Colloque international / International Seminar



L'enfant et ses proches. Dynamiques familiales en Afrique Subsaharienne



Children and family dynamics in sub-Saharan Africa

26-28 octobre 2016

Institut national d'études démographiques (Ined) 133, boulevard Davout, 75020 Paris

Investigating between- and within-family differences in children's time allocation to schooling and work in northwestern Tanzania /

Explorer les différences inter- et intra-familiales dans l'allocation du temps scolaire et du temps productif dans le Nord-Ouest de la Tanzanie

Sophie Hedges (LSHTM, UK), Rebecca Sear (LSHTM, UK), Jim Todd (NIMR, Tanzania), Mark Urassa (NIMR, Tanzania) and David W. Lawson (Department of Anthropology / University of California, US)

Scolarisation, travail et santé des enfants : la configuration familiale compte-t-elle ? How do school, work and child health interact with family structure?



Gender differences in educational outcomes and household work in northwestern Tanzania



Sophie Hedges¹, Rebecca Sear¹, Jim Todd^{1,2}, Mark Urassa², David W. Lawson³

- 1 London School of Hygiene and Tropical Medicine, London, UK
- 2 National Institute for Medical Research, Mwanza, Tanzania
- 3 Department of Anthropology, University of California, Santa Barbara, USA

Study background





- Industrialisation / urbanisation associated with decline in children's work and increase in education
- Trade-offs in contemporary developing societies?

Gender, education and child labour









Study aims

- To describe the forms and levels of children's work and school attendance in two villages representing a gradient from more urban to more rural
 - Expect more work and less education in rural village
- To assess the household structure and childlevel determinants of time allocation to school and work activities
 - Gender: expect more investment in boys' education
 - Gender: expect gendered division of time
 i.e. boys agriculture, girls domestic
 chores



Data collection

Household surveys:

- Household roster
- Livelihoods
- Assets and food security
- Attitudes

For children aged 7-19:

- Interview with parent / guardian about education
- Interview with child / young person
 - Work history
 - Time allocation



