Trade, Labor Markets and the Role of Human Capital

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Overview: Specific human capital and trade

- Specific human capital is related to wages
 - Industry, occupation, and task tenure measures
 - ▶ Task tenure portable across occupations and industries
- New welfare implications of trade
 - Workers lose specific human capital from displacements
 - Trade-related displacements may be more costly
- New focus on task trade
 - Important to understand task portability
 - Factor in within group reallocations

2/5

Comment 1: Worker selection and sorting

- Complicates causal interpretation of tenure on wages
 - Assortative matching of workers into more similar tasks
 - Tenure may reflect time-varying unobservables
- Trade could provide exogenous shock
 - Potential to use for causal interpretation
 - Need to ensure task type not related to tenure (eg, manual)
 - Requires convincing measure of trade-related displacement

Comment 2: Identifying trade-related displacements

- Paper uses industry lagged import penetration with industry FEs
 - Cannot compare high vs. low import penetration industries
 - Penetration in year prior to displacement relative to industry mean
 - Different de-meaning for industry switchers
 - Does not necessarily capture changes in import penetration
- Consider alternative specifications
 - Without industry FEs
 - Changes in import penetration
- Consider export intensity
 - Expansion of exports can also lead to shuffling/displacement
 - Do workers that switch into export-intensive industries face similar costs?

Comment 3: How do we think about unemployment?

- Additional impact of trade on workers?
- How does unemployment affect task tenure measure?
 - Is unemployment better than very distant tasks?
 - Does experience decay with unemployment?
 - Do workers internalize task distance implications in employment choices?

Additional comments 1: German labor market?

- Context in order to assess applicability to other countries
- What is the outside option for workers?
- Do firms face firing constraints?
 - That vary across industries?
 - That depend on trade status?
- Does Germany have job re-training programs?
- Search mobility

1/5

Additional comments 2

- Economic interpretation of coefficients
 - Nice to evaluate interactions for different industries
 - Only meaningful without industry fixed effects
- Displacements that occur when import penetration above mean
 - Positive if no industry or occupation switch
 - Positive or zero if no occupation switch
 - Not totally consistent with your story

Additional comments 3: Why limit to "involuntary" displacements?

- Define as separation followed by 90+ days of unemployment
 - Measurement issues possible
 - Smaller sample
 - How to account for unemployed period?
- Consider short separations
 - Look at role of industry import and export intensity
 - Change in relative prices of tasks induces sorting
 - Use trade liberalization, etc as instrument for switching

Additional comments 4

- Time frame of sample in regressions?
- High wage censoring
- Analysis without females
 - Time trends in increased participation
 - Maternity leave
- Separate analysis for low and high skill workers
 - Gathmann and Schonberg suggest important differences (in slopes)
 - Trade effects may be stronger for the low skill workers

Estimate:

Relationship between wages and tenure measures

$$\begin{array}{lcl} \textit{w}_{\textit{it}} & = & \alpha_{1}\textit{X}_{\textit{it}} + \alpha_{2}\textit{IndTen}_{\textit{it}} + \alpha_{3}\textit{FirmTen}_{\textit{it}} + \alpha_{4}\textit{OccupTen}_{\textit{it}} + \\ & & \alpha_{5}\textit{TaskTen}_{\textit{it}} + \textit{FE} + \varepsilon_{\textit{it}} \end{array}$$

Change in real wages following involuntary separation

$$\Delta w_{it} = \alpha_1 X_{it-1} + \alpha_2 IndTen_{it-1} + \alpha_3 FirmTen_{it-1} + \alpha_4 OccTen_{it-1} + \alpha_5 TaskTen_{it-1} + \alpha_6 ImpPen_{it-1} + FE + \varepsilon_{it}$$

- Add interaction between import penetration and:
 - * industry switch
 - occupation switch
- Change in tenure following an involuntary separation

$$\Delta Ten_{it} = \alpha_1 X_{it} + \alpha_2 IndTen_{it-1} + \alpha_3 FirmTen_{it-1} + \alpha_4 OccTen_{it-1} + \alpha_5 TaskTen_{it-1} + \alpha_6 ImpPen_{it-1} + FE + \varepsilon_{it}$$

Run for Industry, Occupation, and Task tenure

Teresa Fort (UMD) WAITS 04/06/2012 5 / 5