

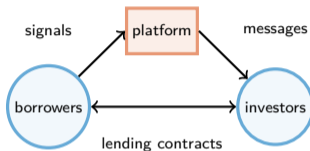
Optimal Credit Scores Under Adverse Selection

Nicole Immorlica, Andre Sztutman and Robert Townsend

Motivation

- Better data, better outcomes in financial markets?
- If adverse selection is a major concern, not necessarily!
- How can data sharing be designed to benefit all potential borrowers?
- Selective disclosure credit scores

Model



Theoretical results

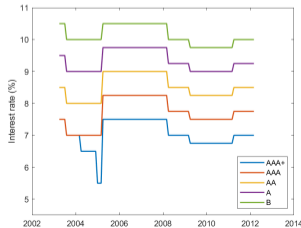
Optimal disclosure policy \Rightarrow three rules-of-thumb

- 1 Markets with higher prices should have higher price elasticities of the expected value for investors*;
- 2 When signals are combined, the signal with the high full disclosure price has a low elasticity*;
- 3 Each message should combine one or two signals.

Empirical application

- Rural credit markets in Thailand. Thin formal segment. Extensive data from Townsend Thai Project.
- BAAC interest rate rules updates \Rightarrow source of exogenous variation in interest rates
- Wager and Athey (2018) causal forests \Rightarrow joint distribution of values and signals
- Full disclosure to the optimal policy: gains \$3 per household per month

BAAC Interest rate structure for farmers



Optimal policy vs full disclosure

