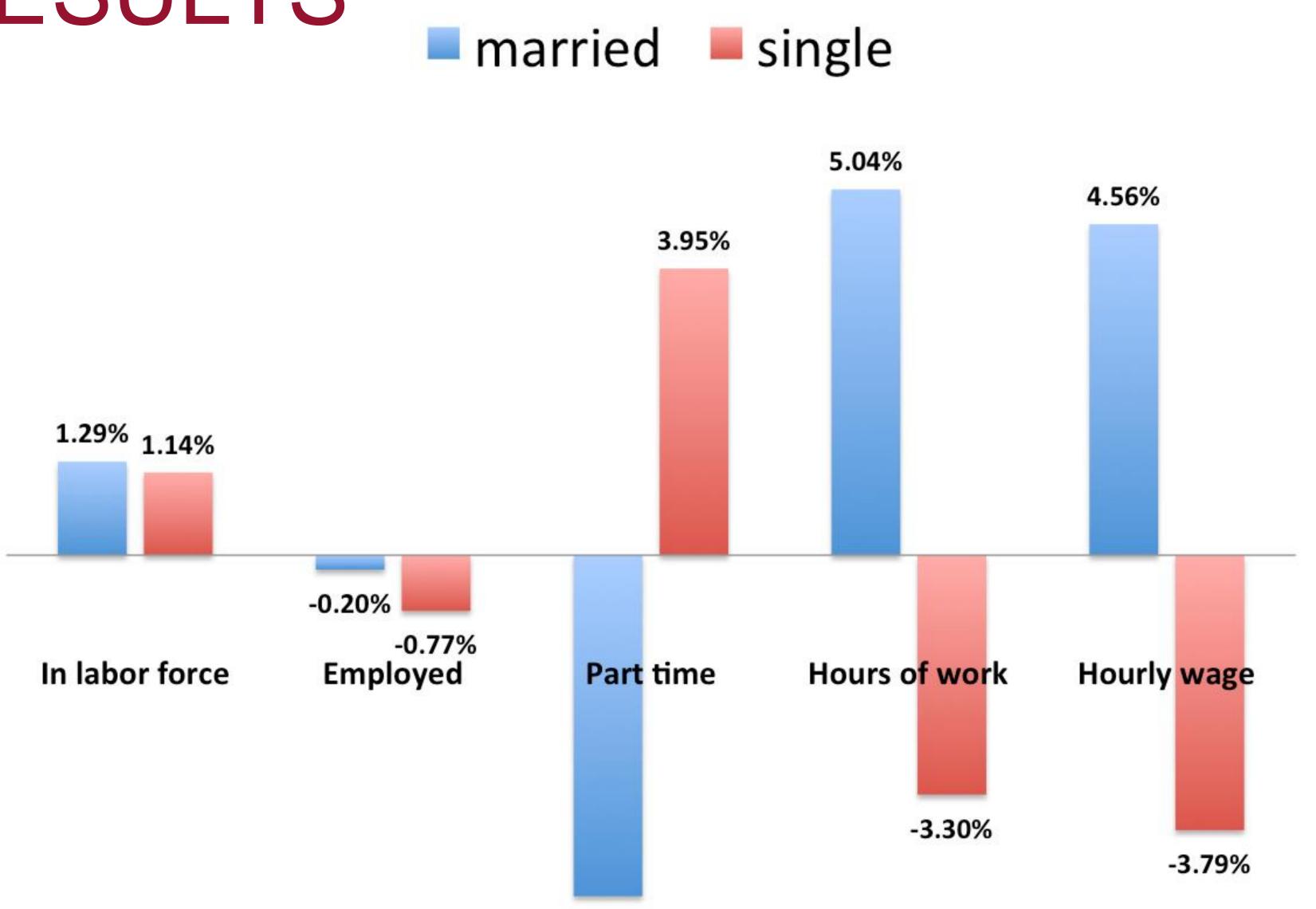




-3.13%



# MAIN RESULTS

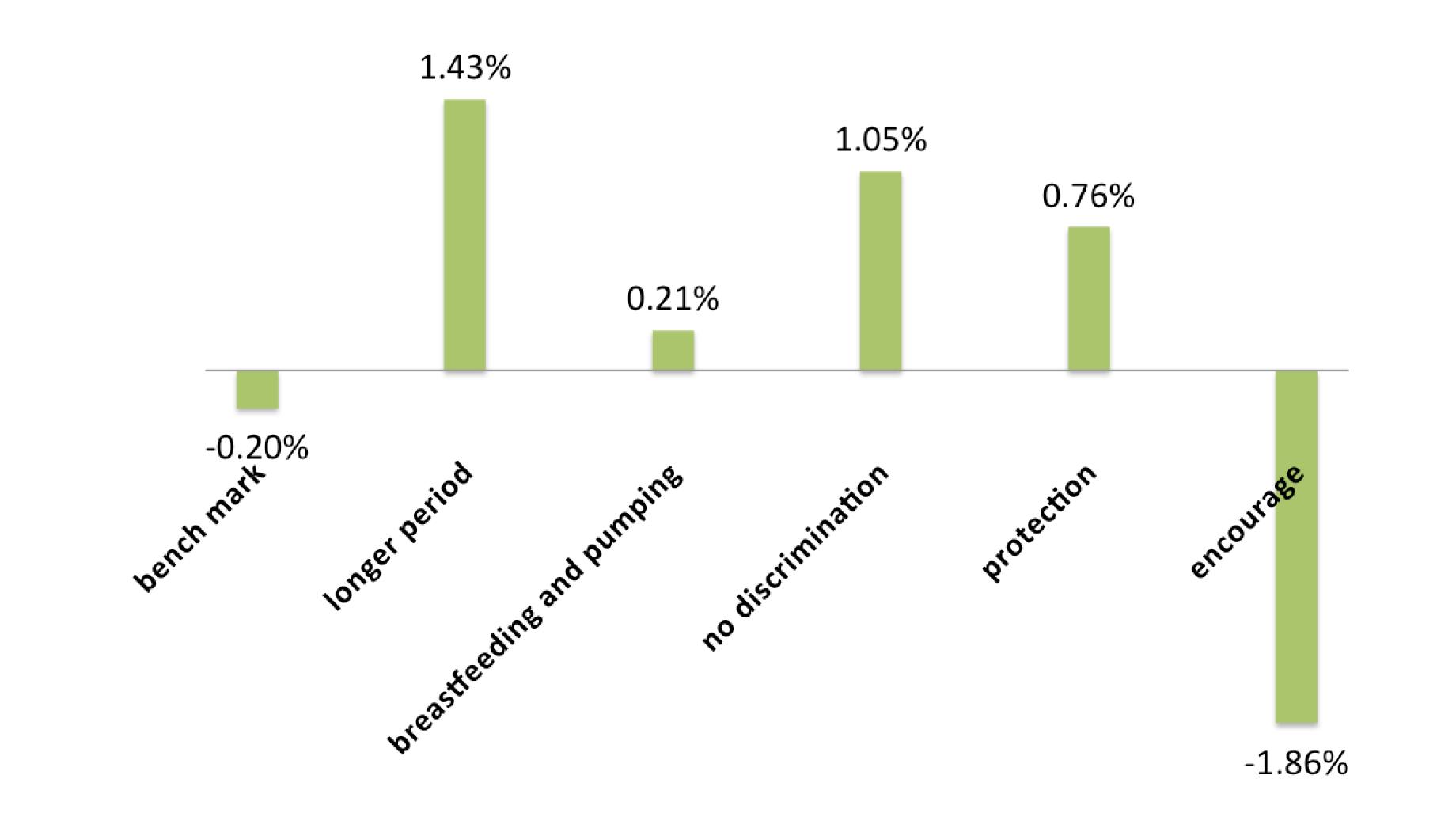








## STRONG VS. WEAK MANDATES employed, if in labor force

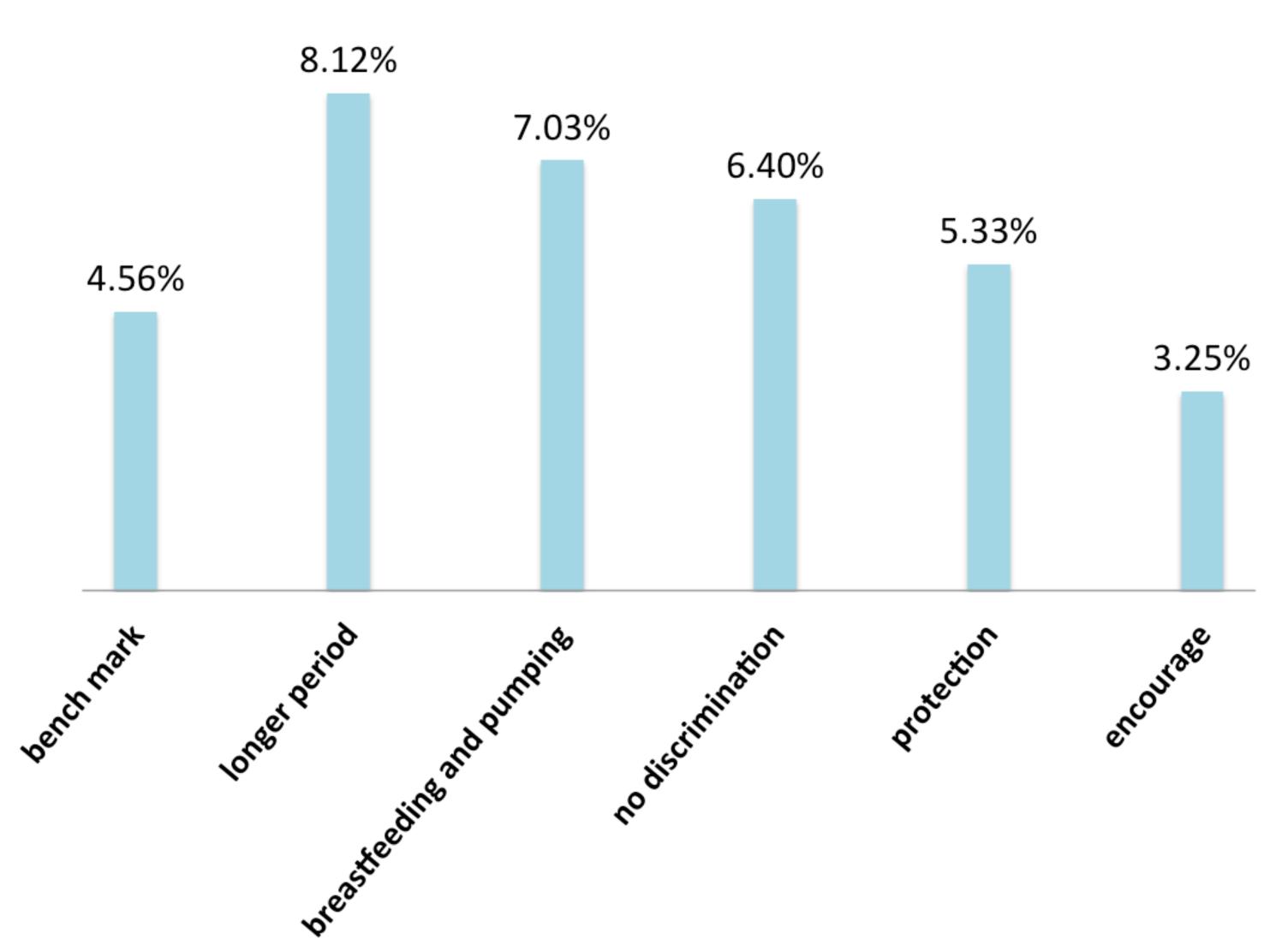








# STRONG VS. WEAK MANDATES



log real hourly wage last year





# CHANNELS









# TEMPORAL FLEXIBILITY

\* "Less Temporal flexibility" of occupations is defined as the average of the following five indices from O\*Net (Goldin, 2014)



Contact with others

Establishing and maintaining interpersonal relationships

Structured versus unstructured work

### Freedom to make decisions

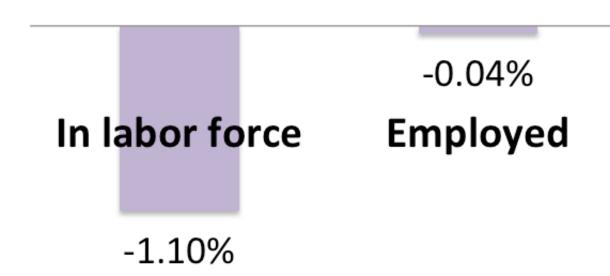








# TEMPORAL FLEXIBILITY









-1.52%



# DISCUSSION







# CONCLUSIONS

- Firms' demand for the mothers of infant children increase due to stronger job attachment
- The impacts are stronger if the jobs have less temporal flexibility, characterized by time pressure, contact with others, establishing and maintaining interpersonal relationships, etc.
- The workplace breastfeeding benefits reduce gender inequality but increase inequality within young mothers.
- Imposing further requirements such as allowing longer period of benefits and prohibiting discrimination and retaliation may reduce the unintended consequences.







# QUESTIONS?

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