

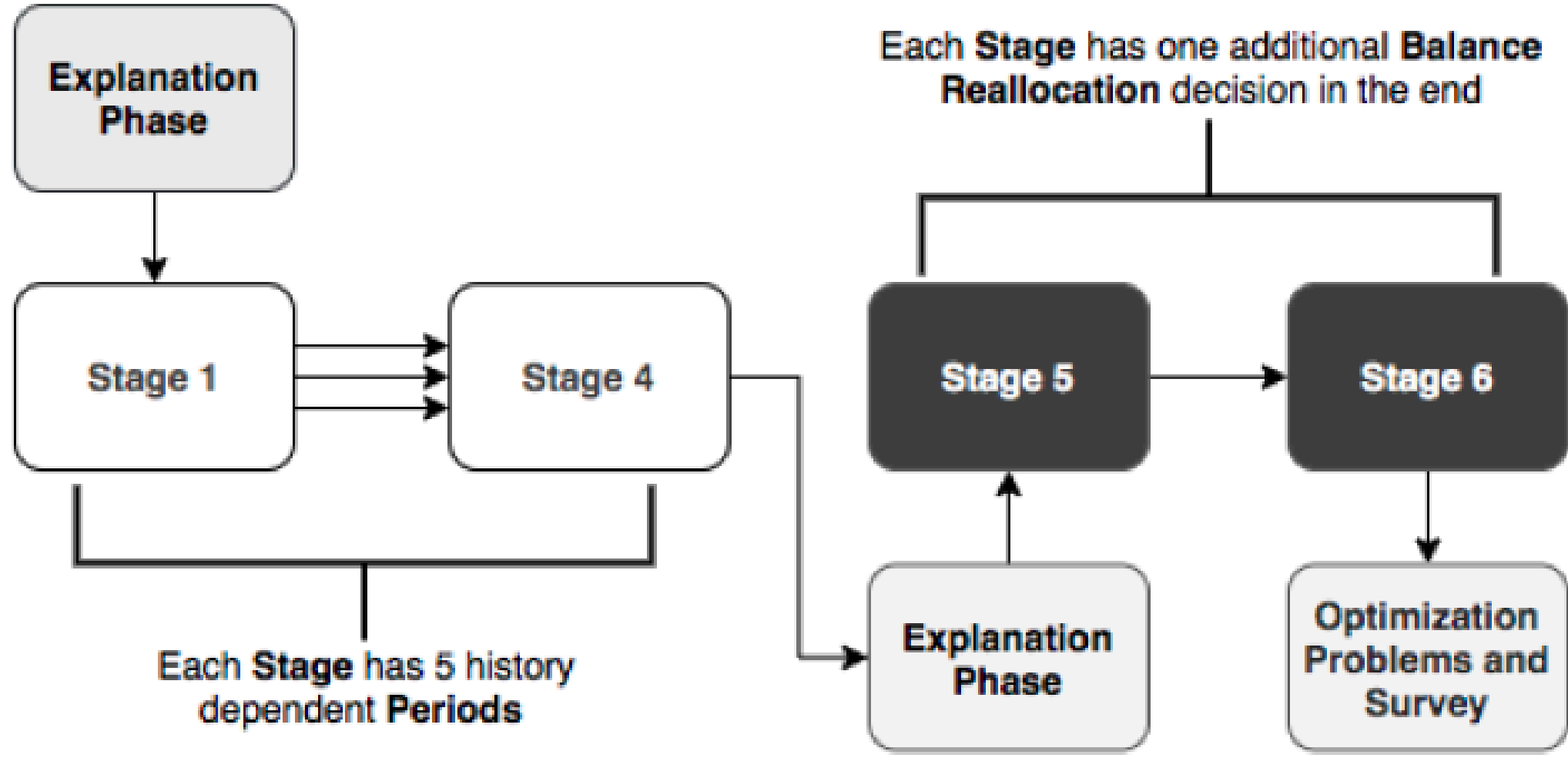
**Authors:** Hakan Özyılmaz (Toulouse School of Economics), Guangli Zhang (Saint Louis University)

**THIS PAPER**

- We study people’s debt repayment decisions in a controlled lab environment with clearly defined optimal rules and real incentives.
- We find about 20% of the payments are made optimally, and subjects rely on Balance information as much as Interest Rates. We then ask the following questions:
- Can standard explanations such as **Financial Literacy**, **Limited Attention on Prices**, or **Incentives** explain this failure? **No**.
- Do people rely on balance information in **Investment setting**? **No**.
- Can **Mental Accounting** (i.e., preference for separate evaluation) explain our findings? **Yes**.