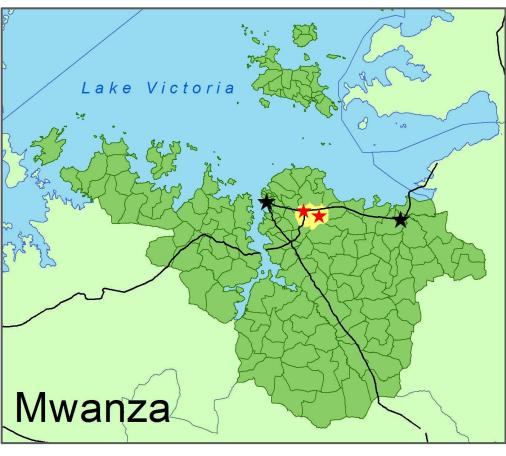


Data collection

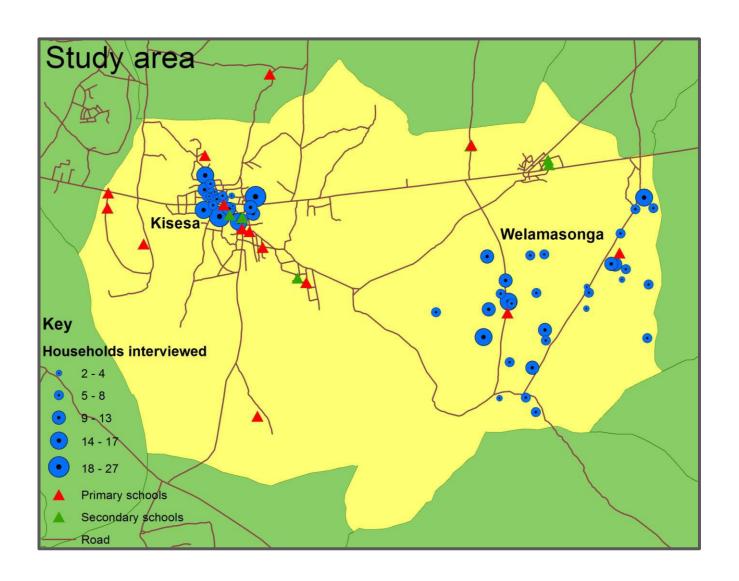


Study site

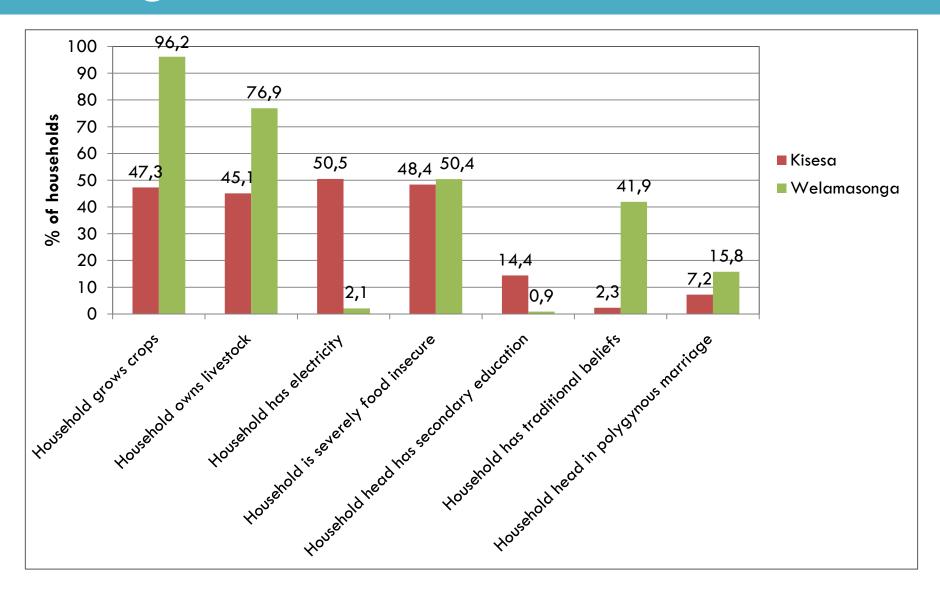




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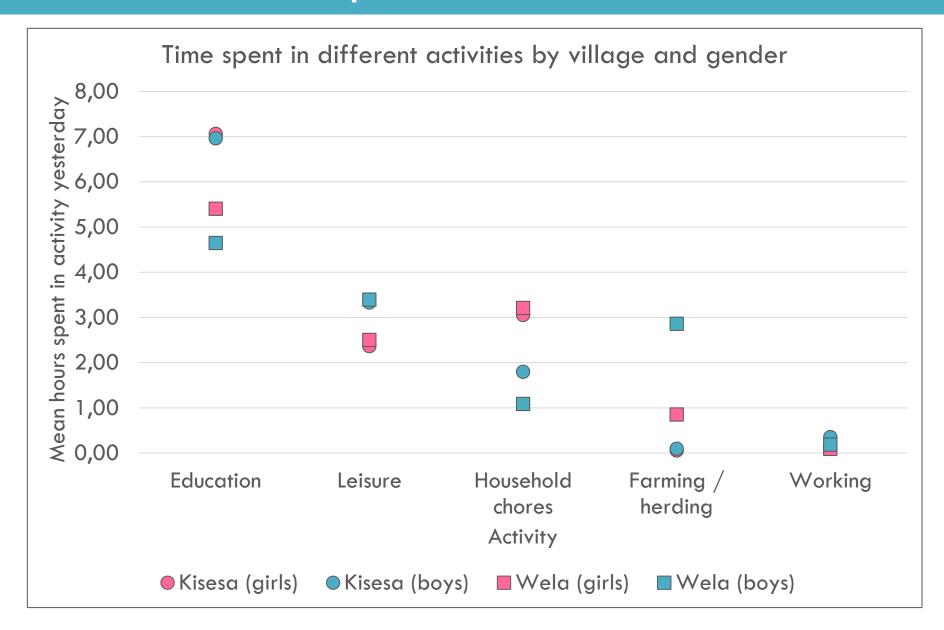
Village differences



