



Measuring the Distribution of Housework among Men and Women in Ghana: The NTTA Approach

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Introduction

- Inequality (economic and noneconomic) forms possess:
 - Some inherent gender dimensions in the form of gender-differentiated time use (Abdourahman 2010)
- In most developing countries, gender division of labour has traditionally selected women to specialize in household production activities such as:
 - Cooking and cleaning
 - Caring for children and the elderly

Introduction

• Share of women in paid employment in 2000 and 2010 in Ghana:

2000 2010

- -Urban: 30.6% to 33.7%
- -Rural : 29% to 28.5% (GSS 2013)
- →A greater proportion of women in Ghana are engaged in unpaid work

Motivation

- Traditional measurements of economies only consider:
 - The market economy and remunerated work
- NTA 2005 results for Ghana indicate:
 - Lifecycle surplus for working-age adults and deficits for dependent age groups (children and elderly)
 - However, NTA suffers the same problems:
 - Non-market services
 - Unclear as to whether the surplus was generated solely by men
- Significant difference between men and women in terms of:
 - Access to education
 - Access to health
 - Familial and other supports
 - Experiences in the labour market

Objectives

- Estimate NTA by sex
- Estimate the amount of time Ghanaian men and women spend on housework
- Compare time spent on market production for men and women
- Identify the differences in the time spent by both genders

Data

- Time use survey 2009:
 - 4,800 households randomly selected from a list of Enumeration Areas
 - Individuals age 10 years and above interviewed
 - 24-hour diary, divided into one-hour slots used as the core instrument to record activities
 - Households interviewed: 4,193; Males interviewed: 4,286; Females interviewed: 5,011
- No income and expenditure survey was conducted in 2009:
 - Used minimum daily wage as a proxy for wages for household activities as well as care

Methodology

• Production

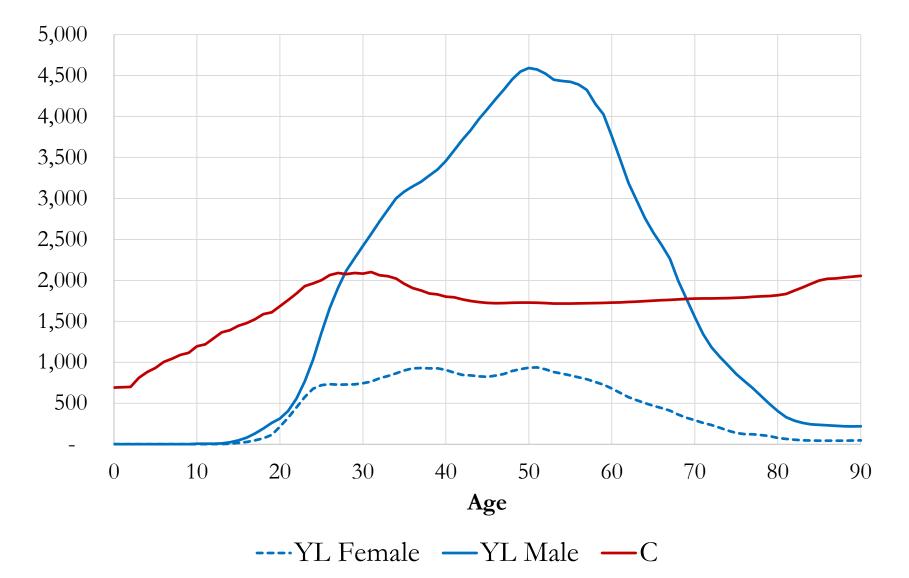
- Calculate time spent by each individual across activities:
 - Paid work, Learning, Household Activities, Non-household activities (Volunteering), Care
- Calculate mean time per day for each sex at each age in each activity
- Smooth profiles
- Consumption
 - Allocate production of the non-market services to consumers within and outside the household (per capita, regression, rule-based)
- Transfer inflows and outflows
 - Based on production and consumption

