

Four Reproducible Contributions in Development Economics

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Grandfathers and Grandsons

Effects of a Male-Only Change in Pensions

Four
Reproducible
Contribu-
tions in
Development
Economics

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Grandfathers
and
Grandsons

Making the
Next Billion
Demand
Access

Global Value
Chains in
LICs

Motivation

- Income recipient and growth
- Growth and future income
- Grandmothers and Granddaughters:
 - South African pension, including black population
 - eligibility-age differential: women 65, men 60
 - life expectancy significantly lower: large selection bias

Identification Strategy

- Pension change (2010): men 65 \rightarrow 60, to a par
 - still selection bias based on life expectancy
- NIDS: 2008 (pre) & 2011 (post)

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Table: Food and Non-Food Expenditure

	Food	(P > t)	Non-Food	(P > t)
event * Man 60-65	103.82	(0.03)	-0.05	(0.22)
event * Man 65+	0.09	(1.00)	-0.02	(0.35)
event * Woman 60-65	4.69	(0.90)	0.02	(0.36)
event * Woman 65+	104.24	(0.00)	0.01	(0.51)
Man 60-65	55.61	(0.20)	206.16	(0.57)
Man 65+	112.18	(0.00)	377.43	(0.57)
Woman 60-65	46.88	(0.13)	-356.02	(0.16)
Woman 65+	-0.68	(0.00)	-181.57	(0.38)
event	35.23	(0.00)	131.32	(0.08)
Household Income	0.03	(0.00)	0.09	(0.00)
Girl	-12.49	(0.22)		
Intercept	810.81	(0.00)		
Observations	15938		15938	

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Table: Weight for Age

	General	(P > t)	Boys	(P > t)
event * Man 60-65	0.33	(0.02)	0.44	(0.03)
event * Man 65+	-0.03	(0.74)	0.15	(0.31)
event * Woman 60-65	0.15	(0.18)	0.18	(0.23)
event * Woman 65+	0.04	(0.58)	0.29	(0.79)
Man 60-65	-0.27	(0.03)	-0.35	(0.06)
Man 65+	-0.06	(0.47)	-0.35	(0.01)
Woman 60-65	-0.17	(0.06)	-0.14	(0.27)
Woman 65+	0.03	(0.69)	0.09	(0.32)
event	0.00	(0.00)	0.01	(0.85)
Household Income	0.00	(0.00)	0.00	(0.00)
Girl	0.09	(0.00)		
Intercept	-0.31	(0.00)	-0.33	(0.00)

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WfA households with and without a newly eligible member

Figure: Weight for Age



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The Local-Content Effect of google.co.za in Setswana

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Motivation

- Two-Sided Market / Cross-side network effects
- WWW content is hard
- Social media content is easier: Facebook vendor lock-in

Quantifying Content

- using visit counts instead of page counts

Endogeneity

- Maybe Google introduced the interface following increased usage among Setswana speakers?
- Botswana speaks Setswana
- google.co.bw was translated in Setswana
- introduction on google.co.za was a spillover, exogenous
- google.co.za also introduced Xhosa, but not exogenous

Implement trade decomposition procedures in R

- Leontief
- Wang Wei Zhu (2013)

Motivation:

- simplify for end users
- consistent and transparent approach

Additional work:

- gvc package: implement indicators
- Interactive demo: <http://shiny.qua.st/decompR>
- RStudio Add-in: Graphical User Interface (soon)

Confirming Existing Understanding 1995-2011

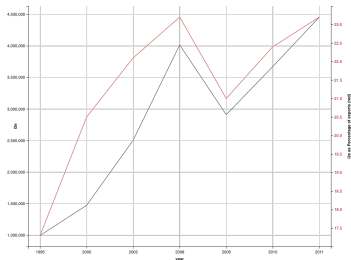


Figure: GVC integration

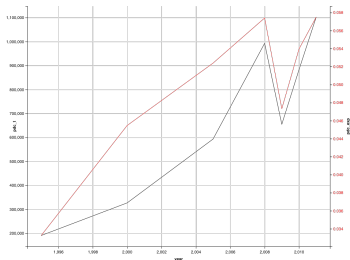


Figure: double counted trade

- increase in backward linkage: importing 2 export (i2e)
 - i2e grew ~350%
 - i2e share of total exports 17% -> 23%
- Wang Wei Zhu (2013)
 - pdc (proxy length) share of total exports rose around 73%

Global Value Chains in Low Income Countries

TiVa Analysis

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Developing Country trends: New evidence

Table: GVC integration by income

Country group	<i>i2e</i>		<i>e2r</i>	
	Average	Δ 95-11	Average	Δ 95-11
Low/Lower middle	23.46%	48.22%	20.35%	38.58%
High	22.64%	41.84%	21.85%	29.50%

Table: WWZ decomposition results by income

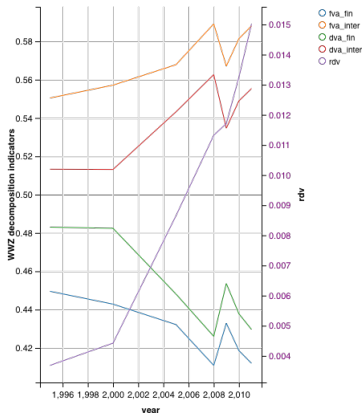
group	<i>fva_fin</i>	<i>fva_inter</i>	<i>dva_fin</i>	<i>dva_inter</i>	<i>rdv</i>
L(M)IC	42.07%	57.93%	44.09%	54.73%	1.18%
High	39.38%	60.62%	40.73%	56.85%	2.42%

Global Value Chains in Low Income Countries

TiVa Analysis

Developing Country Trends: New evidence

Figure: WWZ decomposition indicators



South East Asia:

- primarily backward linkages
- Latin America
- low backward and forward linkages

Africa

- Tusinia
 - mainly backward linkages
 - moving up in value chain
- South Africa
 - low levels of integration
 - benefits from commodities boom

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Appendix:
Comments

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Early indicates

- strictly comparable indicators
- relate to outcome variables