

Discussion of
"Threatening to Offshore in a Search Model of the
Labor Market"
by D.M. Arseneau and S. Leduc

Juuso Vanhala

Bank of Finland

18.10.2012

Overview of paper: Threat of offshoring and wages

- Labor search model of offshoring
- Evaluate
 - the effect of the *threat* of offshoring on global *wages* and labor market allocations
 - the effect of the *threat* on the responsiveness of *wages* to shocks
- Short run and long run analysis
- Contribution: analysis of *threat* on wages
- Literature: Baldwin (2006), Blinder (2006), Feenstra...
Mitra & Ranjan (2010), Felbermayr et al. (2010)...

Overview of paper: The model

- Two-country labor search model (Mitra & Ranjan 2010, Felbermayr et al. 2010, Fahr & Vanhala 2010)
 - Multinational firm in home country: operates domestic and foreign plants, can shift production
 - Foreign firms produce only locally (domestically)
- Labor market frictions and bargaining - threat of offshoring matters for wages and allocations
- Model innovations
 - entry cost (Fujita & Ramey 2007, Hornstein et al. 2007)
 - sequential matching problem (Lagos & Wright 2005)
 - (endogenous participation)
- Mechanism
 - positive value of unfilled vacancy
 - *firms outside option* altered by possibility to offshore
 - both firm and worker acknowledge this in wage bargaining

Overview of paper: Results

- Threat of offshoring generates downward pressure on wages in the source country (lowers wages by 7%)
- Responses of wages and unemployment to transitory shocks are significantly dampened by threat of offshoring
- These effects occur mainly in the short run, muted in the long run when firm entry and capital stock are allowed to adjust freely

- 1 Modeling strategy
- 2 Connecting the domestic and foreign labor market
- 3 Wages and participation
- 4 Shocks
- 5 Quantitative analysis

- Appropriateness of search-matching model in offshoring
 - Lumpiness: jobs are not outsourced individually but rather in larger quantities
 - Do we need search frictions in the foreign market to derive the wage effects? Is an offshoring cost enough?
- How does outsourcing differ from buying intermediate inputs for the domestic labor market effects (which seem to be the main interest)?
- Is labor force participation a key margin for this issue?

Comments: Connecting the domestic and foreign labor markets

- Labor markets need to be connected for offshoring threat
 - Connection has to come through labor market or complementarity of inputs in production function (or both)
 - Conventional free-entry assumption ($V = 0$) does not allow for the interaction through labor market
- Author's choices
 - **Entry-cost** to make vacancies a state variable (Fujita & Ramey 2007)
 - **Sequential matching** for threat of offshoring
 - is sequencing necessary?
 - isn't it sufficient that firm can post vacancy in foreign market to obtain effect on wages?
 - in equilibrium value of domestic and foreign vacancy should be equal
 - domestic workers will acknowledge this threat when bargaining (... participation)
 - is it realistic that unfilled offshored vacancy is returned to domestic market (to be offshored again)?
 - **Complementarity of inputs** in production function?

Comments: Wages and participation

- When setting $\Omega = 0$ and entry cost = 0 one would 'normally' get the standard M-P wage equation

$$\hat{w}_{D,t} = \eta f_{n_{D,t}} + (1 - \eta) \left[\frac{h'(\text{lf}p_t)}{u'(c_t)} + \underbrace{b + \beta_t (\text{future_value})}_{U_t} \right]$$

- Endogenous participation margin**

- Free entry of workers: $U_{D,t} = U_{D,t}^* = U_{D,t}^* = 0$
- No future value for workers in wage derivation (ref. Hall/Milgrom 2008, Lechtaler, Snower et al. papers 2010, 2011)

$$\hat{w}_{D,t} = \eta f_{n_{D,t}} + (1 - \eta) \frac{h'(\text{lf}p_t)}{u'(c_t)}$$

- Permanent shocks - Baldwin's (2006) "Great Unbundlings"
 - Offshorability shock: viewed as technological change - lower cost
 - How about shock in foreign labor supply (eg. China)? (eg. Fahr & Vanhala 2010)
- Transitory shocks
 - Trade liberalization shock temporary, $AR(1)$?
 - slow moving long run phenomena, eg. WTO membership of China
 - instead: temporary shock to eg. shipping (transport) costs
 - or perhaps rise of protectionism (in the first years of the crisis)?

Comments: Quantitative analysis

- Focus is on U.S.-Mexico "Maquiladoras". How would the analysis change for eg. U.S.-China?
 - Effects of U.S. offshoring on Chinese economy is certainly smaller than what it is for Mexico
 - Germany and former Soviet-bloc countries?
- "Offshoring" parameters have wide range in the literature, sensitivity analysis important
 - Zlate (2010) U.S.-Mexico
 - estimates of offshorable jobs

Authors	Jobs concerned	Countries concerned	Percent of tot. empl.	Year
Jensen and Kletzer	9.4 million	United States	9.4%	2000
Garner	14 million	United States	10%	2000
Van Welsum	23 million	United States	18.1%	2002
Beedham and Kroll	15 million	United States	11.7%	2003
McKinsey Global Inst.	160 million	World-wide	11%	2003
Blinder	28-42 million	United States	20-25%	2004

- Very nice paper with a clear contribution
- Rightly focuses on *wages* and *threat* of offshoring
- Many potentially interesting extensions to the model
 - sectoral/task dimension
 - wage inequality
 - shocks