NTA Results

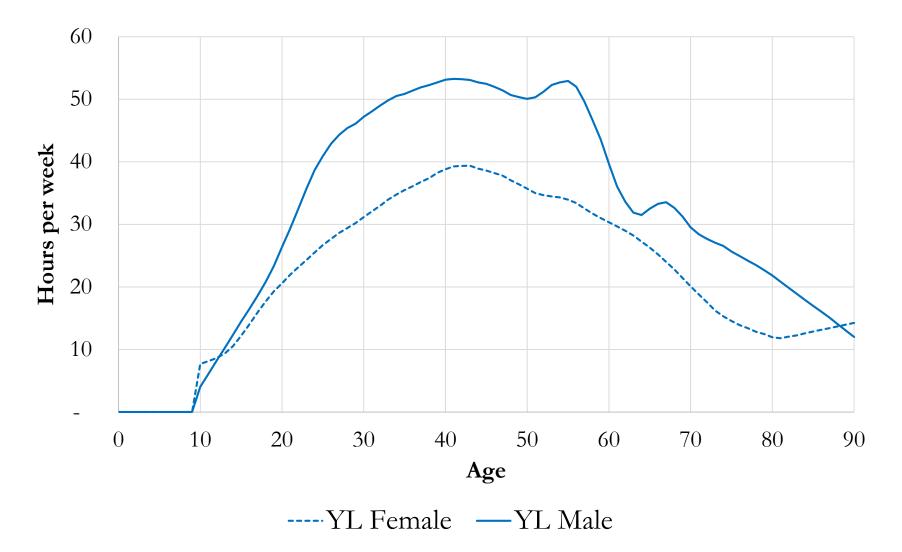
Combining NTA and NTTA data

- We combined our 2005 NTA estimates with 2009 NTTA estimates by:
 - Inflating all 2005 estimates by growth in per capita GDP
 - This is done not to capture only inflation, but also per capita income