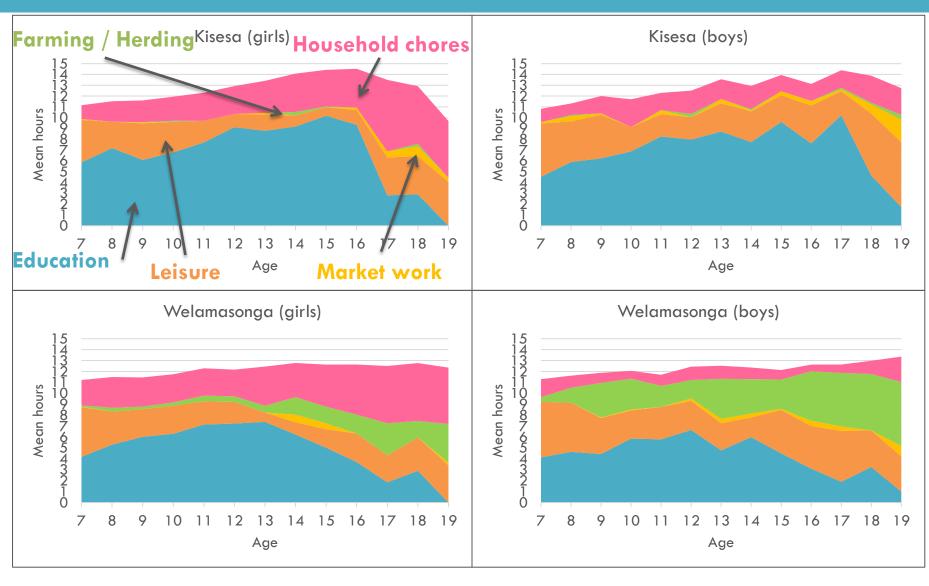
Sample size and educational outcomes

Sample:	Kisesa		Welamasonga		Total
Number of households	222		234		456
Number of children	619		768		1,387
Number of children interviewed	538		740		1,278
Household size (mean)	7.1		8.0		7.6
Education variables:	Girls	Boys	Girls	Boys	Total
Currently enrolled in education (N=1,387)	83.95	87.80	79.10	70.51	79.76
Attended school yesterday (N=1,032)	91.10	86.30	87.70	86.60	87.90
Grade repetition (N=1,365)	17.03	22.79	20.75	19.36	19.93
Progressed to secondary school (N=526)	76.22	68.50	33.33	30.22	52.66
Years of education (mean)	7.15	6.73	5.32	4.99	5.96

