

# Monetary Policy and Earnings Inequality: Inflation Dependencies

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- 1 whether the monetary policy (MP) affects labour earnings differently dependent on **earnings level**
- 2 ... and whether these distributional effects vary by **inflation regime**
- 3 ... and how the distributional effects amplify **aggregate consumption**

Contribute by:

- A novel focus on periods of **high vs low inflation**
- Quantification of the **aggregate amplification** of the monetary policy shock due to the earnings heterogeneity channel
- **High-frequency earnings data** on the whole population that matches the frequency of monetary policy shocks
  - ▶ New infrastructure - confidential data is accessible internationally

## Earnings heterogeneity channel and consumption

- **Low-income individuals** are affected the most by monetary policy (Coibion et al. 2017 US, Lenza and Slacalek 2024 DE, FR, IT, ES) or the least (Andersen et al. 2023 DK)
- or the effect has a **weak U-shape**, low-wage earners are affected the most (Amberg et al. 2022 SE, Broer et al. 2022 DE, Hubert and Savignac 2023 FR)
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  - ▶ No estimates by **inflation regimes**

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  - ▶ Tighter monetary policy → higher inequality in **earnings**
  - ▶ No estimates by **inflation regimes**
- Redistributive effects **amplify** the response of consumption, individuals more likely exposed to monetary policy have **higher MPCs** (Auclert 2019)
  - ▶ Exposure of wages taken as **homogeneous by earnings groups** (Lenza and Slacalek 2024) or exposure of unemployment heterogeneous by earnings groups, but not **monetary policy specific** (Slacalek et al. 2020)
  - ▶ No quantification of the contribution of this channel to **aggregate consumption**

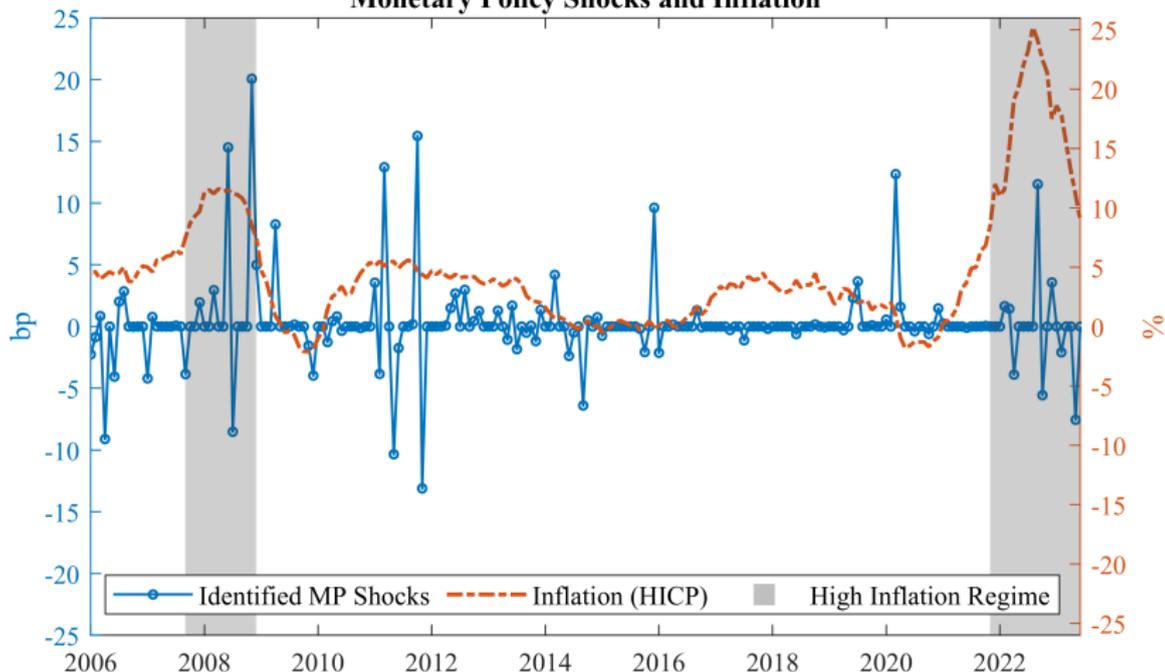
- From **macro to micro** and **back to macro**, 2006M1-2023M9
  - 1 **Macro**: Identify monetary policy shock at a monthly frequency a la Jarocinski and Karadi (2020) (Eurostat, ECB)
  - 2 **Micro**: Estimate the effect of monetary policy shock over the distribution of labour income (Tax and Customs Board)
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- Data from Estonia
  - ▶ High-quality **admin data on earnings at monthly frequency**
  - ▶ Part of the euro area, monetary policy has a strong effect (Almgren et al. 2022), likely due to **net interest rate exposure channel**
  - ▶ Institutional setting close to USA, flexible labour market and similar GDP betas a la Guvenen et al. (2017)

# Monetary policy shock

- Use the Euro Area Monetary Policy Event-Study Database (Altavilla et al., 2019)
  - ▶ Take the changes in the 1 month, 3 month, 6 month and 1 year OIS rates by the **Monetary Event Window**, i.e. change in the median quote from 13:25-13:35 before the GC press release to the median quote in 15:40-15:50 after the press conference
  - ▶ Create the **principal component** of these changes in quotes
- Identify the surprise monetary policy shock
  - ▶ By disentangling it from **central bank information effects** following Jarocinski and Karadi (2020)
  - ▶ Use the poor man's sign restriction approach, which imposes restrictions on the rates and stock market response
    - ★ If an interest rate increase brings along a **decline** in stock markets → **monetary policy shock**
    - ★ If an interest rate increase brings along a **increase** in stock markets → **central bank's information shock**
- Robustness tests: Bayesian VAR-based median reaction (more structure); change in 3M OIS rate (less structure)

## Monetary Policy Shocks and Inflation



- Monetary policy shock is measured at **monthly frequency** as our wage data
- Define a high inflation regime as periods, in which inflation is **higher than 7%** (approx. one standard deviation above its mean)

# Earnings data

- Estonian administrative data on **labour income at monthly frequency** (TSD)
  - ▶ Source: Tax and Customs Board
  - ▶ Available: 2006M1-2023M9
  - ▶ **No top coding!!!** The whole population of wage-earners is covered
  - ▶ Summarise all labour income in a month, i.e. income from all employers and by type (wage income or board member fees)
  - ▶ **Labour income** in gross terms
  - ▶ Keep workers at **primary working age**, from 26 to 65
- Earnings heterogeneity:
  - ▶ Derive population into 12 labour income groups, using the 10th, 20th, . . . , 90th, 99th, 99.9th percentiles, and **conditional on their gender and age group** (26-35, 36-45, 46-55, 56-65)
  - ▶ Results in a database of 400-500 Th workers observed each month, almost 1 Mil unique individuals and 90 Mil observations in total

