

Tuesday 11th May 10:00 - 11:00



Nuffield Foundation

Context for this research



- Lots of focus on the 'adequacy' (or not) of retirement saving
- Less attention on when individuals should or do save for retirement

- 2 year programme of research funded by the Nuffield Foundation
 - How should saving change over working life?
 - How do employees and the self-employed behave in practice?
 - How do saving rates change with age, changes in earnings, and other changes in personal circumstances?

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Today: discuss two initial publications



When should individuals save for retirement?

Using a simple economic model



- Not an attempt to model how people save in practice
- Aim to illustrate how 'features of life' would be expected to affect preferred patterns of saving
 - Earnings growth
 - Children
 - Student loan repayments
 - Financial incentives to save
- Yields practical implications for real-world policy

The simple model

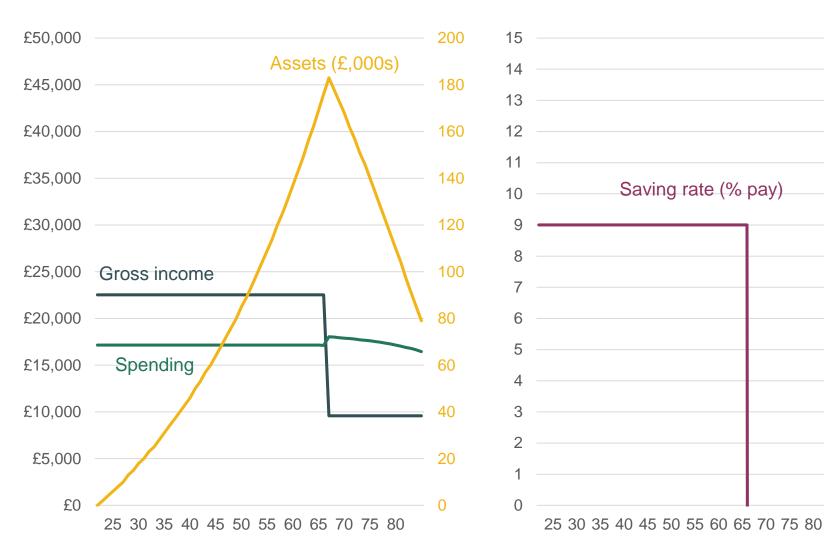


- Model an individual from age 22 to death
- Each year they choose how much to spend and how much to save
- Saving is in an illiquid risk free asset with a known return
- Solution will smooth living standards over the life cycle

Baseline: all years of working life are the same

Baseline model





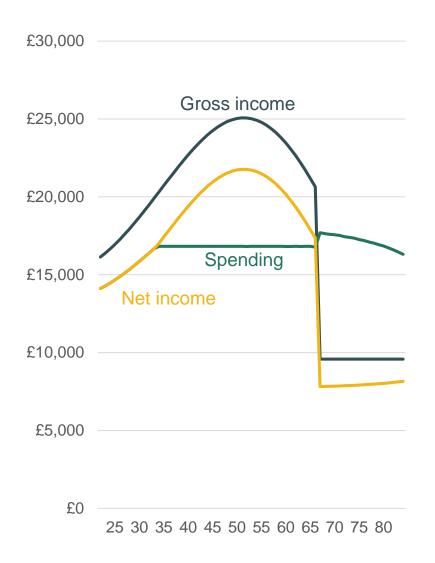
Notes: Assumes 3% real rate of return and 3% discount rate.

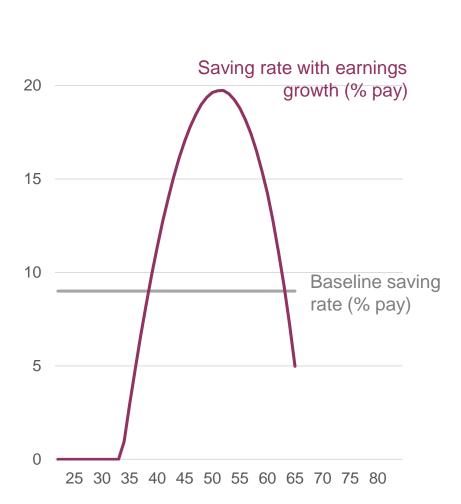
When should people save for retirement?

