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Centro de Estudios
Distributivos, Laborales y Sociales
Universidad Nacional de La Plata

Comment on
*The effects of tax incentives for
small firms on employment levels*

Guillermo Cruces

CEDLAS – Centro de Estudios Distributivos, Laborales y
Sociales, Universidad Nacional de La Plata & CONICET

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The paper



Overview

- This paper analyzes the effect of a tax simplification/reduction program in Brazil.
- Study the effect of tax incentives for small firms on *their own* employment levels.
- Exploit the discontinuity in firm revenue that defines eligibility to the program.
- Distinguishes the effect on firm size and on firm survival.



The approach

The approach

- The paper analyzes non experimental observational admin data.
- The identification strategy relies on economic theory:
 - To define the parameters and effects of interest.
 - To indicate estimation alternatives.
 - To reveal potential sources of bias.
- No need to be apologetic! These *are* conventional methods:
 - Obs. data most often than not has selection issues.
 - RCTs not always feasible, +scale up/equilibrium...

The data

The data

- Other papers have analyzed some aspects of SIMPLES – the data source is one of the advantages here.
- Paper describes the sources+program, not the dataset. More details needed:
 - Descriptive statistics of outcomes-controls.
 - Panel structure: rotating one year panels? Can link 1997 to 1999?
 - Attrition vs mortality – this is a key aspect of the model/id strategy.
 - Average employment levels in the sample: from 27 to 37 in three years?

The experiment

The experiment

- Need a bit more on the institutional setting – the authors clearly know it quite well.
- Stated, intended and unintended effects:
 - Boost (formal) employment?
 - Boost formality – registration
 - Why employment? Profits?
- More on possibility of revenue manipulation-anticipation of tax change. Promised in intro...
- Inflation pushes firms above the threshold.
- “Opting” for the program – the threshold might be exogenous, but participation is not. “Non-compliers”? Anticipate higher future revenue...

The model

The model

- The simple model could perhaps be streamlined. Careful with notation.
- Two tax levels: T^s , T^{ns} – what about $T=0$? Tax evasion – manipulation – audit...
- Important “selection” mechanism: effect on employment or on *registered* employment?
- Selection into the data sample.
- Galiani-Weinschelbaum (2007, CEDLAS DP 47):

$$\begin{aligned}\Pi_f(a) &= Pf(a, l) - w_f l(1+t) - \tau \\ \Pi_i(a) &= (Pf(a, l) - w_i l)(1-q)\end{aligned}$$

The model

- The option is not only manipulating revenue to be above-below the SIMPLES threshold – it is also possible to manipulate *declared* revenue.
- No cheating? Non-registered workers in “formal” firms need to be paid from non declared funds.
- Modeling firms that have both formal and informal workers is not an easy task, but having a third $T=0$ option might help.
- Perhaps connect a bit more with discussion- results in Fajnzylber (**P.!**) et al. and others.
- Firm size impact and aggregate productivity.

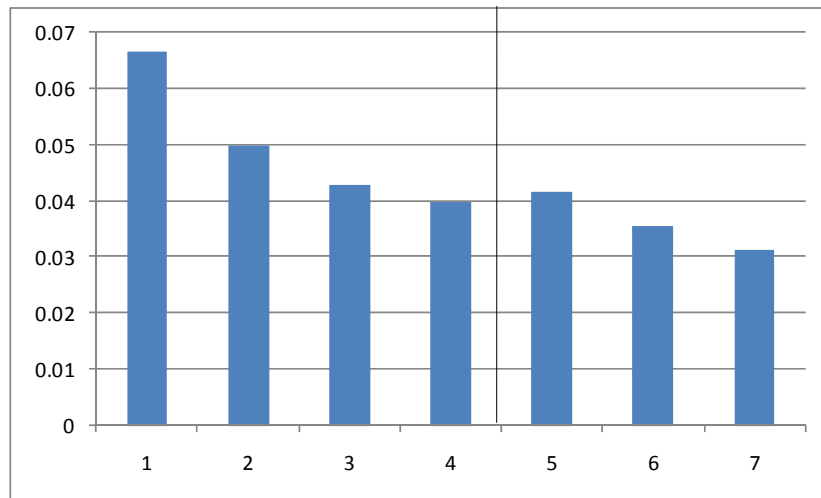


Results and estimation



Results and estimation

- Bandwidth – see yesterday. RDD – see today.
- Employment level – employment/revenue?
- Better description of estimated regression and covariates – not just equation from theory.
- Main dep. variable: change in number of employees over one year...
- What about mortality-attrition? How many didn't make it? Simple descriptive statistics...
- But need much more discussion of Tables 4 and 5 - results on survival and efficiency.
- Survival as an outcome?



Related literature

- Connect to LAC applied literature on payroll tax reforms: Gruber, Kugler-Kugler, Cruces-Galiani-Kidyba.
- Other externalities of formality-registration: access to credit, etc.



Sum up

- The paper is very open about selection problems.
- Could discuss more the threats to the identification strategy:
 - Choosing informality-under declaration of revenue
 - Manipulation of forcing variable
- Discuss why not – but also what if: size and direction of potential bias.