

Discussion of “Experience Matters”

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July 12, 2012

- ① $w(t)$: experience wage profiles are “flatter” in poorer countries.
 - $w(20)/w(0)$ – US: +130%, IND: +50%.
- ② $w(t) \rightarrow h(t)$: converting wage profiles into human capital profiles.
 - $h(t)/h(0) = w(t)/w(0)$.
 - $h(0) = 1$
- ③ $h(t) \rightarrow L$: development accounting.
 - Experience is as important as schooling.

$$w(t) \rightarrow h(t)$$

- Take a text-book Ben-Porath model.
- Calibrate it.
- Use it to measure $h(t)$ for 3 countries.
- I abstract from schooling.

A Ben-Porath Model

- LMPQ: $h_0 = 1$
- Heckman, Lochner, Taber (1998 RED):

$$h_{t+1} = (1 - \delta)h_t + Ah_t^\alpha l_t^\beta$$

- Measured wage:

$$w_t = \omega h_t(1 - l_t)$$

- Aggregate labor input per worker:

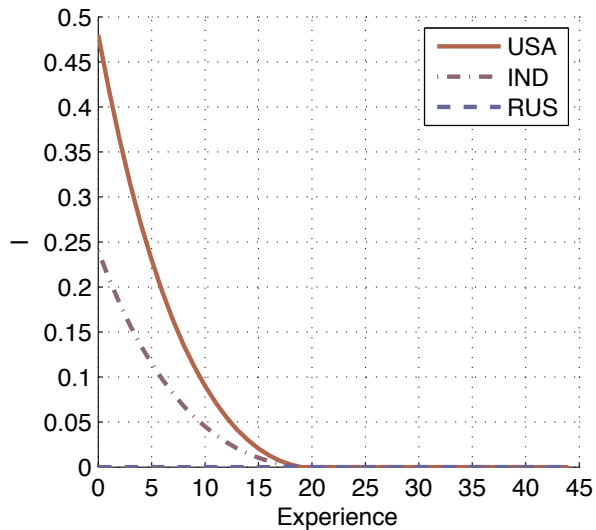
$$L = \sum_{t=0}^T N_t h_t (1 - l_t)$$

- Heckman, Lochner, Taber (1998 RED):
 - $\alpha = 0.945$. $\beta = 0.832$. $\delta = 0$
 - l_t : declines from 0.48 to 0 over first 20 years.
- $A = 0.05$:
matches $w_{20}/w_0 = 2.3$ (LMPQ's value for USA).

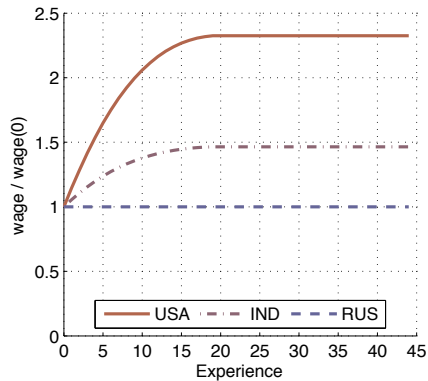
Countries differ only in job-training time.

- ① USA: l_t from Heckman, Lochner, Taber
- ② India: l_t set to 50% of HLT
- ③ Russia: $l_t = 0$

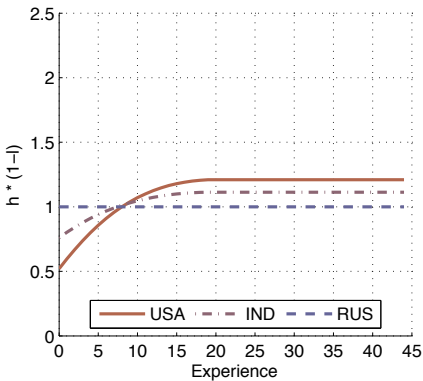
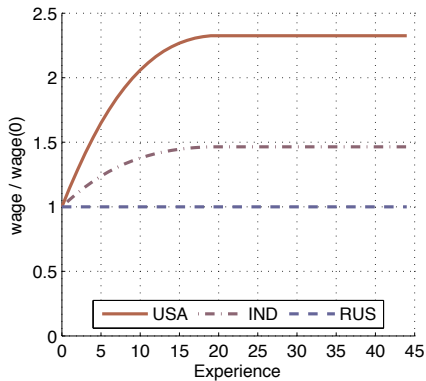
Investment



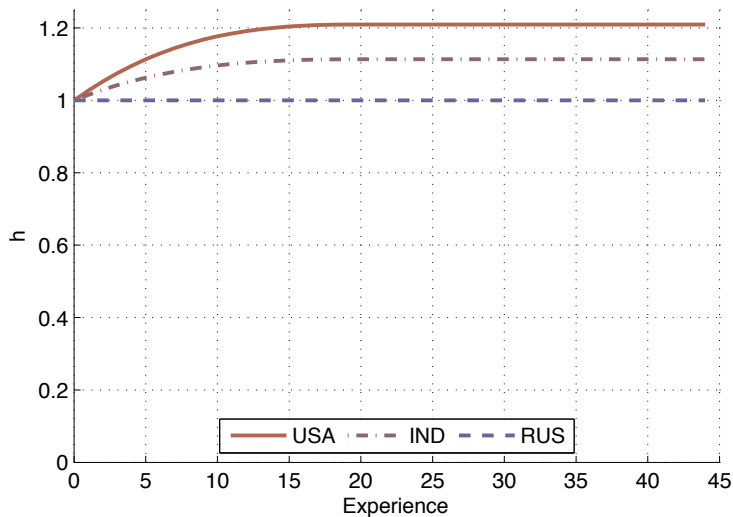
Implications



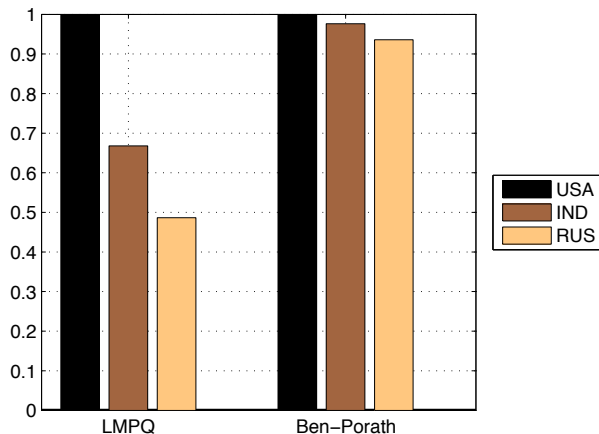
Implications



Implications



Average Labor Input



LMPQ: $L = \sum_{t=0}^T N_t \frac{h_t(1-l_t)}{h_0(1-l_0)}$. Ben-Porath: $L = \sum_{t=0}^T N_t h_t(1-l_t)$

Why so small?

- Why does the Ben-Porath model imply small differences in H across countries?
- Kuruscu (2006 AER): training has small effects on lifetime income.

Where does the difference come from?

- LMPQ: $w_t = \omega h_t$
 - Workers do not pay for learning
- Ben-Porath: $w_t = \omega h_t(1 - l_t)$
 - Workers pay for learning

A Suggestion

- Needed: a theory that converts wage profiles into human capital profiles.
- One idea: Calibrate a Ben-Porath model for each country.
 - Countries differ in training costs or TFP.
- Additional benefits:
 - Avoid calibration that relies on $w(0)$.
For a country with 8 years of schooling: $t = 0$ is age 14!
 - Model helps to identify cohort and time effects.