Results: Descriptive statistics



Results: Time allocation



Education

Leisure

Market work

Farming / Herding

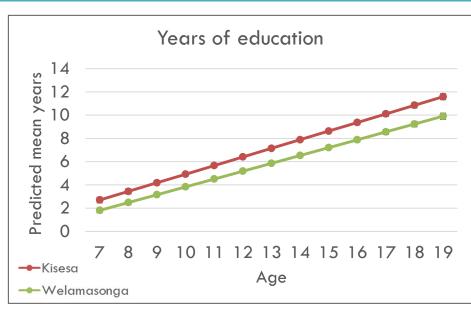
Household chores

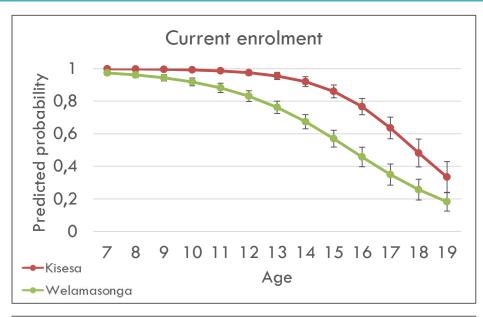
Results: Regression models

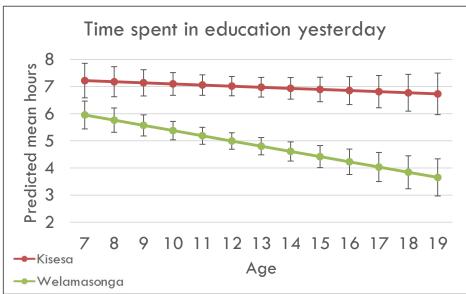
	Years of education	Time spent in educational activities yesterday	Currently enrolled in education	Has not repeated a grade	Progression to secondary school (14-19 year olds)
Age	0.74**	-0.04	-0.72**	-0.03	0.07
Rural	-0.43	-0.21	-4.24**	-0.90+	-1.80**
Male	-0.44**	-0.44+	-2.94**	-0.12	-4.99*
Rural # age	-0.07**	-0.15*	0.18*	0.07+	
Male # age			0.19**		0.29*
Observations	1,385	1,278	1,387	1,362	526

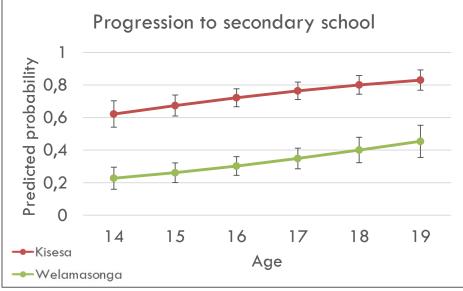
Beta coefficients presented + p<0.1, * p<0.05, ** p<0.01

Education by age and village







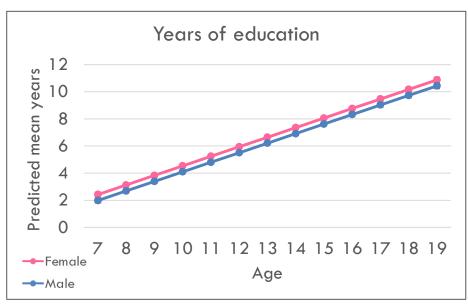


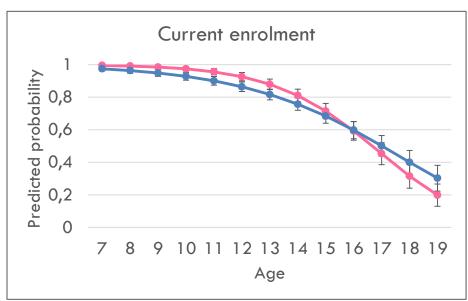
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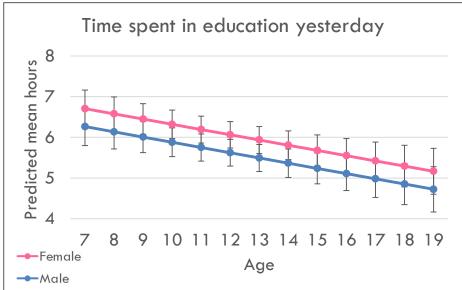
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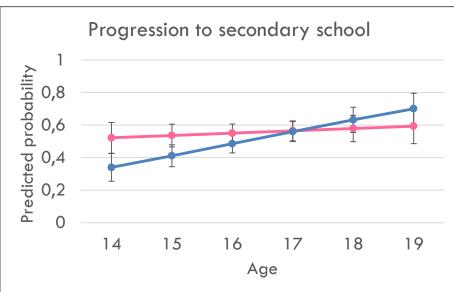
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Education by age and gender

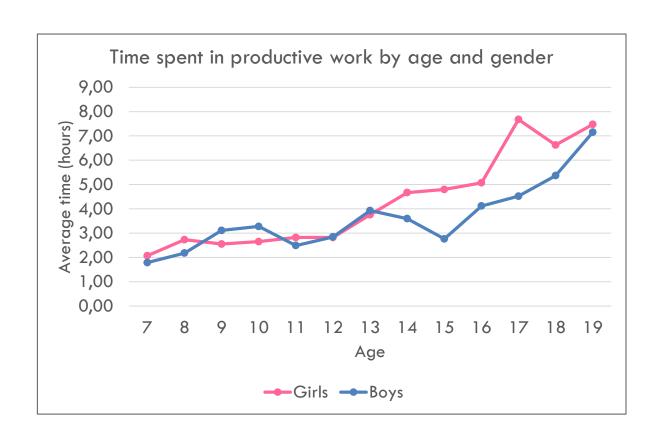








Productive work



Productive work and education time

	Time spent on educational activities
Age	0.01**
Rural	-0.08
Male	-0.24*
Time spent in productive work	-0.89**
Leisure time	-1.16**
Male # leisure time interaction	0.12**
Rural # age interaction	-0.00*
Age # productive work interaction	-0.00**
Age # leisure interaction	-0.00+
Observations	1,278