## Empirical specification

Following **the non-overlapping dynamic structure** in Guvenen et al. (2017), we estimate:

$$\Delta y_{i,t+h} = \alpha_g^h + \beta_g^h \Delta i_t + \Gamma_g^h \Delta X_{t-1} + \epsilon_{i,t+h}, \quad (1)$$

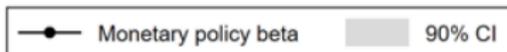
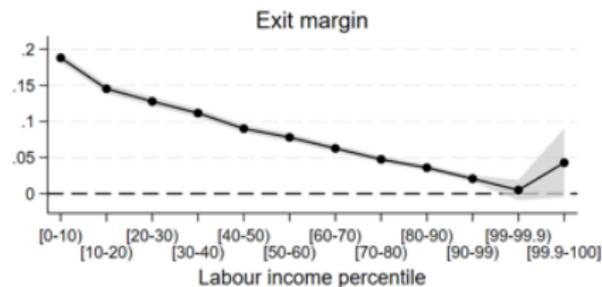
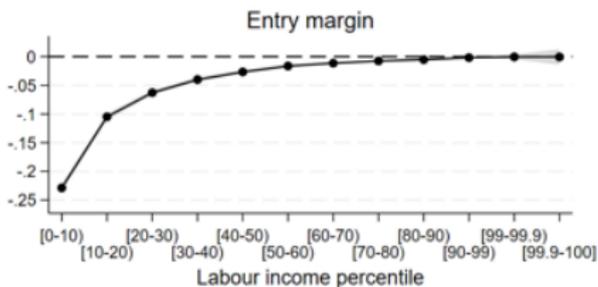
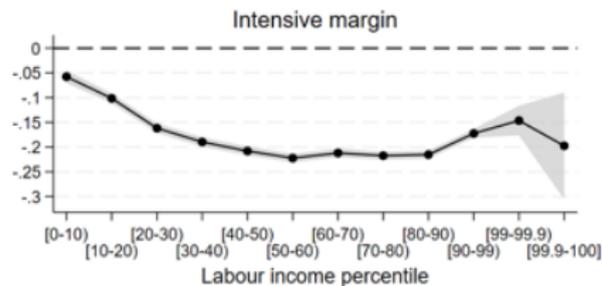
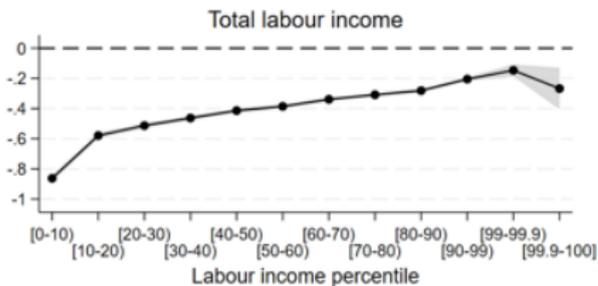
where

- $\Delta y_{i,t+h} = (y_{i,t+h} - y_{i,t}) / ((y_{i,t+h} + y_{i,t})/2)$  is the mid-point average growth of labour income of individual  $i$  at month  $t + h$ , a la Davis et al. (1996) where -2 denotes exit and 2 entry
- baseline horizon is 12 months,  $h = 12$ , robustness tests  $h = 6, 18, 24$
- $\Delta i_t$  is monetary policy shock at month  $t$
- $X_{t-1}$  denotes control variable y-o-y monthly GDP growth

Estimate equation (1) separately for each of 12 income groups  $g$ , which are defined by **the average yearly labour income** from  $t - 12$  to  $t - 1$

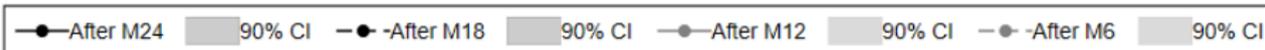
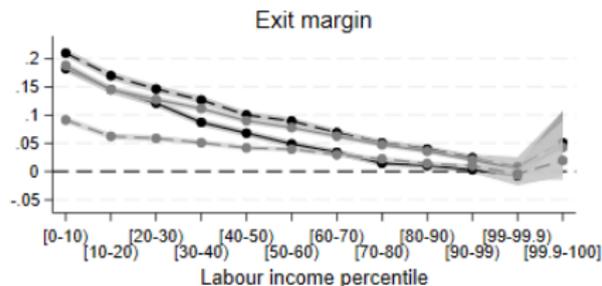
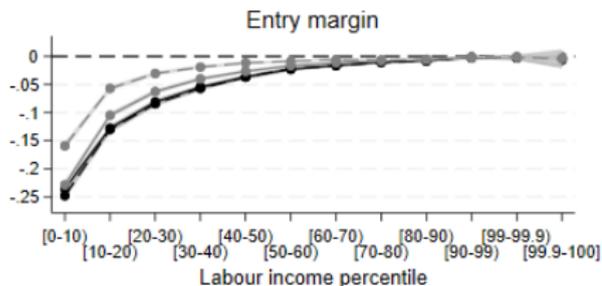
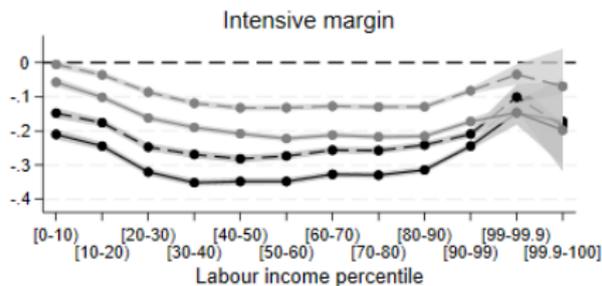
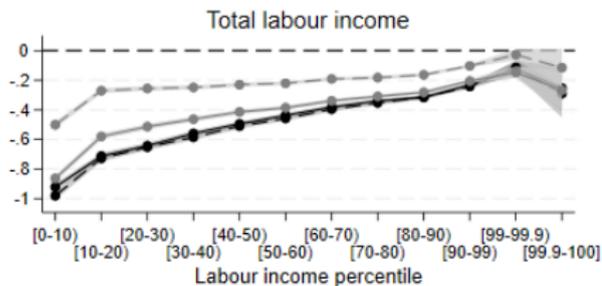
- $\beta_g^h$  captures the income group-specific effect of monetary policy and
- $\Gamma_g^h$  the income group-specific effect of past GDP growth on labour income

# Baseline results: 100bp MP impact by M12



- **Low-wage earners** affected the most, small swing up at 0.01%
- **Extensive margin** more important for low-wage earners (Hubert and Savignac 2023, Broer et al. 2022)