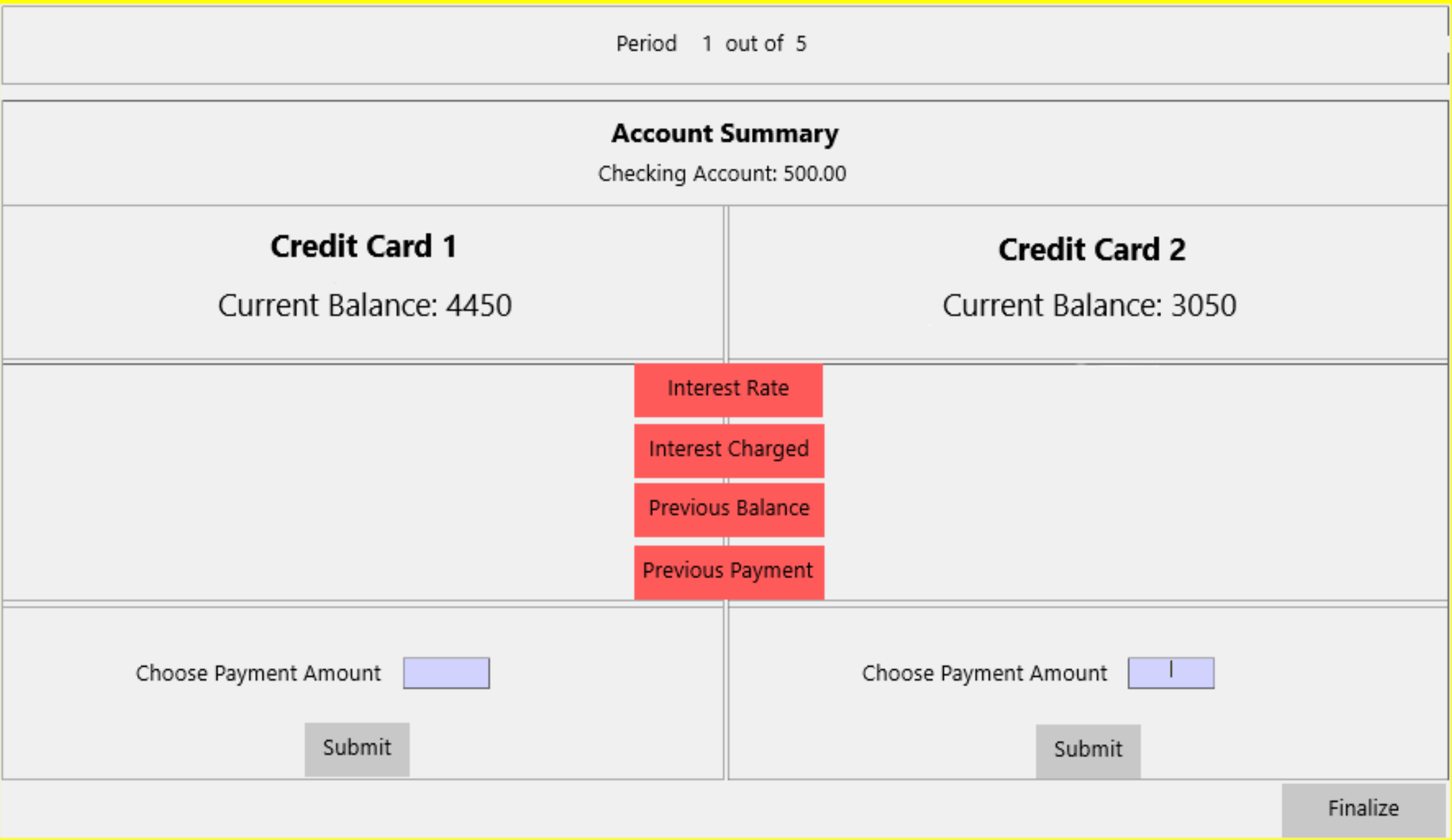
**EXPERIMENT DESIGN**

**Figure 1: Experiment Timeline**



Notes: The balance reallocation decision asks subjects to transfer their balances between two accounts at the end of stages 5 and 6.

