

Table 1: Relationship between PTER and Spouse Labor Force Participation

## 1 State Panel Exercise

I propose we follow Valletta et al. (2020) and estimate a state-level panel.

**Correlations.** First, let’s correlate married women’s labor force participation with married men’s PTER using the state panel (like Figure 2 of Valletta et al. (2020)). The concern I have here is that PTER will rise when labor markets are bad, therefore depressing women’s LFP. That will necessitate the regression approach where we control for aggregate economic conditions via a time fixed effect.

**Regressions.** In particular, let’s estimate an equation of the form (like equation 1 from Valletta et al. (2020)):

$$WFLP_{st} = \alpha + f(PTER_{st})\beta + X_{st}\gamma + \phi_s + \delta_t + \epsilon_{st}$$

where  $WFLP_{st}$  is married women’s labor force participation in state  $s$  in year  $t$ ,  $PTER_{st}$  is rate of husbands working part-time for economic reasons,  $X_{st}$  is a vector of time-varying state-level controls (e.g., industry shares, labor cost, and demographics), and  $\phi_s$  and  $\delta_t$  are state and year fixed effects, respectively.  $\epsilon_{st}$  is an idiosyncratic error term.

## 2 CPS Microdata Estimation

For individual  $j$  working in industry  $i$ , living in state  $s$  at month-year  $t$ , we regress:

$$Spouse\ starts\ working_{jist} = \phi_s + \delta_t + \beta Became\ PTER_{jist} + \gamma_1 X_{st} + \gamma_2 X_{jt} + \epsilon_{jist}$$

where  $Spouse\ starts\ working_{jist}$  is a dummy for whether  $j$ ’s spouse entered the labor force between  $t$  and  $t - 1$ ;  $Became\ PTER_{jist}$  is a dummy for whether  $j$  became PTER between  $t - 1$  and  $t$ ;  $X_{st}$  is a vector of time-varying state-specific controls such as the state’s unemployment rate; and  $X_j$  are individual-level controls such as  $j$ ’s race and education. The sample is restricted to married men who are employed in both  $t$  and  $t - 1$  and whose spouse was not in the labor force in  $t - 1$ .

Consider a Bartik instrumental variable of the form

$$\begin{aligned} \widehat{PTER}_{st} &= \sum_i \frac{E_{is,1977}}{E_{s,1977}} \times PTER_{i,-s,t} \\ \widehat{PTER}_{it} &= \sum_{s' \neq s} \frac{E_{is',1977}}{E_{i,1977}} \times PTER_{i,-s',t} \\ \widehat{IntoPTER}_{ist}^{males} &= IntoPTER_{i,-s,t}^{males} \end{aligned}$$

where  $\frac{E_{is,1977}}{E_{s,1977}}$  is the fraction of employment in industry  $i$  for state  $s$  measured in the 1977 CPS surveys, and  $PTER_{ist}$  is the fraction of workers in industry  $i$ , state  $s$ , in year-month  $t$  who are working part-time for economic reasons.

## References

Valletta, R. G., L. Bengali, and C. Van der List (2020). Cyclical and market determinants of involuntary part-time employment. *Journal of Labor Economics* 38(1), 67–93.