# Robustness: time horizon

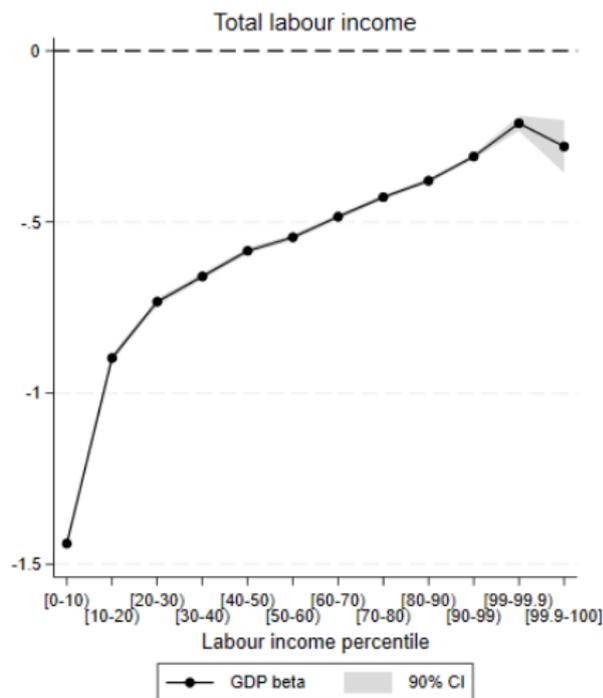
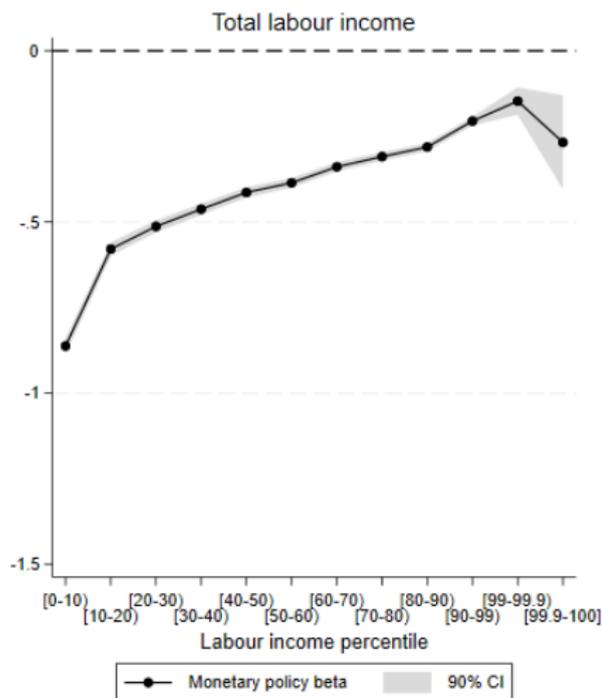


- Most of the monetary policy effect takes place **by month 12**
- **Extensive margin materialises quicker** than intensive margin

# Yearly data underestimates extensive margin: 1SD MP impact by M12

	Monthly frequency 2008M1-2023M9 (1) Total labour income	(2) Contribution of intensive margin	Yearly frequency 2008-2022 (3) Total labour income	(4) Contribution of intensive margin
[0 – 10)	-0.027***	-0.001***	-0.108***	-0.044***
[10 – 20)	-0.018***	-0.002***	-0.090***	-0.046***
[20 – 30)	-0.016***	-0.004***	-0.074***	-0.045***
[30 – 40)	-0.015***	-0.005***	-0.065***	-0.043***
[40 – 50)	-0.013***	-0.006***	-0.057***	-0.041***
[50 – 60)	-0.012***	-0.006***	-0.051***	-0.040***
[60 – 70)	-0.011***	-0.006***	-0.044***	-0.037***
[70 – 80)	-0.010***	-0.006***	-0.038***	-0.034***
[80 – 90)	-0.009***	-0.006***	-0.035***	-0.031***
[90 – 99)	-0.006***	-0.005***	-0.029***	-0.027***
[99 – 99.9)	-0.005***	-0.004***	-0.023***	-0.024***
[99.9 – 100]	-0.008***	-0.006***	-0.027***	-0.029***
All sample	-0.015***	-0.005***	-0.057***	-0.039***

# Monetary policy risk is less heterogenous than business cycle risk



# Empirical specification by inflation regime

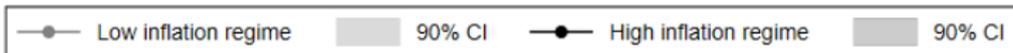
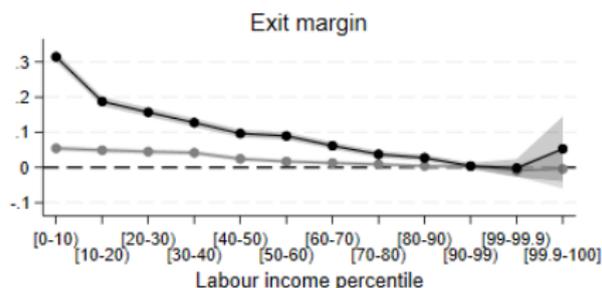
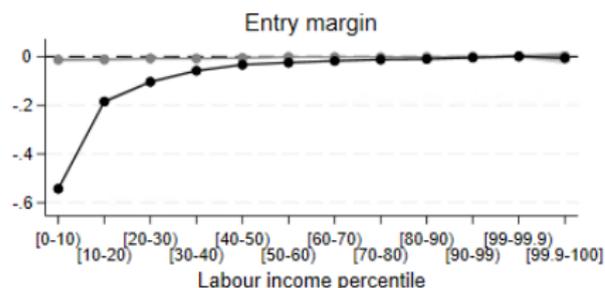
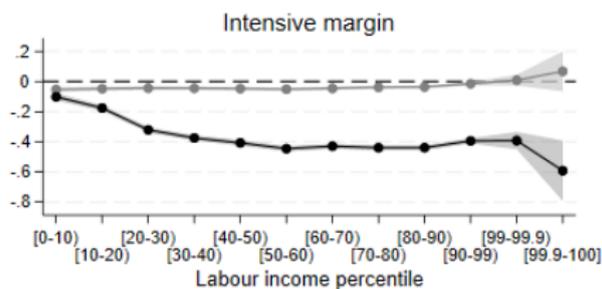
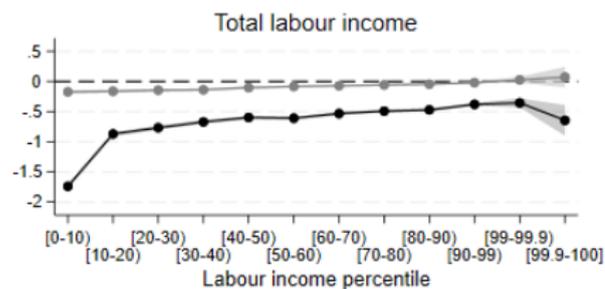
Add interaction terms of high and low inflation periods with MP and GDP

$$\Delta y_{i,t+h} = \alpha_g^h + \beta_g^{h,r} \Delta i_t \times R_t + \gamma_g^{h,r} X_{t-1} \times R_t + \epsilon_{i,t+h}, \quad (2)$$

