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Consumption inequality between farm and non-farm households in rural Vietnam

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Organization of the presentation

- 1. Introduction
- 2. The Vietnamese context
- 3. Estimation method
- 4. Data and variable description
- 5. Estimation results and discussion
- 6. Conclusion and Policy implication



Introduction

- The importance of non-farm employment is growing
- Rigg (2006) observes rural South countries and reports:
 - Non-farm activities are becoming central to rural livelihoods.
 - Agricultural development is no longer the best instrument for generating rural income and improving livelihoods



Introduction

- Non-farm income in rural Vietnam has risen from 48% in 1993 to 73% in 2016.
- The average growth rate of income per capita is estimated at 7.4% per annum (GSO, 1994, 2018).
- Non-farm employment has potentials to increase inequality among rural households.



Introduction

- Little is known about the sources of inequality between farm and non-farm households.
- This stydt decomposes the gap in household per capita consumption expenditure for the entire distribution
 - Use the 2016 Vietnam Living Standards Survey associated with the Unconditional Quantile Regression model.



The Vietnamese context

- Before 1980s, all agricultural land was assigned to cooperatives.
- The 1988 Land Law assigned agricultural land to individual households with 10-20 years of secure land use right.
 - Land use and crop choice decisions were still controlled by the state.
- Subsequent revisions of the land law granted more land title and security to households



The Vietnamese context

- Land has been re-allocated to households who are more productive
- Land acquisition due to rapid industrialization and urbanization also drives farmers out of traditional agricultural activities
- The proportion of households engaged in non-farm economy increased from 16.5% in 1993 to 34% in 2008.



The Vietnamese context

- Non-farm activities significantly not only increases rural household living standards but also the inequality.
 - Households with more favorable socioeconomic conditions are more likely to participate in high-return activities.
 - Poorer households partake in lowreturn activities.



Estimation method

- The decomposition method proposed by Firpo et al. (2018), also known as FFL.
- Two-stage procedure of estimation:
 - The first stage identifies determinants of real household expenditure at the mean and selected quantiles for both groups.
 - The second stage decomposes the expenditure gap into endowment effect and coefficient effect.



Data and variable description

- The data comes from the Vietnam Household Living Standards Survey (VHLSS) in 2016.
- Sampled households are randomly selected by a three-stage stratified sampling method.
- The 2016 consists of 6,570 rural households
 - 1,900 are farm households (28.9%)



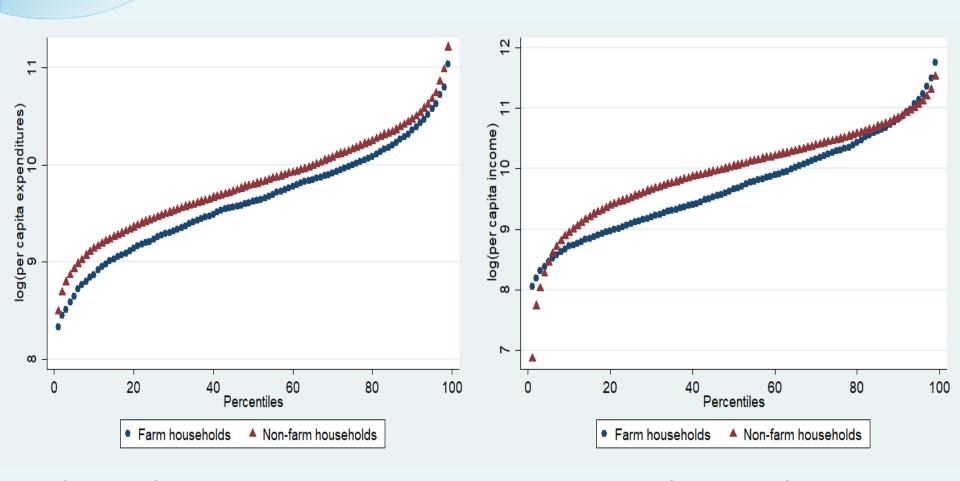
Table 1. Description and summary statistics of key variables

		Farm household Standard		Non-farm household Standard	
Variable	Description	Mean	deviation	Mean	deviation
pce	Per capita expenditure (1,000 VND/year)	18,371	16,410	21,191	15,312
Household is age ethnic educ	heads' characteristics Age of household head Kinh ethnicity = 0; others = 1 Years of schooling of head	48.96 0.40 6.10	13.00 0.49 3.61	52.24 0.15 7.20	14.49 0.36 3.89
Households hhsize dep15 dep65	' characteristics Household size Ratio of household members under 15 Ratio of household members over 65	4.01 0.22 0.08	1.65 0.21 0.20	3.75 0.20 0.13	1.58 0.21 0.28
Socio-econo domremit forremit income	mic characteristics Domestic remittances (1,000 VND) International remittances (1,000 VND) Income per capita from economic activities (1,000 VND)	2,958 263 25,440	6,858 3,621 37,373	6,471 2,777 30,706	13,527 24,220 25,792
Regions reg_1 reg_2 reg_3 reg_4 reg_5 reg_6*	Red river delta Northern midlands and mountain areas North Central and Central coastal areas Central Highlands South East Mekong Delta	0.09 0.33 0.17 0.13 0.05 0.22	0.29 0.47 0.38 0.33 0.23 0.42	0.26 0.15 0.24 0.04 0.09 0.21	0.44 0.36 0.43 0.21 0.29 0.41
Note(s): *	reference group		00 000 17 7		

VND stands for Vietnamese currency (dong). The exchange rate was 22,800 VND/USD in 2016

Source(s): Authors' calculation from 2016 VHLSS

Expenditure and income gap between farm and non-farm households across percentiles





Decomposition results from the extended OB model at mean and selected percentiles

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Quantiles	Mean	10 th percentile	25 th percentile	50 th percentile	75 th percentile	90 th percentile
Predicted gap	0.175 ***	0.271 ***	0.209 ***	0.172 ***	0.153 ***	0.111 ***
Endowment effects	0.177 ***	0.250 ***	0.222 ***	0.188 ***	0.139 ***	0.114 ***
Coefficient effects	-0.002	0.021	-0.013	-0.016	0.014	-0.003

- The per capita expenditure gap almost comes from the endowment effect.
- The gap is estimated at 27.1% at 10th percentile and steadily decreasing to 11% at 90th percentile.



Decomposition results

- Ethnic differential accounts for the largest proportion in the endowment effects
- Education enlarges the gap in both endowment and coefficient effect.
 - The size of the coefficient effects is much larger than that of endowment effects, indicating the importance of the returns to education in terms of expenditure in non-farm activities
- Remittances, household composition are also key predictors of the expenditure gap.



Conclusion and policy implication

- Non-farm employment not only increase rural household welfare but also the inequality.
 - Households with better access to non-farm activities enjoy more benefits.
- Differences in household characteristics such as ethnicity, education, household composition, transmittances and income explain most of the gap



Conclusion and policy implication

- Policy implication
 - Training and education are crucial to help rural workers get access to non-farm activities,
 - Help the poor access to productive resources, including capital, education, etc.
 - Increasing access to non-farm employment for ethnic minorities by vocational training.
 - improvement of infrastructures in disadvantage areas.



Thank you for your attention!

Cám ơn!