Beta coefficients presented + p<0.1, * p<0.05, ** p<0.01

Summary and further research

- More education in relatively urban village
- Gender differences female advantage
 - Farming less compatible with school than domestic chores
 - Suggestion of age / cohort effect girls progressing earlier / quicker through school?
 - Trade-off between education and leisure time for girls
- Implications:
 - "Double shift"
 - Lack of leisure time may impact wellbeing?
 - Impact on educational attainment?



Acknowledgements





Evolutionary Demography Group











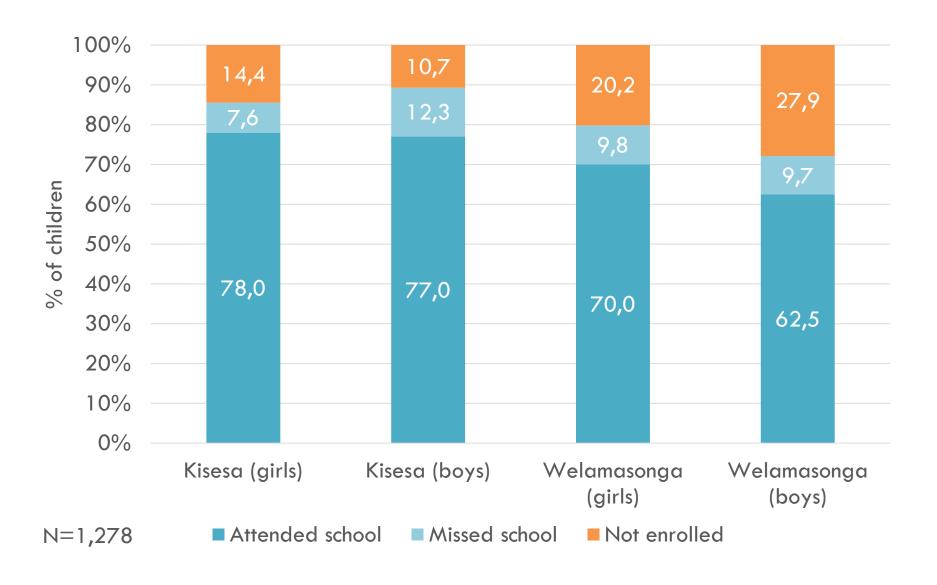




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School enrolment and attendance

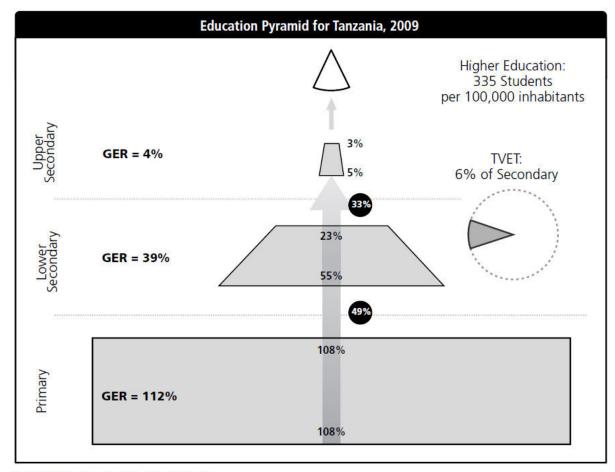


Education in Tanzania

Ages 18 to 19 English

Ages 14 to 17 English

Ages 7 to 13 Swahili



Source: Tables 2.8 and 2.11 and Figure 2.7.

Note: TVET refers to technical non-higher education and VET courses (both VETA and NACTE-registered).

Attendance