where

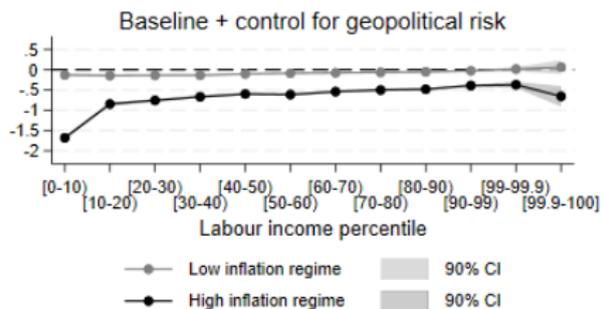
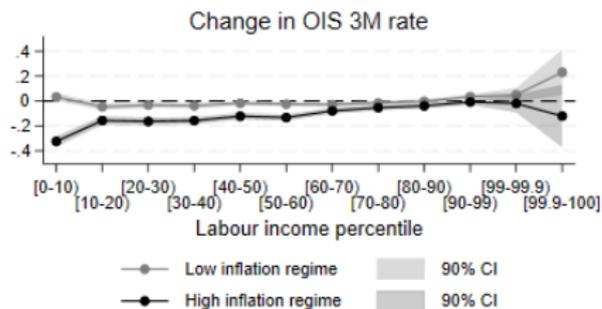
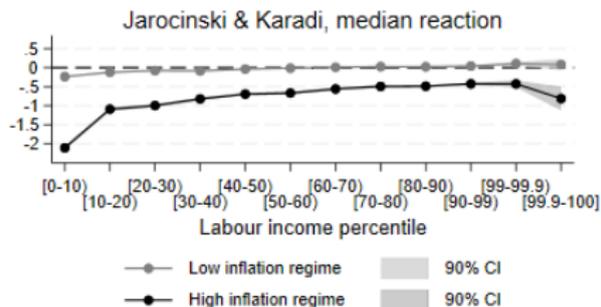
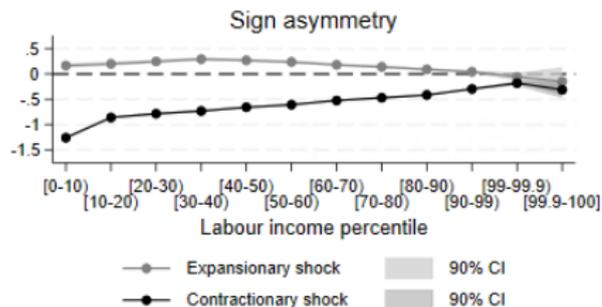
- $r$  denotes regime,  $r = L, H$ ;  $R_t = 1$  if inflation is 7% and higher and  $R_t = 0$  otherwise
- regime is defined at  $t - 1$ , **1 month before the MP shock**
- $\beta_g^{h,L}$  captures the impact of monetary policy **in the low inflation regime** and  $\beta_g^{h,H}$  **in the high inflation regime** for the income group  $g$
- $\gamma_g^{h,L}$  captures the impact of past GDP growth in the low inflation regime and  $\gamma_g^{h,H}$  in the high inflation regime for the income group  $g$ ,
  - ▶ Control for potentially heterogeneous impact of **economic growth by the regime**

# Results by inflation regime



- MP is **more powerful** in the **high-inflation** regime (Gargiulo et al. 2024, Tenreiro and Thwaites 2016)
- **Heterogeneity by regime**: regime *L* linear, regime *H* weak U-shape

# Robustness: sign asymmetry, MP shock and controls



- **Contractionary shocks** have a stronger effect (both shocks in both regimes)
- MP more powerful in **high-inflation regime** using alternative MP shocks and controlling for the geopolitical risk

## Reaction in aggregate consumption: Matching multipliers

Following Patterson (2023) the **aggregate MPC** can be disentangled into **two components**, the income-weighted average MPC and the covariance between the individual-level response to aggregate shocks and MPC:

$$MPC = \sum_j \frac{dC_j}{dE_j} \frac{dE_j}{dY} = \sum_j \frac{E_j}{Y} \frac{dC_j}{dE_j} + cov\left(\frac{dC_j}{dE_j}, \gamma_j\right), \quad (3)$$

where

- MPC denotes aggregate MPC
- $C_j$  is the consumption of household  $j$
- $E_j$  is the income of household  $j$
- $Y$  is the aggregate output
- $\frac{dC_j}{dE_j}$  is the MPC of household  $j$
- $\gamma_j = \frac{dE_j}{dY} \frac{Y}{E_j}$  is the elasticity of household  $j$  labour income to aggregate shock

# Matching MP reaction with MPC

- Match our effects of MP by income distribution with household-level estimates of MPC from **the Household Finance and Consumption Survey (HFCS)** for Estonia in 2021
  - ▶ MPC in HFCS collected by self-reported windfall gain question **at the level of household**
  - ▶ → switch to the household level,  $j$
- Steps to derive MP elasticity  $\gamma_j$  for  $j$ :
  - ▶ Estimate  $\beta_g$  for 11 labour income groups and for each gender and four age groups, merge the two highest income groups → obtain 88 different  $\beta_g$
  - ▶ Derive for each household member  $i$  their gain/loss from MP **in euros**, conditional on income, gender age
  - ▶ Sum the gains/losses to the household level and derive the hhs change in labour income due to monetary policy shock
    - ★ Keep only these hhs with at least one person with labour income and at age 26-65
  - ▶ Derive  $\gamma_j$ , the elasticity of household  $j$  labour income to MP shock

## Deriving contribution of the covariation term

- Derive the **income-weighted average MPC** as follows:

$$MPC_{iw} = \sum_j \frac{E_j}{Y} \frac{dC_j}{dE_j} = \sum_j iw_j \frac{dC_j}{dE_j}, \quad (4)$$

where

- $iw_j$  denotes labour income weight of household  $j$  that is a combination of hhs survey weight and its' contribution to total labour income
- Derive the **total MPC** to monetary policy shock:

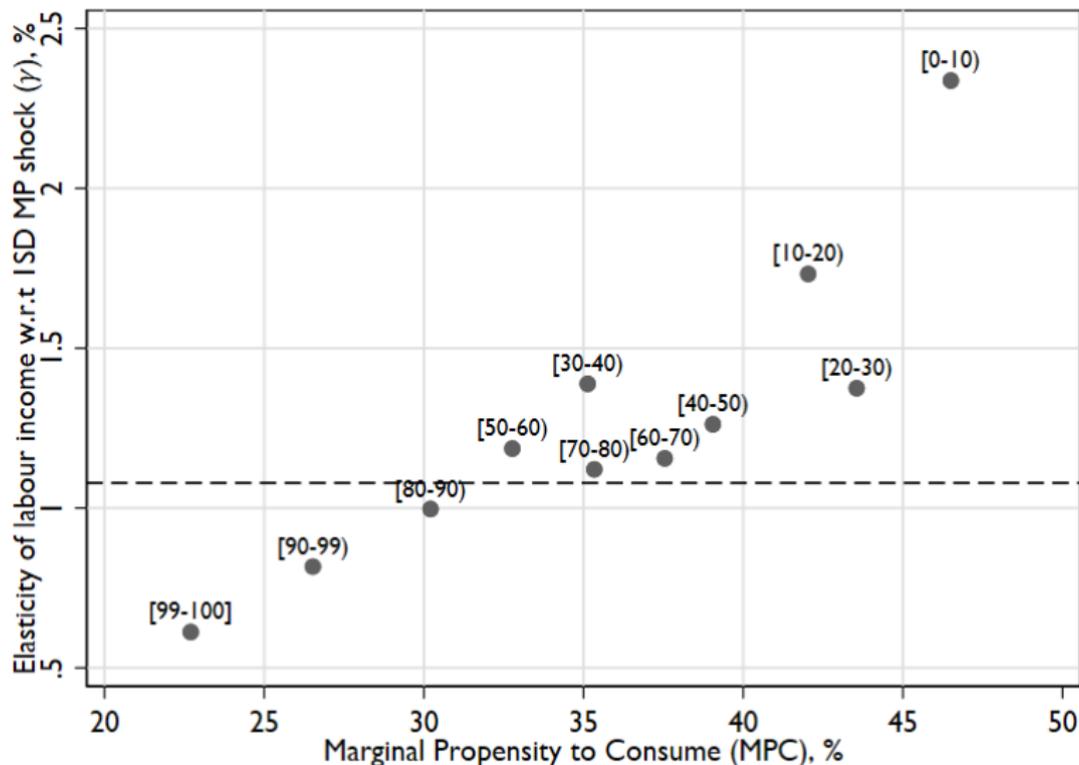
$$MPC = \sum_j iw_j \frac{\gamma_j}{\bar{\gamma}} \frac{dC_j}{dE_j}, \quad (5)$$

where

- $\frac{\gamma_j}{\bar{\gamma}}$  denotes household  $j$  relative response to monetary policy shock, i.e. the ratio of household  $j$  response  $\gamma_j$  to income-weighted average response of all households  $\bar{\gamma}$
- The **contribution of the covariation term** can be found as:

$$\text{cov}\left(\frac{dC_j}{dE_j}, \gamma_j\right) = MPC - MPC_{iw}, \quad (6)$$

# Covariation btw MP reaction and MPC



Note: Horizontal dashed line refers to the income-weighted average elasticity.

# Aggregate implications

Earnings percentile	MPC	(1) Income weight	(2) MP effect weight	(3) MP weight by regime Low	(4) MP weight by regime High
[0 – 10)	0.465	0.013	0.026	0.038	0.028
[10 – 20)	0.420	0.033	0.052	0.084	0.047
[20 – 30)	0.436	0.046	0.059	0.088	0.054
[30 – 40)	0.351	0.061	0.078	0.113	0.071
[40 – 50)	0.391	0.073	0.085	0.114	0.079
[50 – 60)	0.328	0.086	0.095	0.098	0.093
[60 – 70)	0.375	0.105	0.112	0.106	0.111
[70 – 80)	0.353	0.130	0.135	0.134	0.133
[80 – 90)	0.302	0.169	0.155	0.131	0.157
[90 – 99)	0.265	0.229	0.172	0.093	0.186
[99 – 100]	0.227	0.056	0.032	0.000	0.040
Weighted Aggregate MPC		0.328	0.347	0.367	0.345
Contribution of covariation			5%	11%	5%
Consumption response to MP shock		0.49%	0.52%	0.11%	0.83%
Income Gini response to MP shock		-	0.35%	0.15%	0.42%

# Take-aways

- 1 Who's earnings are affected the most by monetary policy?
  - ▶ **Low-income workers** → inequality increases with tightening and declines with expansionary policy
  - ▶ **Extensive margin** dominant for low-income workers - transitions into and out of employment

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- 2 In which regime is the monetary policy the most powerful?
  - ▶ In **the high inflation** regime
  - ▶ Suggests steeper Phillips curve, stronger price rigidity and increasing degree of attention during high inflation periods

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- 2 In which regime is the monetary policy the most powerful?
  - ▶ In **the high inflation** regime
  - ▶ Suggests steeper Phillips curve, stronger price rigidity and increasing degree of attention during high inflation periods
- 3 How much does the earnings heterogeneity channel matter for the transmission of MP to **aggregate consumption**?
  - ▶ On average **5%**
  - ▶ Amplification is stronger in low inflation regime, 11% vs 5%
  - ▶ ... but the effect on consumption and inequality is stronger in high inflation regime due to more powerful MP in this regime

THANK YOU!

Comments and questions:

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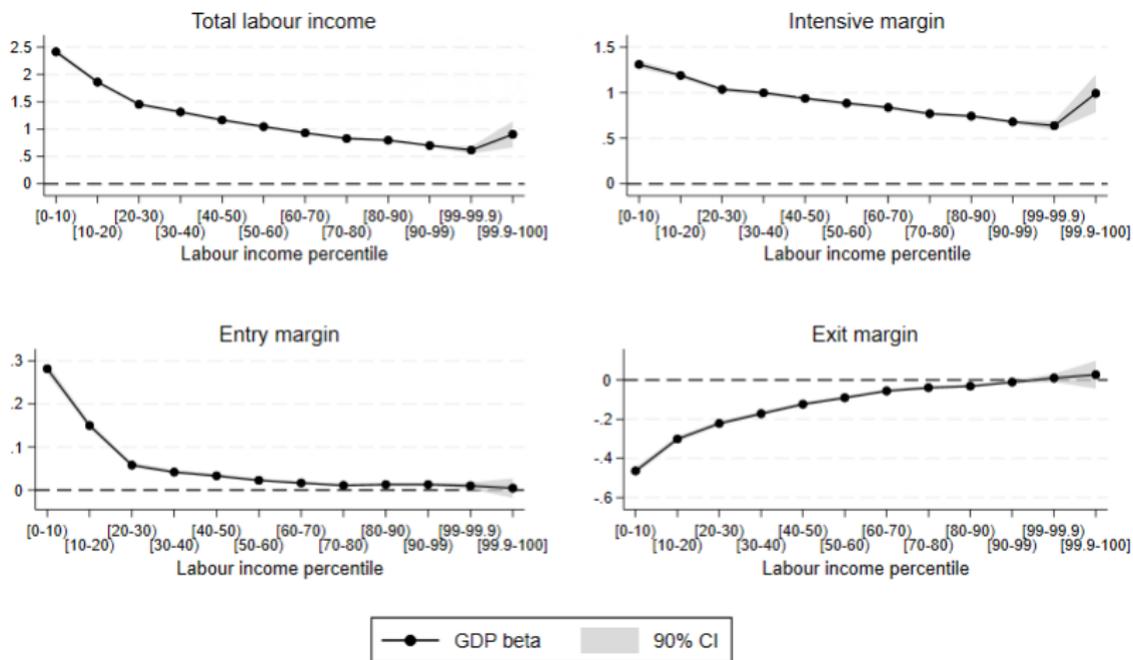
# Descriptives on earnings, 2008M1-2023M9

