

Unequal Consumption and Savings in the Heterogeneous-Agent Model

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Household i:

Purchases of services:

$$y_i = \sigma(x) \left[f(x) k_i + \frac{w_i}{p} \right]$$

where $\sigma(x) = \frac{x^\varepsilon [1 + \tau(x)]^{1-\varepsilon}}{1 + x^\varepsilon [1 + \tau(x)]^{1-\varepsilon}}$, $\sigma(x) \in (0, 1)$

Real wealth holdings (savings)

$$\frac{m_i}{p} = [1 - \sigma(x)] \left[f(x) k_i + \frac{w_i}{p} \right]$$

Consumption: $c_i = y_i / [1 + \tau(x)]$

Visits: $v_i = y_i / q(x)$

Household i with more initial wealth (w_i)

- More consumption (c_i)
- More purchases/expenditure (y_i)
- More visits (v_i)
- More final real wealth/savings (m_i/p)

Same results for household i with higher income (k_i)

Marginal propensity to spend (MPS)

Marginal propensity to save