

DOES RECKLESS RISK OR CAREFUL PLANNING MAKE HOUSEHOLDS WEALTHY?

A Study of the US Based on the Luxembourg Wealth Study Database

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ABSTRACT

In this article I study how financial risk taking and planning of US households affect their probability to have a higher position in wealth distribution between 1995 and 2016. To this end, I analyze the Luxembourg Wealth Study data by means of ordered logit models. My analysis shows that above average financial risk taking and long planning horizons (over ten years) are the most beneficial for household wealth. Comparing them with other characteristics, I find that age, education, and income of the household head exert considerably stronger positive effect on wealth. However, both higher risk and long planning horizons do pay off.

HYPOTHESES

- 01**

Higher willingness to take financial risk increases the probability of households to be in a higher wealth quartile group

02

A longer financial planning horizon increases the probability of households to be in a higher wealth quartile group

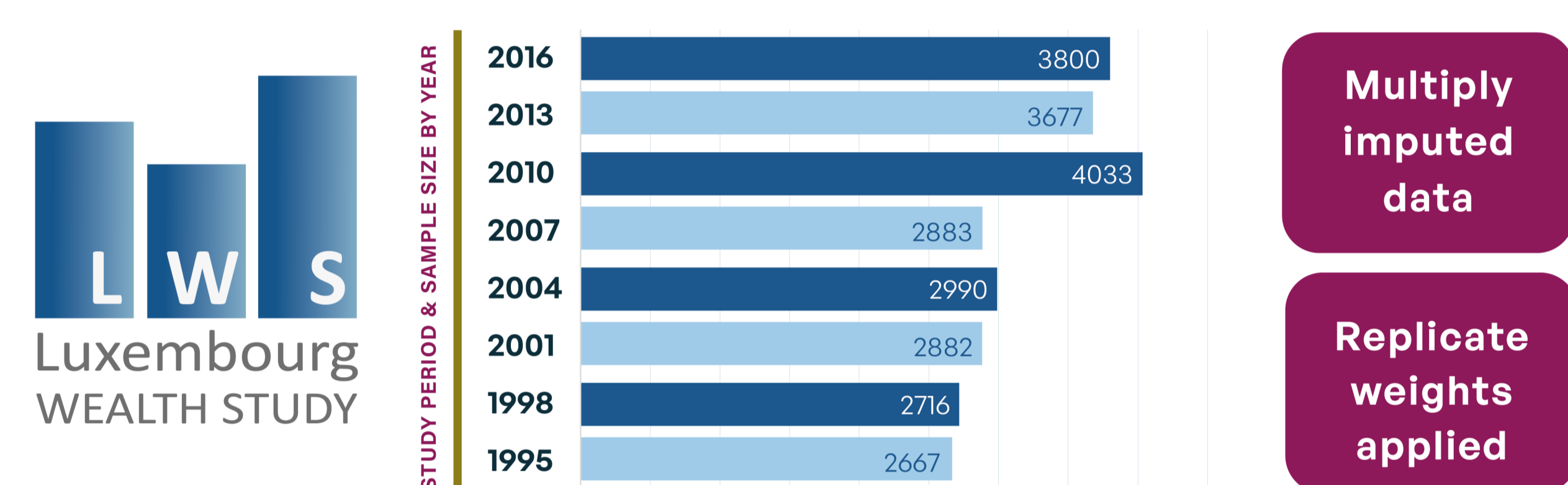
03

The effect of willingness to take financial risk on the probability of households to be in a higher wealth quartile group is different for every group

04

The effect of a longer financial planning horizon on the probability of households to be in a higher wealth quartile group is different for every group

DATA



DEPENDENT VARIABLE - DISPOSABLE NET WORTH QUARTILE GROUPS:



FINANCIAL RISK:

- Substantial
- Above average
- Average

FINANCIAL PLANNING:

- Over 10 years
 - Next 5-10 years
 - Next Year
 - Up to 5 years
- +11 control variables

METHOD

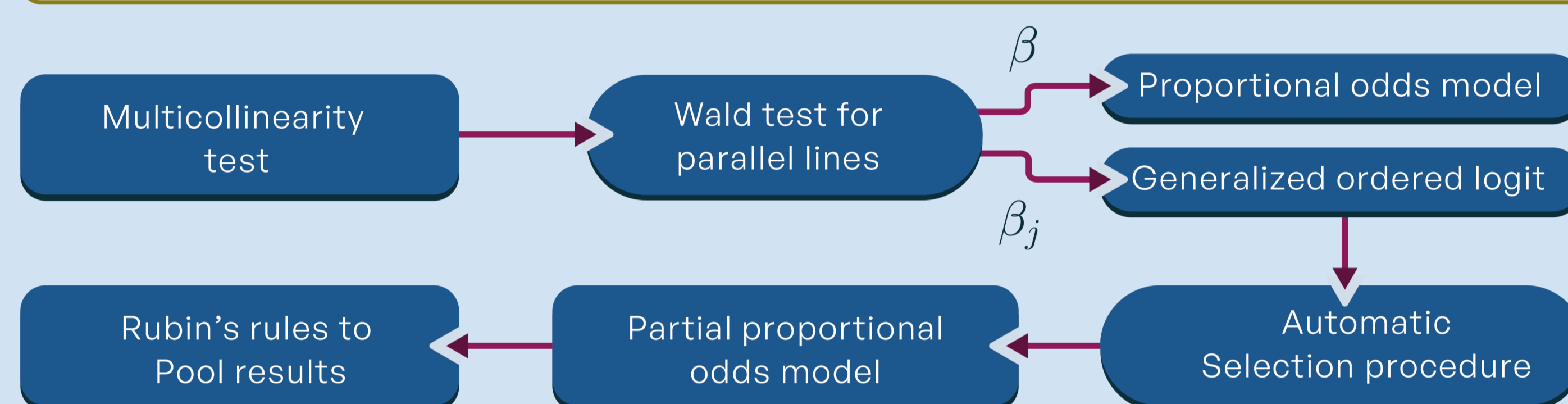
Ordered logit model:

$$P(Y_i > j) = \frac{\exp(\alpha_j + X_i \beta_j)}{1 + \exp(\alpha_j + X_i \beta_j)}, \quad j = 1, 2, \dots, M - 1$$