Labour income p	(1) Mean income in 2015 prices	(2) Mid-point average income growth over 12 months	(3) Intensive margin growth over 12 months	(4) Entry rate over 12 months	(5) Exit rate over 12 months	(6) Number of observations
[0 – 10)	548.9	0.351	0.140	0.316	0.175	11,431,991
[10 – 20)	564.5	0.014	0.073	0.110	0.130	8,933,066
[20 – 30)	641.8	-0.053	0.045	0.066	0.111	8,677,750
[30 – 40)	747.1	-0.088	0.023	0.043	0.096	8,534,858
[40 – 50)	862.1	-0.101	0.010	0.029	0.084	8,494,491
[50 – 60)	992.0	-0.109	0.004	0.019	0.075	8,465,227
[60 – 70)	1147.2	-0.111	0.000	0.013	0.068	8,453,494
[70 – 80)	1349.0	-0.114	-0.005	0.009	0.063	8,446,902
[80 – 90)	1670.5	-0.117	-0.011	0.006	0.060	8,455,514
[90 – 99)	2558.4	-0.127	-0.021	0.004	0.058	7,617,517
[99 – 99.9)	5196.1	-0.138	-0.040	0.005	0.055	764,947
[99.9 – 100]	11183.0	-0.186	-0.062	0.006	0.070	86,012
All sample	1135.1	-0.032	0.022	0.070	0.095	88,361,769

# External validity

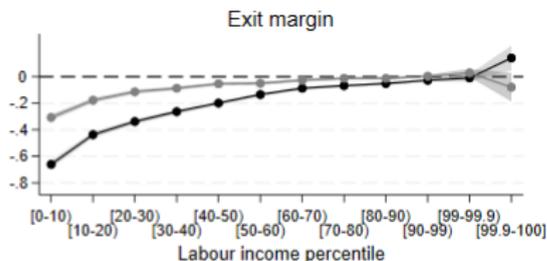
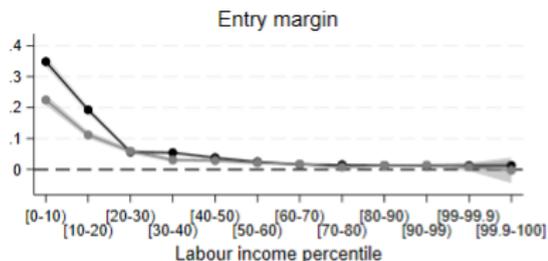
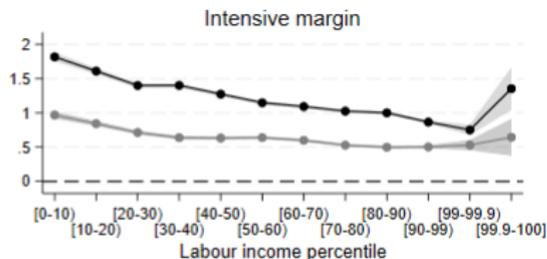
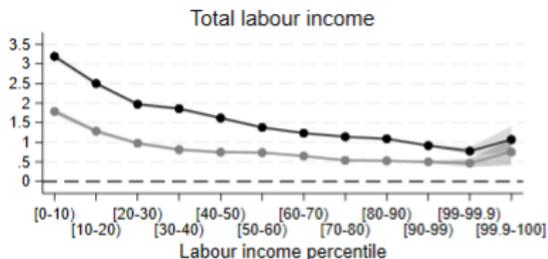
- Estonia is a member of the euro area since 2011 and imported **ECB's monetary policy** before that (Estonian crown was pegged to euro)
- Estonian **labour market has high flexibility** and is much closer to the US than the labour markets of related papers on Scandinavian or French and German data
- **Monetary policy has a stronger effect** than in other euro area countries (Almgren et al. 2022), e.g. due to flexible interest rates, high share of liquidity constrained hhs
- As an external validity exercise, we **derive GDP betas** in our data using the approach of Guvenen et al. (2017)
  - ▶ Heterogenous response of growth of individual earnings on aggregate GDP growth
  - ▶ ... dependent past labour income groups
  - ▶ U-shaped reaction in the US, low-wage workers gain the most and lose the most from aggregate fluctuations

# GDP betas - heterogenous gains from economic growth



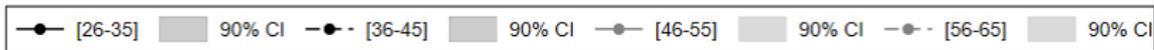
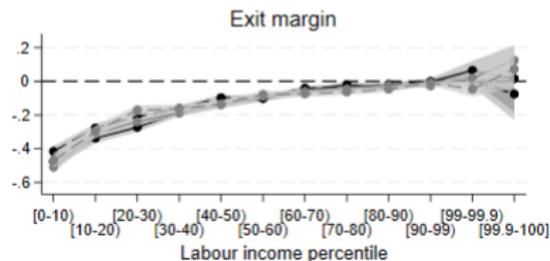
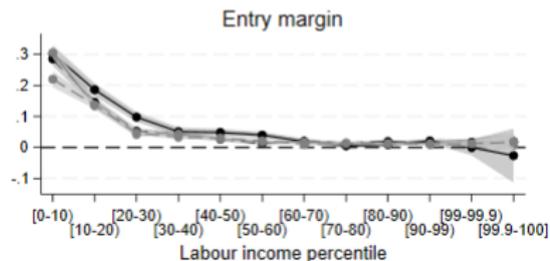
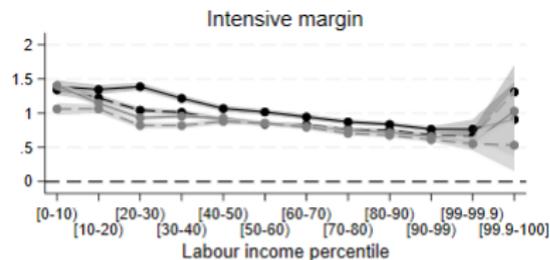
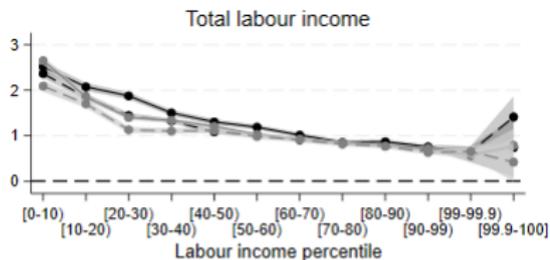
- Low-wage earners get the most out of economic growth
- Weak U-shape, the top 0.1% earners obtain increasing gains