Labour Income & Consumption - Money



NTA Labour Income - Time

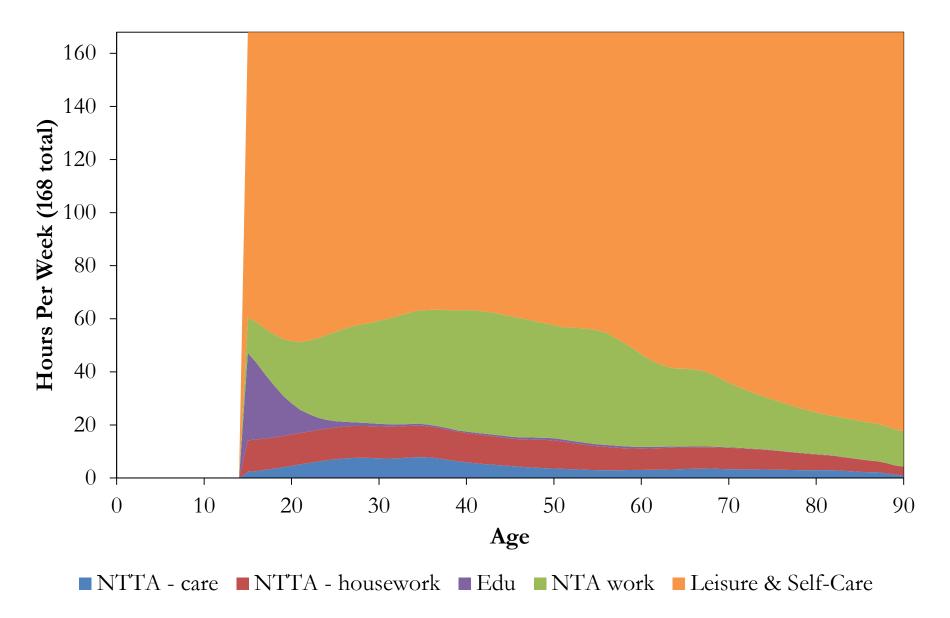


NTA

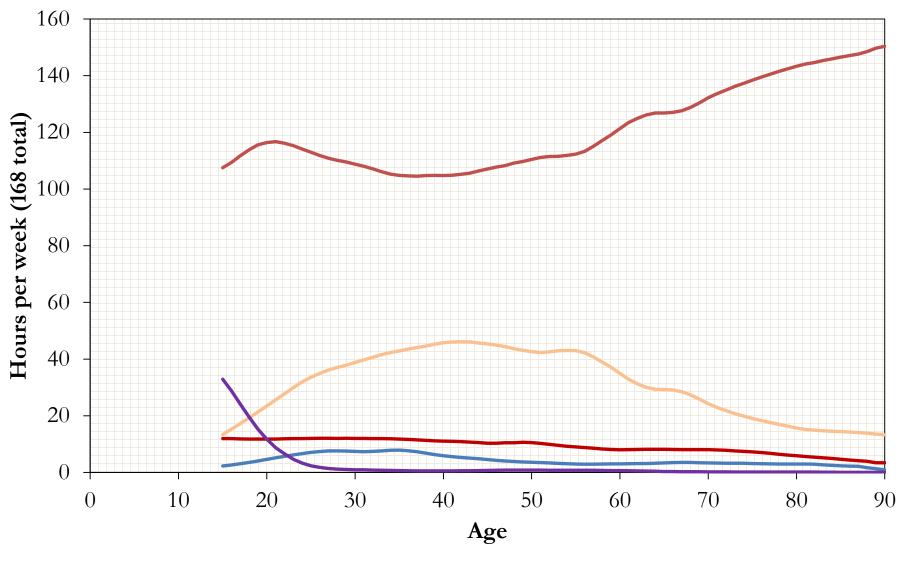
- Females never generate lifecycle surplus
- Males generate surplus between ages 27 and 68 years
- Considering the time version, the difference between males and females is reduced significantly

NTTA RESULTS

Time use, Average Person



Time use, Average person - Separated

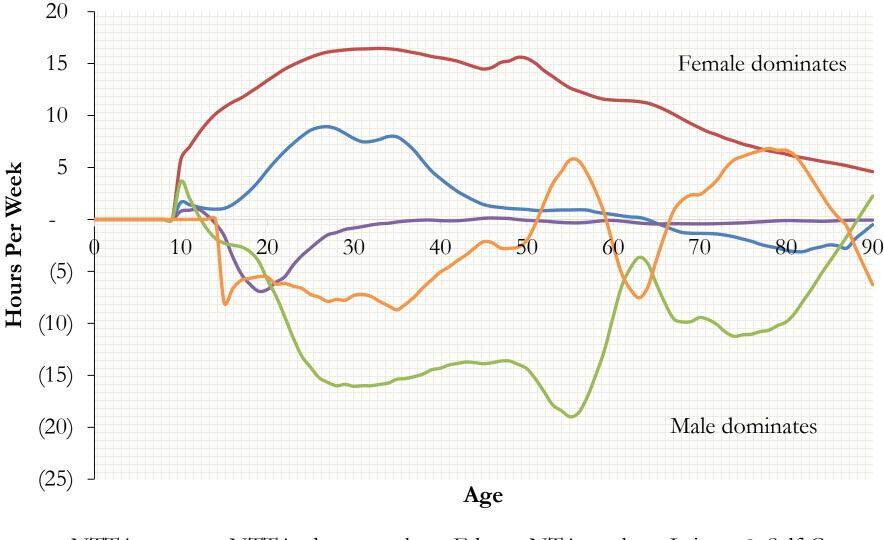


-NTTA - care -NTTA - housework -NTA work -Edu -Leisure & Self-Care

Time use over the lifecycle

- Hours spent on paid work (market production) peaks at age 42 at about 46 hours per week on average
- Time spent on education decreases progressively from 33 hours per week at age 15 to about 1 hour per week at age 27 and beyond
- Time spent on household production peaks at age 27 at about 12 hours per week and declines progressively thereafter
- Hours spend on care increases steeply from age 15 and reaches a peak at age 34 at about 8 hours per week
- All other activities consume a large proportion of the remaining time:
 Leisure and personal care