**Figure 2: Experiment Interface**



Notes: Apart from Debt Balance, only one sets of information (e.g., Interest Rate) can be displayed at the same time. Subjects have to use up the entire 500 every period.

**RESULTS OVERVIEW**

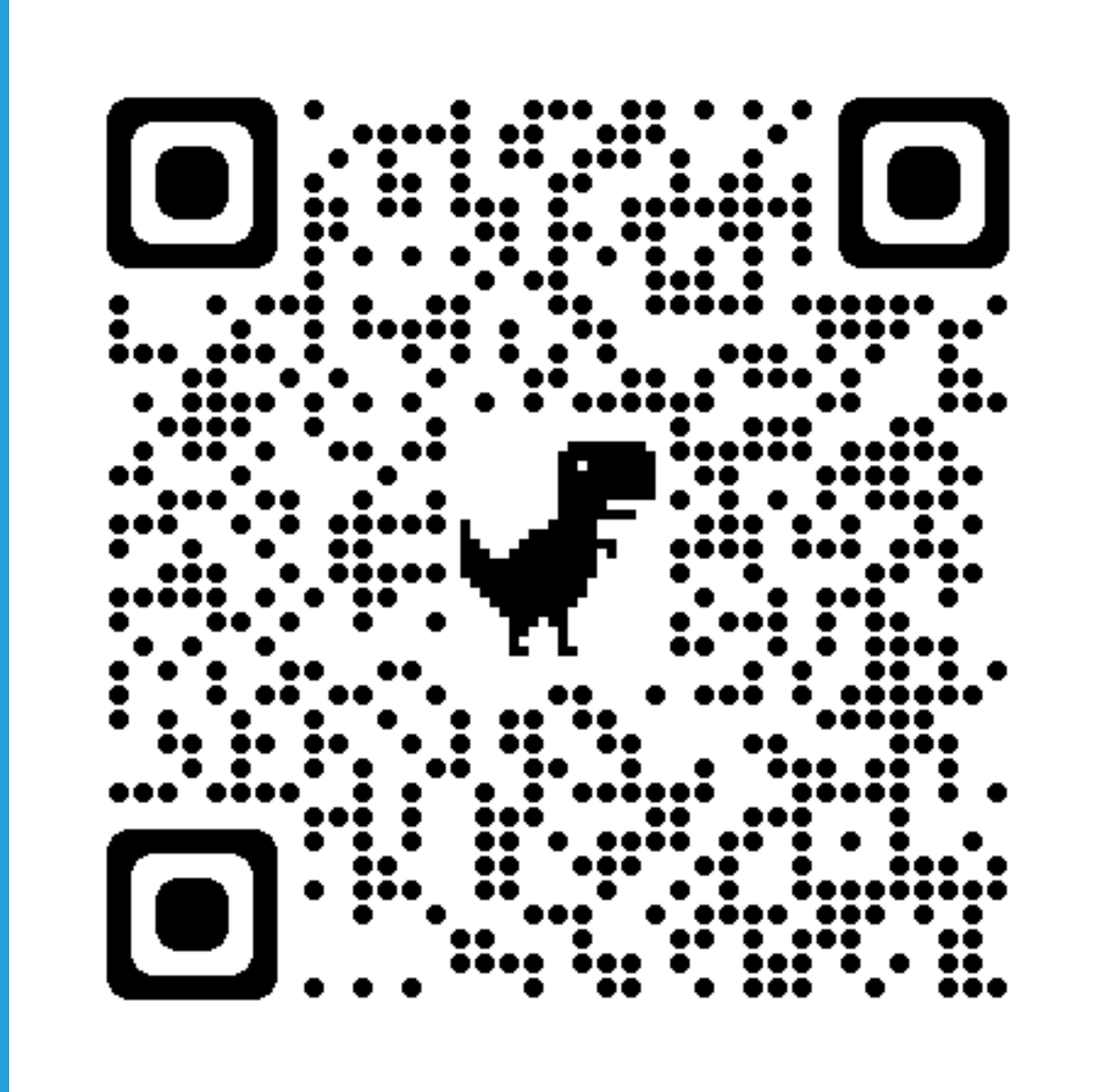
- **Standard Explanations** do not fully explain the puzzle.
- **Investment Frame** removes balance dependence.
- **Mental Accounting** can explain 50% of the behavior
  - > Mental Accountant: has a well-defined preference over debt levels on each card (i.e., allocations pass a strict GARP test), but treats debt on each card as non-fungible (i.e., how the total debt is distributed over two cards matters)