# GDP betas - men vs women



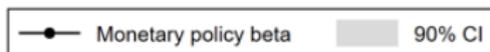
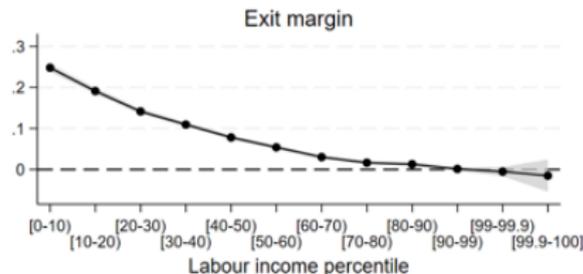
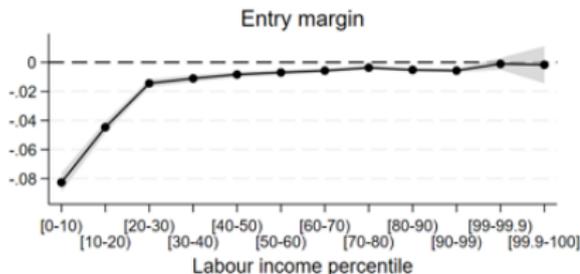
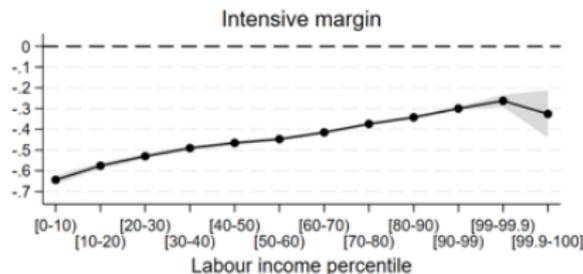
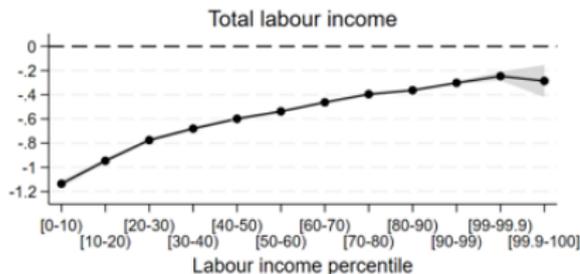
- Men gain the most, especially at the lower end
- Men's higher sensitivity to BC is similar to US (Guvenen et al. 2017)

# GDP betas - young vs old



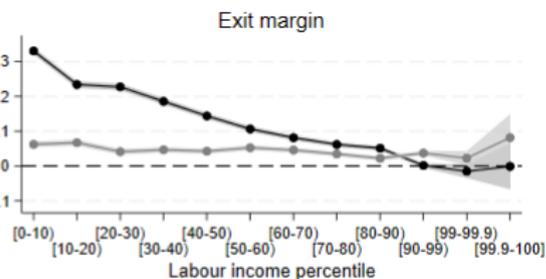
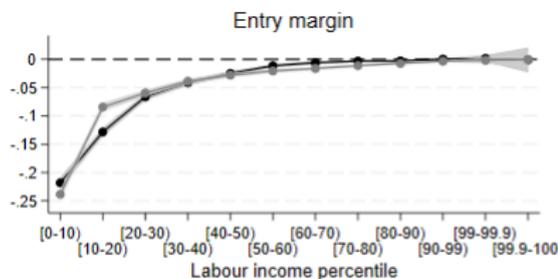
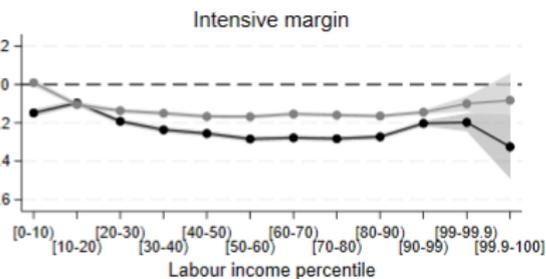
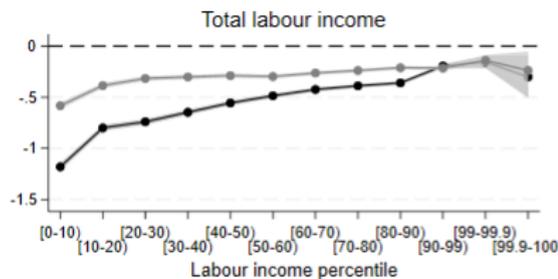
- Little differences by age group
- Old people tend to gain the least, similar to US (Guvenen et al. 2017)