Y_i - net disposable wealth of a household; X_i - vector of household characteristics; β_j - vector of regression coefficients; α_j - intercept; M - number of categories of ordinal variable

Parallel-lines assumption test

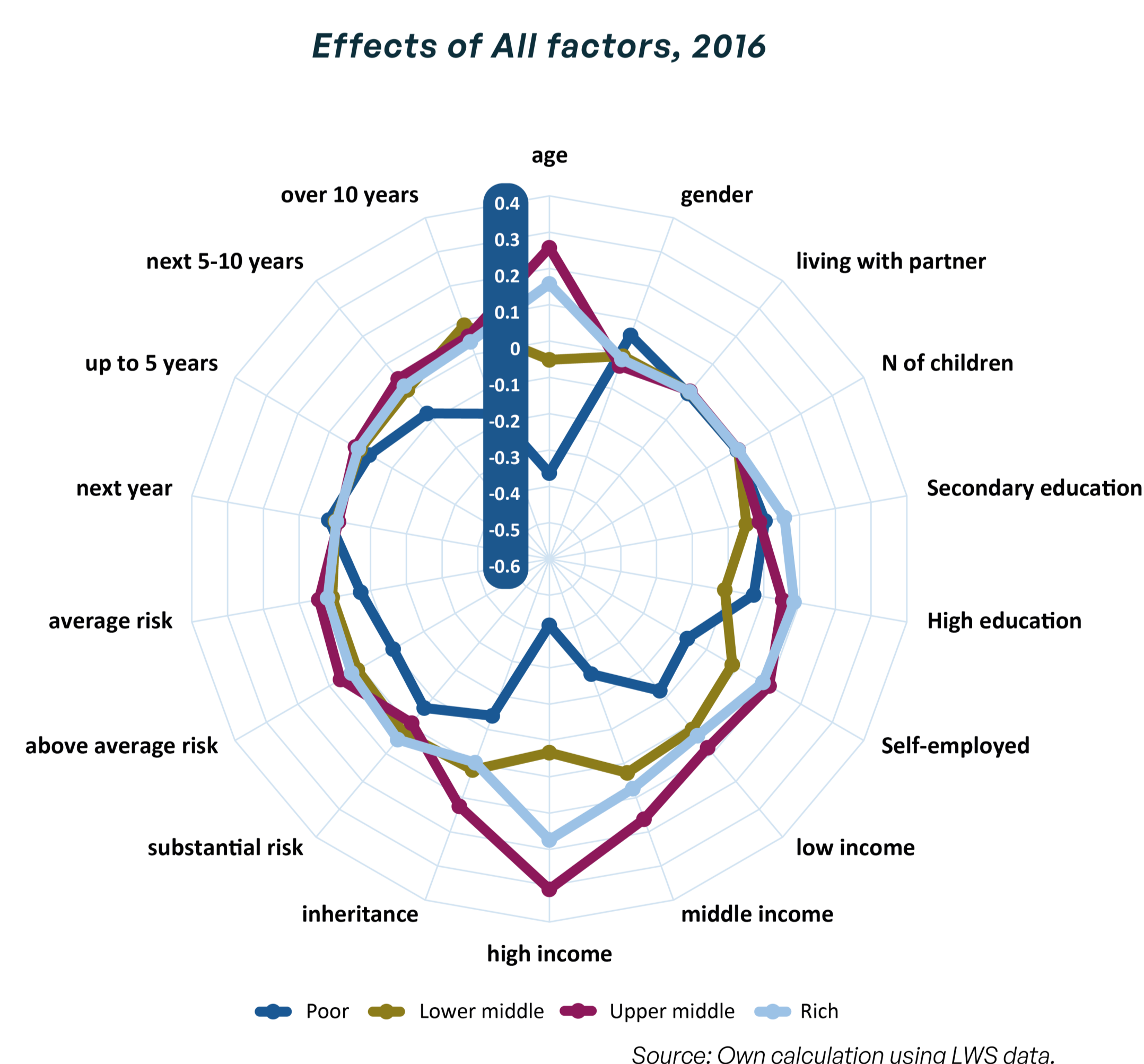
$$H_0: \beta_1 = \beta_2 = \dots = \beta_{(M-1)}$$



Rubin's rules: $\bar{\theta} = \frac{1}{K} \sum_{k=1}^K \theta_k$ $V_T = V_W + V_B + \frac{V_B}{K}$ $V_W = \frac{1}{K} \sum_{k=1}^K SE_k^2$ $V_B = \frac{\sum_{k=1}^K (\theta_k - \bar{\theta})^2}{K-1}$

θ_k - parameter estimate based on one data implicate; K - number of implicates; V_W - within-imputation variance; V_T - total variance; V_B - between-imputation variance; SE_k - standard error of the coefficient estimated using i -th implicate's data.

RESULTS



CONCLUSIONS

- The marginal effects of both behavioral factors changed after the global financial crisis.
- The above average level of financial risk is the most beneficial for household wealth.
- The correlation between the level of financial risk and wealth depends on wealth group.
- Longer financial planning horizons are inducing to wealth.
- Correlation between the length of planning horizon and wealth depends on the wealth group.
- Age, education, and income-related factors have the strongest positive effect on wealth.