

Employer matching and 401(k) saving: Evidence from the health and retirement study [☆]

Gary V. Engelhardt ^{a,*}, Anil Kumar ^b

^a *Department of Economics, and Center for Policy Research, Syracuse University, United States*

^b *Research Department at the Federal Reserve Bank of Dallas, United States*

Received 29 July 2006; received in revised form 16 February 2007; accepted 26 February 2007

Available online 6 March 2007

Abstract

Employer matching of employee 401(k) contributions is often touted as a powerful incentive to save for retirement and is a key component in pension-plan design in the United States. Using detailed administrative contribution, earnings, and pension-plan data from the Health and Retirement Study, this analysis formulates a life-cycle-consistent econometric specification of 401(k) saving and estimates the determinants of saving accounting for non-linearities in the household budget set induced by matching. The participation estimates indicate that an increase in the match rate by 25 cents per dollar of employee contribution raises 401(k) participation by 5 percentage points. The parametric and semi-parametric

[☆] All research with the restricted-access data from the Health and Retirement Study was performed under agreement in the Center for Policy Research at Syracuse University and the Federal Reserve Bank of Dallas. We thank Dan Black, David Card, Courtney Coile, Chris Cunningham, Bill Gale, Roger Gordon, Erik Hurst, Annamaria Lusardi, Brigitte Madrian, Costas Meghir, John Moran, Susann Rohwedder, Clemens Sialm, John Karl Scholz, two anonymous referees and seminar participants at Syracuse University, University of Chicago, University of Missouri, University of Virginia, Dutch Central Bank, Econometric Society World Congress, Federal Reserve Bank of Dallas, NBER Transatlantic Public Economics Seminar, and the NBER Universities Research Conference for helpful discussions and comments. We are especially grateful to Bob Peticolas and Helena Stolyarova for their efforts in helping us understand the HRS employer-provided pension-plan data. The research reported herein was supported (in part) by a grant from the TIAA-CREF Institute and (in part) by the Center for Retirement Research at Boston College pursuant to a grant from the U.S. Social Security Administration funded as part of the Retirement Research Consortium. Various portions of the underlying data construction were funded by the Center for Policy Research at Syracuse University, the Economics Program, National Science Foundation, under grant no. SES-0078845, National Institute on Aging, under grant no. 1 R03 AG19895-01, and the U.S. Department of Labor. The opinions and conclusions are solely those of the authors and should not be construed as representing the opinions or policy of the Social Security Administration, Federal Reserve Bank of Dallas, Federal Reserve System, any agency of the Federal Government, Center for Retirement Research at Boston College, TIAA-CREF, United States Department of Labor, National Science Foundation, National Institute on Aging, or Syracuse University. All errors are our own.

* Corresponding author.

E-mail addresses: gvengelh@maxwell.syr.edu (G.V. Engelhardt), anil.kumar@dal.frb.org (A. Kumar).

estimates for saving indicate that an increase in the match rate by 25 cents per dollar of employee contribution raises 401(k) saving by \$365 (in 1991 dollars). Overall, the analysis reveals that the 401(k) saving response to matching is quite inelastic, and, hence, matching is a rather poor policy instrument with which to raise retirement saving.

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Keywords: Employer matching; Saving; Taxation; Private pensions

1. Introduction

As 401(k)s have come to dominate the private pension landscape in the United States, researchers and policy makers have given increased attention to the impact of plan characteristics on retirement-saving decisions.¹ One important characteristic is whether and to what extent the employer matches employee contributions. A typical match might be 50 cents for each dollar of contribution, up to a maximum percentage of pay, say, 6%. Although much of the discussion by the popular press and policy makers presumes employer matching raises saving, there is actually strikingly little consensus among researchers. Some studies have found that increases in the match rate raise 401(k) saving (Papke and Poterba, 1995; Clark and Schieber, 1998; Vanderhei and Copeland, 2001; Choi et al., 2002). Others have found that it is not the match rate *per se* that matters, but whether the firm offers a match at all (Even and Macpherson, 1996; Bassett et al., 1998; Papke, 1995; Kusko et al., 1998). That is, providing a match raises 401(k) saving, but an increase in the level of the match rate (conditional on providing a match) does not. Finally, still other studies (Employee Benefit Research Institute, 1994; Andrews, 1992; Munnell et al., 2002; General Accounting Office, 1997) have suggested that, conditional on being eligible for a match, an increase in the match rate *lowers* 401(k) contributions, which, when interpreted in the context of a simple two-period model of saving, suggests that the income effect dominates the substitution effect from the higher rate of return matching provides. Overall, this ambiguity has emerged as an important empirical puzzle in the literature on saving behavior (Bernheim, 2003).

Unfortunately, previous studies have had three important shortcomings. First, they have not couched their analyses in formal models of intertemporal choice, even though saving involves the substitution of resources across time. This means that previous estimates cannot be interpreted as estimates of life-cycle-consistent determinants of 401(k) saving necessarily, because the empirical specifications may not have been consistent with underlying utility maximization. So, while the existing literature has provided quite informative descriptive analyses, it has said little about how 401(k) saving may respond to prospective changes in employer matching or what the optimal match rate should be to achieve a saving target.

Second, with the exception of Choi et al. (2002), Mitchell et al. (2005), and Vanderhei and Copeland (2001), previous studies have failed to exploit the fact that multiple-match-rate schedules and caps on matching induce kinks in the budget set. As has been long recognized in the study of taxation on labor supply, reduced-form estimates of behavioral elasticities are biased and inconsistent unless the non-linearity is accounted for explicitly (Hausman, 1985; Moffitt, 1986, 1990; Blundell and MaCurdy, 1999). Indeed, the presence of budget-set kinks may reconcile some of the findings of previous studies: for example, the provision of a match may raise 401(k) saving if

¹ This includes work on automatic enrollment (Madrian and Shea, 2001; Choi et al., 2002, 2004), investment in company stock (Poterba, 2003; Brown et al., 2006; Mitchell and Utkus, 2002), portfolio choice and trading in 401(k) plans (Benartzi and Thaler, 2001; Agnew et al., 2003).

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