# MP impact by M12: yearly data

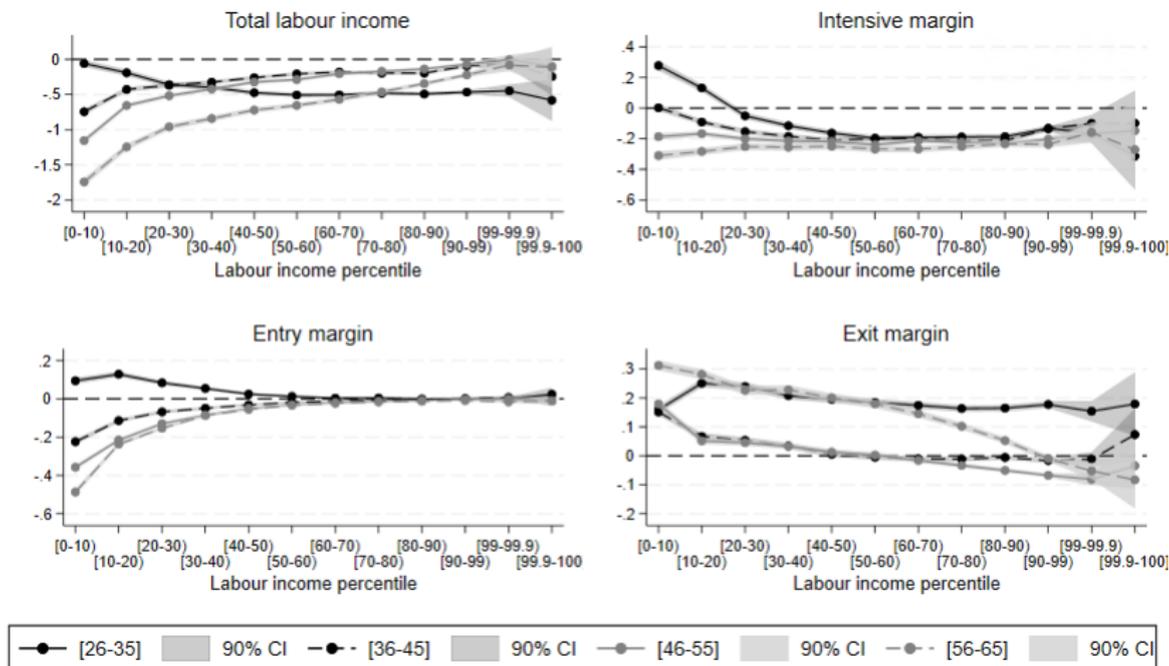




# The effect of monetary policy shock by gender



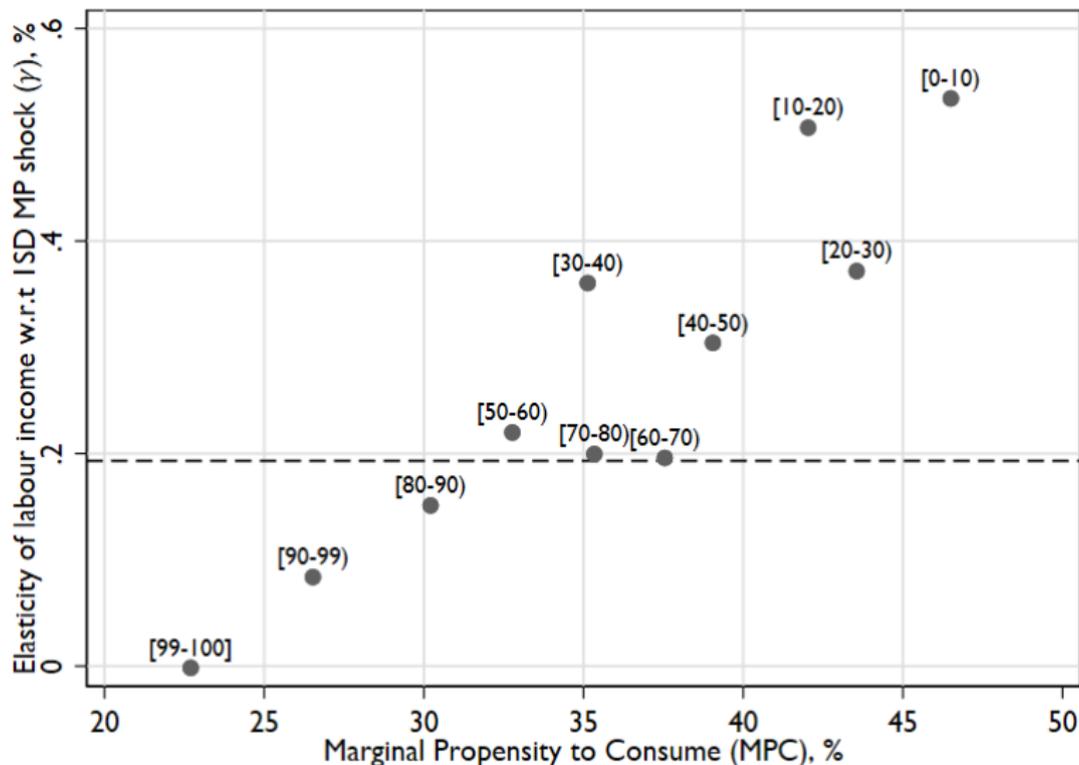
# The effect of monetary policy shock by age



# Monetary policy effect by regime, 2008M1-2023M9

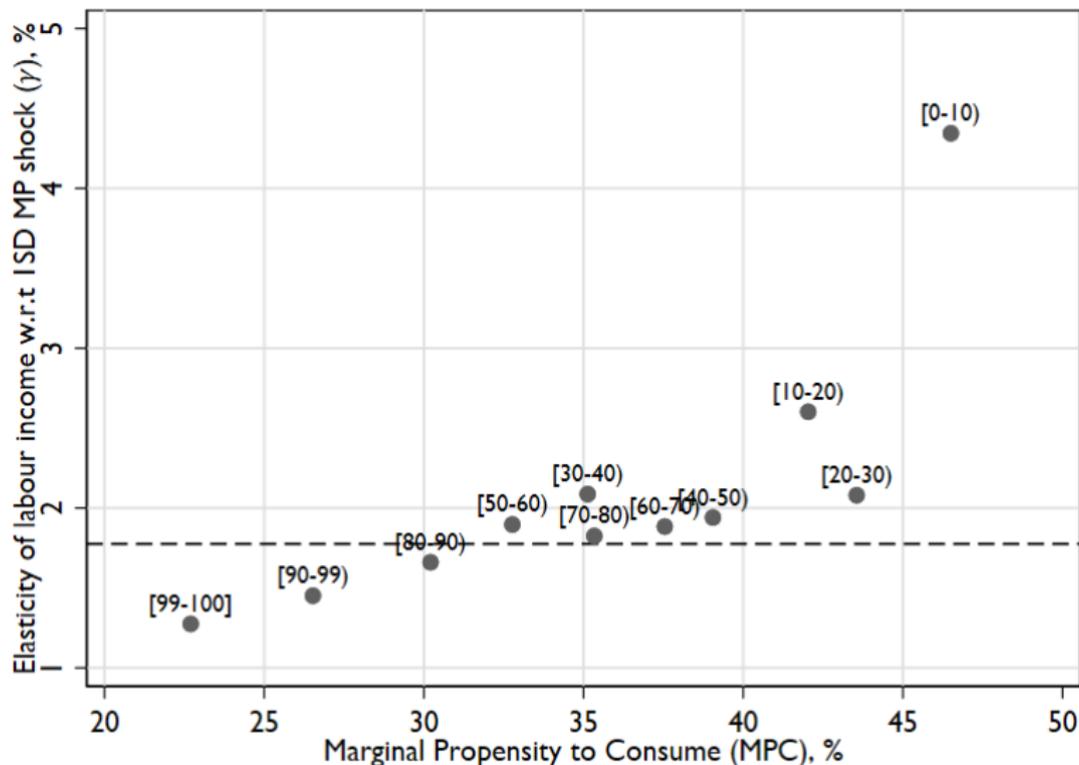
	Low inflation		High inflation	
	(1) Total labour income	(2) Intensive margin	(3) Total labour income	(4) Intensive margin
[0 – 10)	-0.005***	-0.002***	-0.055***	-0.003***
[10 – 20)	-0.005***	-0.001***	-0.028***	-0.006***
[20 – 30)	-0.005***	-0.001***	-0.024***	-0.010***
[30 – 40)	-0.004***	-0.001***	-0.021***	-0.012***
[40 – 50)	-0.003***	-0.001***	-0.019***	-0.013***
[50 – 60)	-0.003***	-0.002***	-0.019***	-0.014***
[60 – 70)	-0.002***	-0.001***	-0.017***	-0.014***
[70 – 80)	-0.002***	-0.001***	-0.016***	-0.014***
[80 – 90)	-0.001***	-0.001***	-0.015***	-0.014***
[90 – 99)	-0.001*	0.000**	-0.012***	-0.012***
[99 – 99.9)	0.001	0.000	-0.011***	-0.012***
[99.9 – 100]	0.002	0.002	-0.020***	-0.019***
All sample	-0.003***	-0.001***	-0.024***	-0.012***

# Covariation btw MP reaction and MPC: low inflation



Note: Horizontal dashed line refers to the income-weighted average elasticity.

# Covariation btw MP reaction and MPC: high inflation



Note: Horizontal dashed line refers to the income-weighted average elasticity.

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