# The Debt Payment Puzzle: An Experimental Investigation

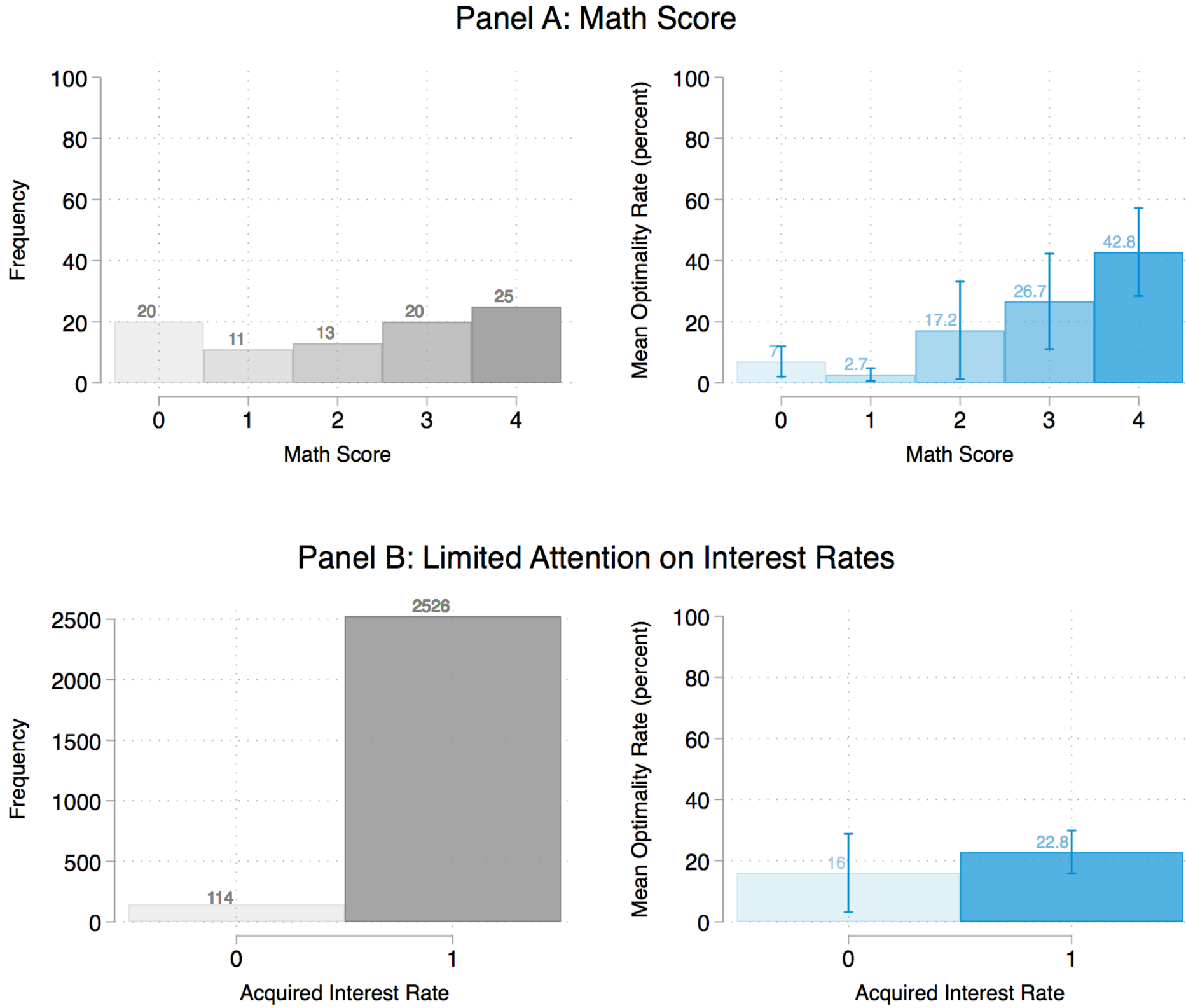
People still make mistakes and rely on **debt balance information** when making repayments in our simplified setting.

