# Consumption Smoothing and Borrowing Constraints: Evidence from Household Surveys of Iran

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### Summary of Paper

- Introducing modern macro-financial models to the study of the Iranian economy
- Stochastic Euler equation estimation for public/private sector employes (as well self-employed and unemployed)

#### • Policy relevance

- Optimal intervention for demand stimulation
  Agents' consumption response to policy-induced changes in income
- Estimation of the welfare costs of financial underdevelopment
- Implicit value of public sector employment contracts

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### Summary of the Paper: Consumption, Income, and Wealth Summary of the Paper: Rational Expectations and Consumption • Keynes: consumption is a fixed proportion of disposable income • Euler equation: $u'(c_t) = \beta(1+r)[u'(c_{t+1}) + \epsilon_{t+1}]$ • Permanent income hypothesis (PIH): people's consumption is a function of their life-time income and not today's income • $\epsilon_{t+1} = \frac{1}{\beta(1+r)}u'(c_t) - c_{t+1}$ Precautionary saving • Consumer problem $V = \max_{c} \mathbb{E}_{t} \sum_{t}^{\infty} u(c_{t}) e^{-\beta t} dt$ • Rational expectations requires that $\epsilon_{t+1}$ be unpredictable given the • s.t. $W_{t+1} = (1+r)(W_t + y_t - c_t)$ information set at time t• Optimality conditions: • Empirical studies show that $\epsilon_{t+1}$ is indeed predictable using variables • u'(c) = V'(W)such as income! • Euler equation: $u'(c_t) = \beta \mathbb{E}_t[u'(c_{t+1})(1+r)]$

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## Comment 2: Response of Consumption to Income Shocks

- Should consumption be more or less volatile than income?
- Naive interpretation of PIH: current income shocks shouldn't matter for consumption
- Angus Deaton: depends on the persistence of shocks
  - i.i.d: current income has no effect on the permanent income
  - Mean-reverting: shocked are partially relevant for the permanent income

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- Random walk: shocks are permanent
- Long-run risks: shocks to the drift of the income process

### Comment 3: Empirical Setup

- Time-series properties of the income process
  - Persistence of income shocks across different groups
  - Effect of high discount rates in Iran: lowering the effective horizon and making current income shocks more relevant for the present value of income
- Econometrics:
  - Government employes: a much stable income profile
    - Identification powerLower motives for precautionary saving
  - Lower  $R^2$  of the Euler equation for public-sector employees

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Comment 5	· Micro	Evidence

- Test the response of consumption to positive transitory shocks to the borrowing capacity
- An ambitious step for future

### **Concluding Comments**

- Important paper, having the potential to generate a stream of follow-up research projects
- Sharp and relevant empirical result
- Possible benefits from additional developments:
  - Smoothing over time and state
  - Durable and non-durable consumption
  - Short-term and long-term credit
  - Time-series properties of income and consumption
  - Forward-looking income measures
  - Welfare loss estimation

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