

Authors

Xavier Giné World Bank

Jessica Goldberg University of Maryland

Dean Yang University of Michigan

> American Economic Review 2012, 102(6): 2923-2954 http://doi.org/10.1257/arc.102.6.2623

> > Credit Market Consequences of Improved Personal Identification: Field Experimental Evidence from Malawi

> > > By Xavier Gené, Jessica Goldberg, and Dean Yang

We implemented a randomized field experiment in Malawi examining borrower responses to being fingerprinted whom applying for loans. This intervenision improved the lender's ability to implement dynamic repayment incentives, allowing it to withhold future loans from past defaulters while researching good borrowers with better loan terms. As predicted by a simple model, fingerprinting led to mobistantially higher repayment rates for borrowers with the highest ex onte default risk, but had no effect for the rest of the borrowers. We provide unique evidence that this improvement in regayment rates is accompanied by behaviors consistent with less adverse selection and lower moral heaved. [ELD 14, D82, CQ2, O12, O16]

Imperfections in credit markets are widely seen as key barriers to growth (King and Levine 1993). Among such imperfections, asymmetric information problems play a prominent role, as they limit the ability of borrowers to commit to carrying out their obligations under debt contacts. Borrowens cannot credibly reveal their borrower type (adverse selection), promise to exert sufficient effort on their enterprises (ex ante moral hazard), or promise to repay loans upon realization of enterprise profits, even when such profits are sufficient for repayment (ex post moral hazard). Lenders seek to mitigate asymmetric information problems by imposing collateral requirements, engaging in costly screening of borrowers prior to approval, and, when a credit reporting system is available, sharing credit information with

"Gind Development Economics Research Group, World Bank, and Bancas for Recomb and Economics, Analysis of Development, SISBH Stan TWA, Marking MC, 1974, Workshippon, DE, 19843 (a. and at, path with edited has a first of Debugsters of Economics, University of Maryland, M150C Tydiags Had, Codage Park, MD, 2002; and gradity principation annuals, Jung Food School of Public Policy and Department of Economics, University of Holisgon and Bancas of Research and Economic Analysis of Economics, 1350 well Had, 1935. Stant Stant Ass. Astroc. Hel 40079, and School Bancas of Economic Research (e. man Economics Consumples of Economics Company of Had, 1935. Stant Stant Ass. Astroc. Hel 40079, and School Bancas of Economic Research (e. man Economics and Economics) in Research (e. man) and the thirty of Economic Research (e. man Economics and Economics) and Economics of Economics of Economics of Economics (e. man) and the Economics of Economics of Economics (e. man) and the Economics of Economics of Economics (e. man) and the Economics of Economics of Economics (e. man) and the Economics of Economics of Economics (e. man) and the Economics of Economics (e. man) and the Economics (e.

2923

Credit Market Consequences of Improved Personal Identification: Field Experimental Evidence from Malawi

We implemented a randomized field experiment in Malawi examining borrower responses to being fingerprinted when applying for loans. This intervention improved the lender's ability to implement dynamic repayment incentives, allowing it to withhold future loans from past defaulters while rewarding good borrowers with better loan terms. As predicted by a simple model, fingerprinting led to substantially higher repayment rates for borrowers with the



highest ex ante default risk, but had no effect forthe rest of the borrowers. We provide unique evidence that this improvement in repayment rates is accompanied by behaviors consistent with less adverse selection and lower moral hazard.

October 01, 2012