However, this reliance on irrelevant balance information does not exist in **investment decisions**.

We find **mental accounting** rationalizes balance dependence in the debt domain.

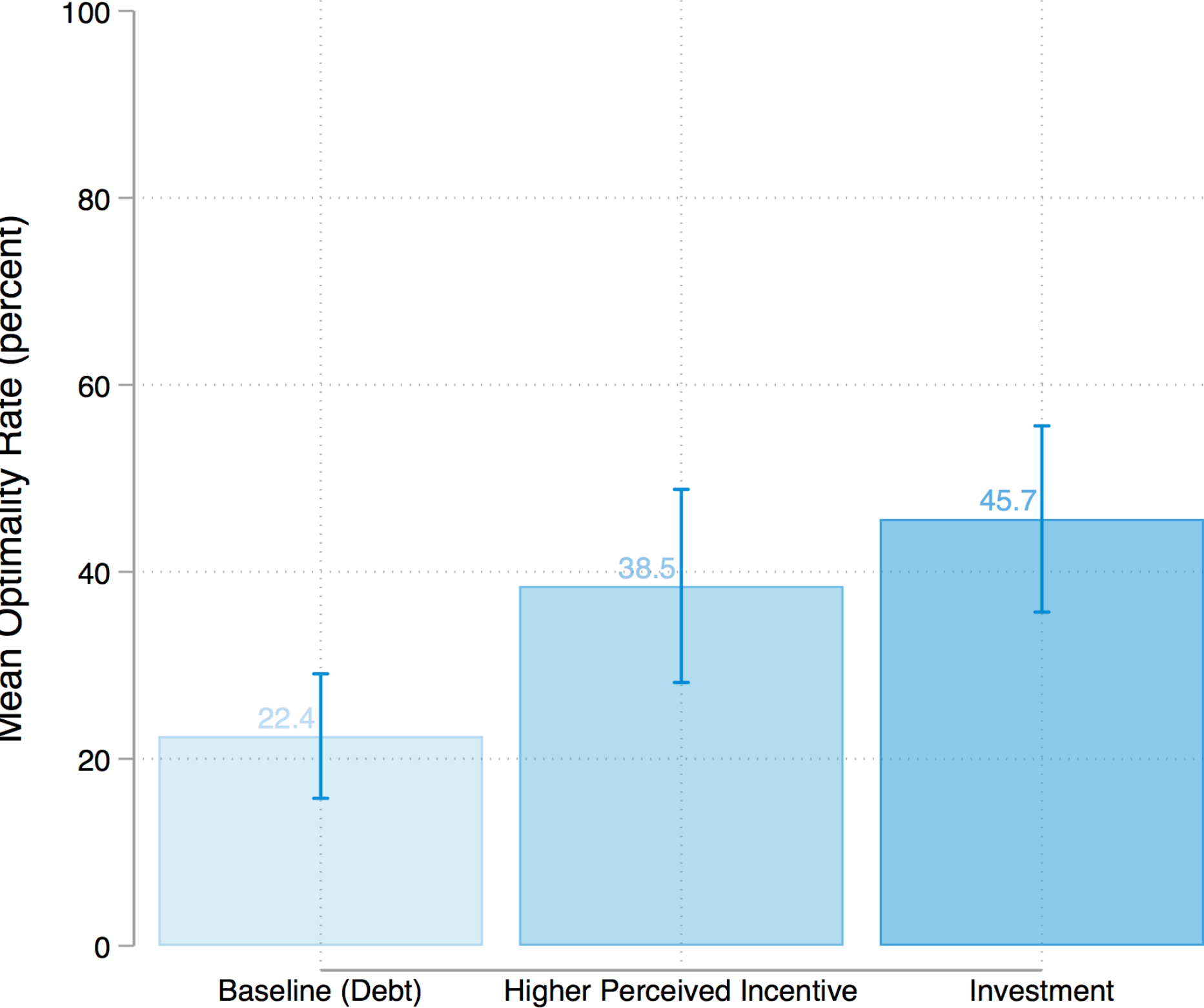


**Figure 3: The Roles of Attention and Financial Literacy**



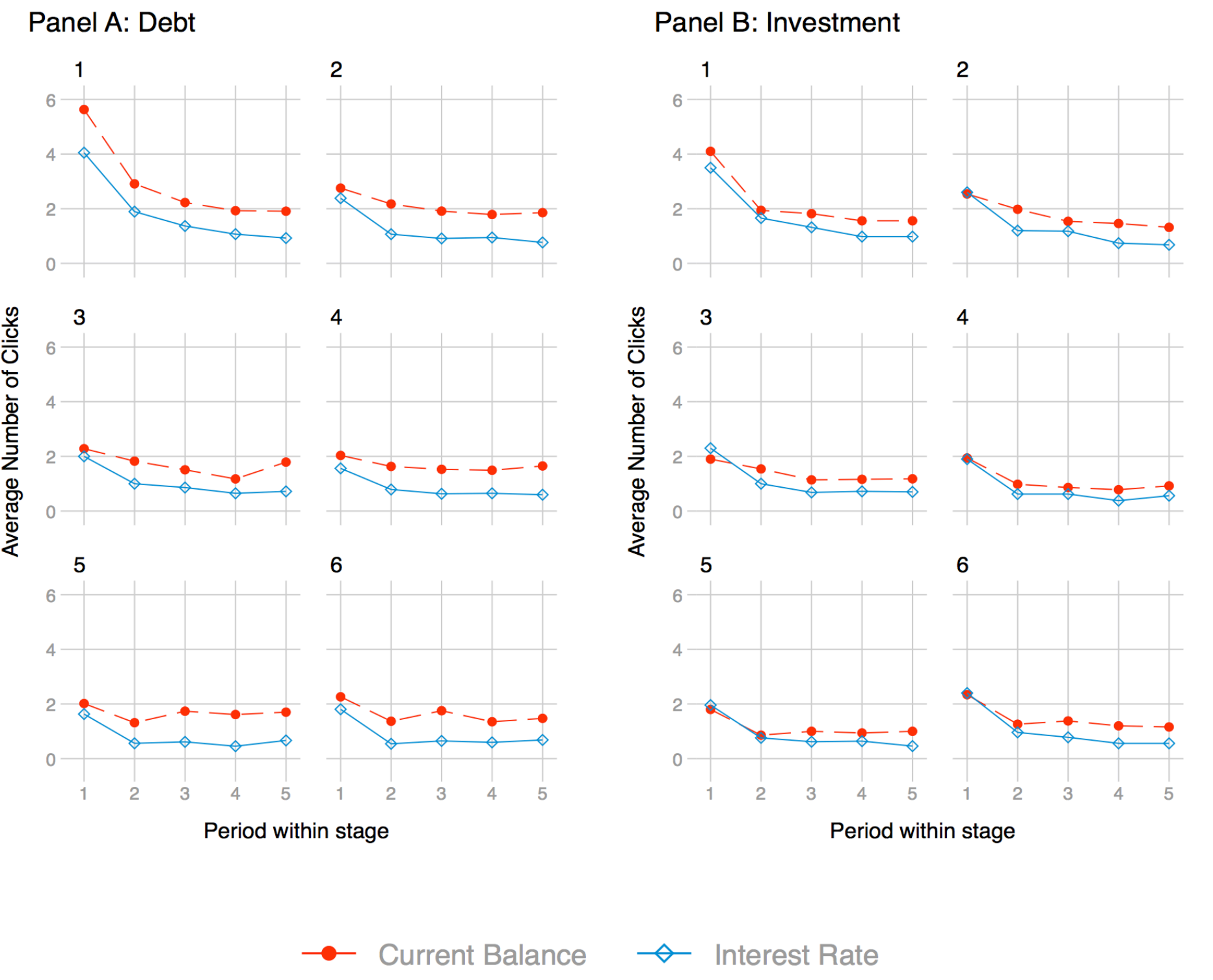
Notes: A combination of Financial Literacy and Limited Attention on Prices do not fully explain this failure.

**Figure 4: Optimality Rate Across Treatments**



Notes: Although both Higher Perceived Incentive and Investment improve allocation decisions, subjects still heavily rely on balance information under Higher Perceived Incentive.

**Figure 5: Average Click Counts Across Frames**



Notes: From our choice processing data, we find consistent evidence that subjects on average click balance information more frequently under the Debt Frame (Panel A, our Baseline Treatment).