Observing Unobservables: Identifying Information Asymmetries with a Consumer Credit Field Experiment

Dean S. Karlan
Princeton University

Jonathan Zinman
Federal Reserve Bank of New York*

* Views expressed are those of the authors and do not necessarily represent those of the Federal Reserve System or the Federal Reserve Bank of New York.
Substantive Motivations

• Extensive theoretical literature on information asymmetries in credit markets
  – Credit market failures often assumed to exist, yet little direct evidence (other than the poor not having credit).
  – We have relatively little empirical evidence on existence & impacts of specific private information problems
    • In credit markets especially (Chiappori and Salanie)
    • Nobel Committee citation in 2001
  – Do adverse selection & moral hazard matter in practice?
• Do lending relationships mitigate asymmetric information problems?
• Are there gender differences?
Solving Credit Constraints

• 3 necessary steps for policy prescriptions for credit markets for credit constrained
  – First: establish if there are indeed information asymmetries (this is what this paper does)
  – Second: assess whether certain interventions (e.g., group liability) help alleviate information asymmetries
  – Third: assess the impact of relaxing credit constraints.
Our Approach

- A field experiment that:
  - Is motivated by specific models of private information.
  - Is designed to identify separately “selection” (ex-ante) from “incentive” (ex-post) effects.
  - We randomize interest rates along 3 dimensions:
    - “Offer” Interest rate (selection)
    - “Contract” interest rate (repayment burden/moral hazard)
    - Interest rate on future loans (moral hazard)
Key Findings

• Adverse selection on interest rates
  – important for women
  – non-existent for men

• Repayment burden on interest rates
  – strong for men
  – non-existent for women

• Moral hazard on dynamic incentives (men)

• Economic significance? yes
  – Perhaps 20% of default due to info asymmetries.