Time Use, Female-Male Differences

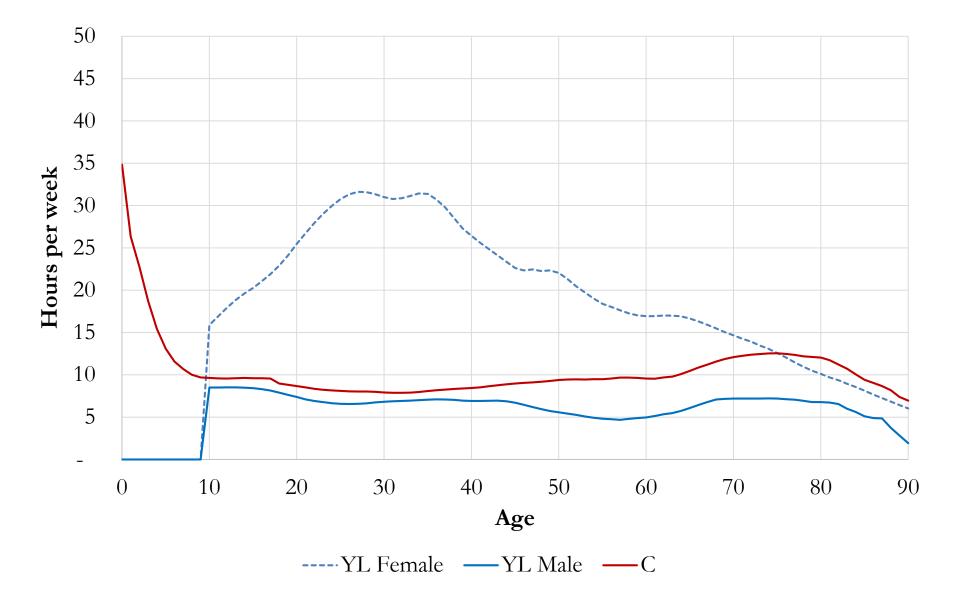


-NTTA - care -NTTA - housework -Edu -NTA work -Leisure & Self-Care

Time Use, Female-Male Differences

- Females dominate in housework over their entire lifecycle
- Males dominate in NTA work over their entire lifecycle
- Males spend more time in education than females from ages 15 to 37
 - Males and females are about the same after age 37
- Regarding personal care and leisure, males and females alternate in their dominance:
 - Males dominate in the early ages till age 50
 - Females generally dominate after age 50

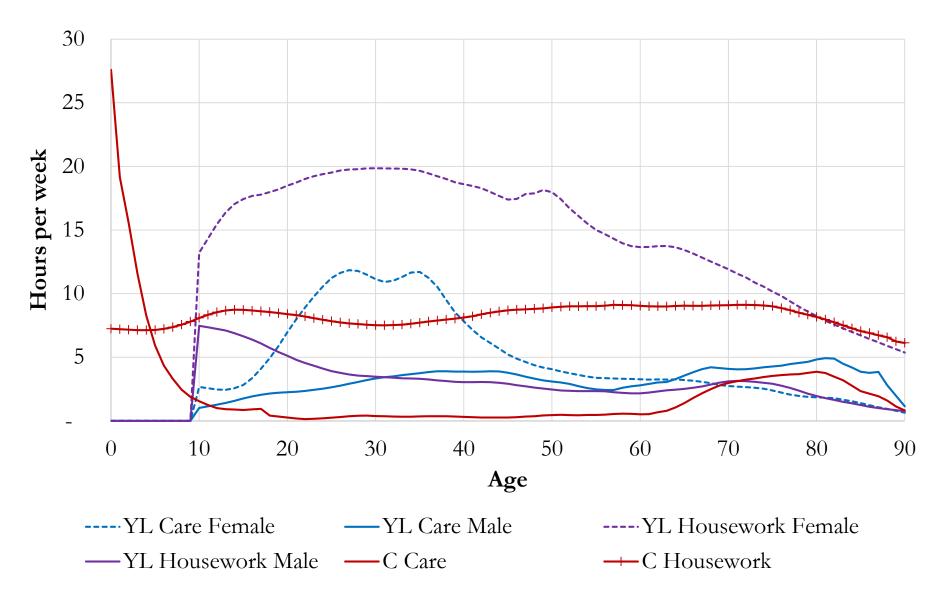
NTTA – Time, Care + Housework



Net Time Transfer

- Females generate a transfer surplus for a significant part of their lives:
 - Girls start generating surpluses at age 10 through to age 73
- Men do not generate a surplus at all over their entire age profile

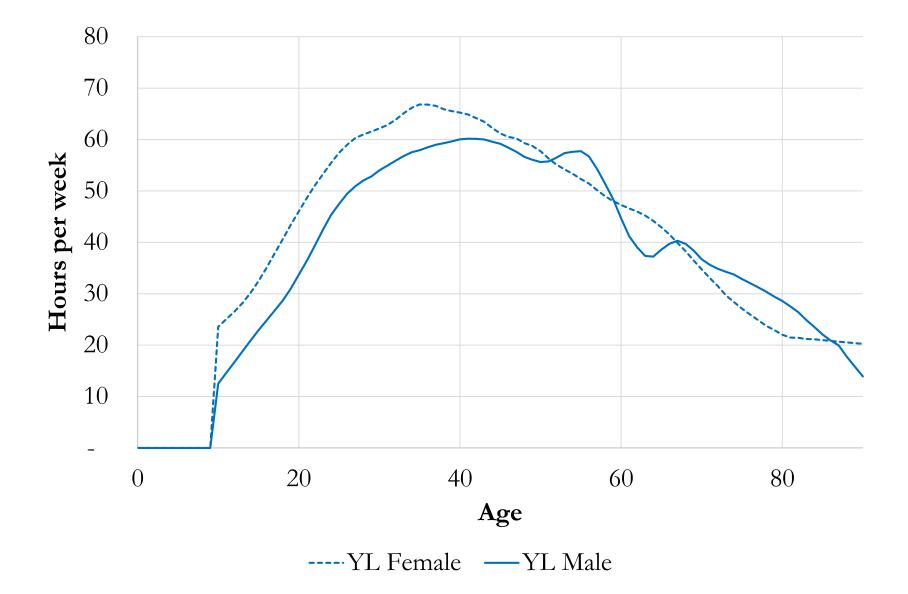
NTTA – Time, Care vs. Housework



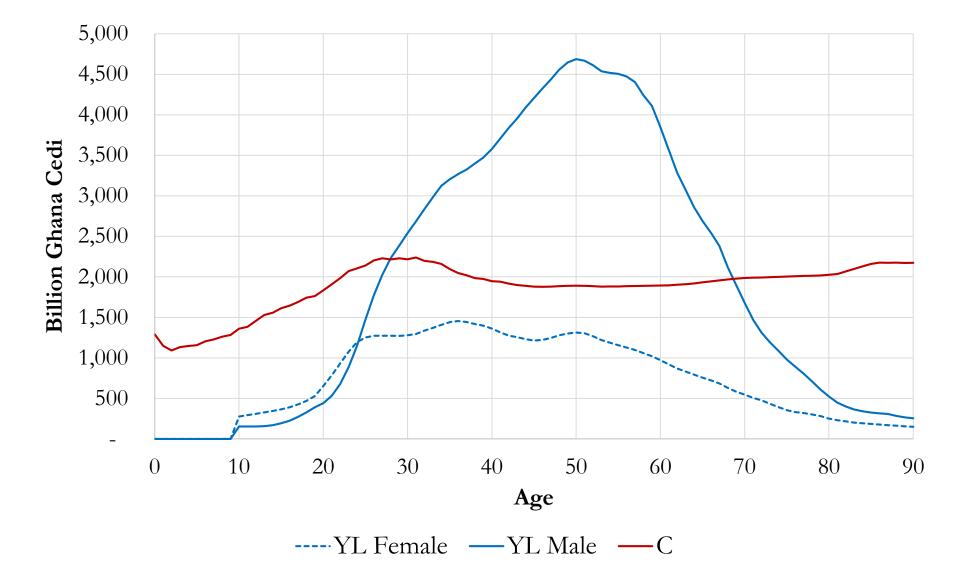
Care vs. Housework

- Females generate care surplus from age 10 to age
 68
 - Peaks twice at ages 27 and 35, producing 12 hours of care per week
- Males also generate care surplus from age 11 throughout
 - However, females generate a larger surplus
- No surplus generated by males for housework
- Significant surplus generated by females
 - Produce 20 hours of housework per week at age 30

NTTA + NTA - Time



NTTA + NTA - Money



Household and market production

- In monetary terms, males generate a lifecycle surplus:
 - Males specialise in market production
 - At the peak age of 41, they spend 60 hours per week on productive activities

- Females spend more time on total productive activities:
 - Females specialise in household production
 - At the peak age of 35, they spend 67 hours per week on productive activities

Concluding remarks

- Significant differences between gender regarding the time spent on different activities (i.e., household vs. market)
 - Women specialise in household production
 - Men specialise in market production
- Overall, women spend more time on productive activities than men:
 - Implication: Significant undervaluation of GDP
 - Implication for labour market

Implications

- Efficiency
 - Women have inbuilt human capital for housework
 - Men have not tapped into what they have
- Equity
 - Power sharing
 - Women could be exposed to poverty

Next steps

- Value household production
 - -By relating it to GDP
- Estimate urban-rural differences in the time spent on household activities
- Consider exploring other possibilities such as estimating:
 - NTTA by number of children
 - NTTA by level of education

Acknowledgements

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