Effects of earnings growth

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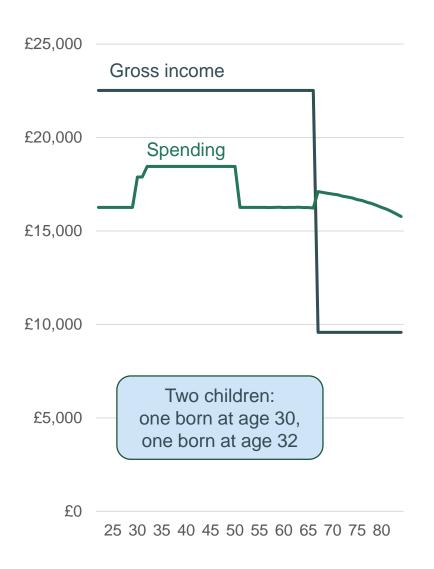
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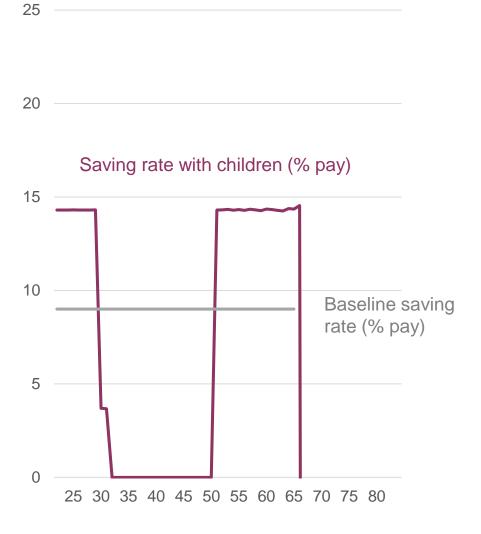




Effects of children

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Student loans



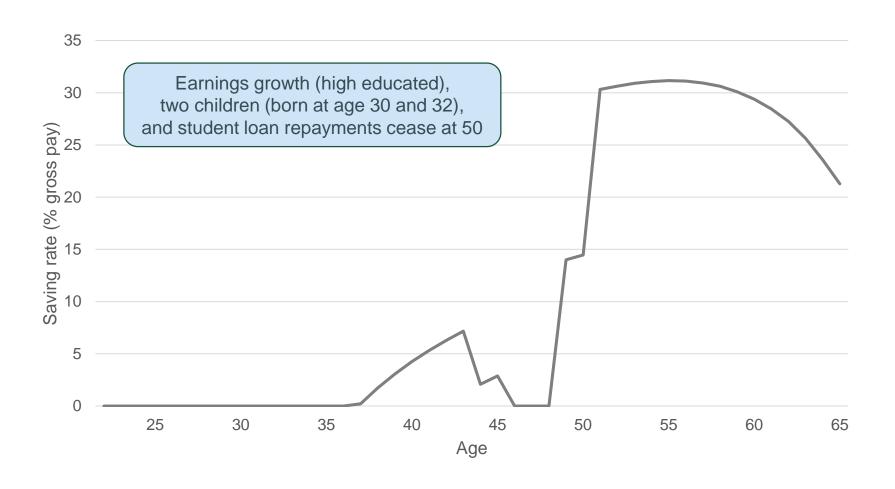
- Student loans have a particular repayment schedule
 - Repayments of 9% of income above a threshold (£26,575)
 - Remaining debt is written off 30 years after graduation
- Only a minority of graduates should expect to repay their loan in full

[Complex interactions with salary sacrifice arrangements]

- Simulations indicate IF making loan repayments that cease after 30 years...
- ... at that point should increase pension saving by full amount of previous repayments

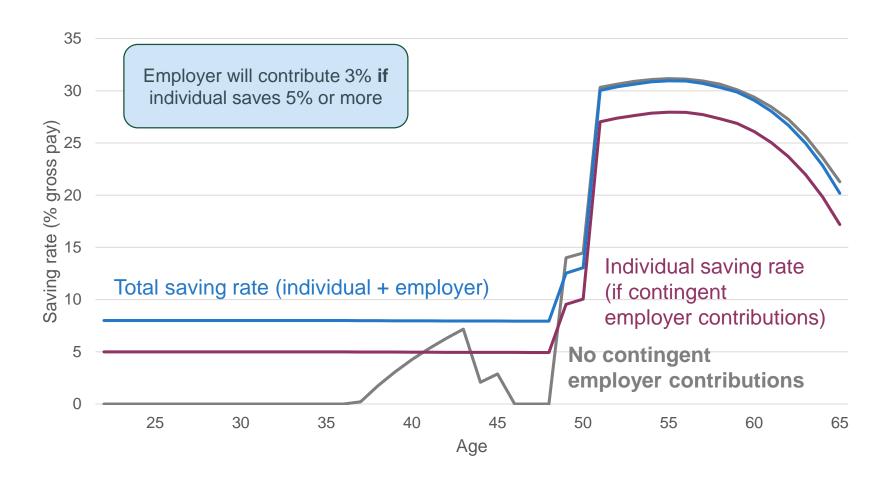
Taken together





Effects of an 'AE style' incentive





Effects of earnings uncertainty

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- More saving at younger ages
 - Don't leave all saving until later years in case earnings lower than expected
 - If earnings better than expected then save some for retirement
- With (uncertain) earnings growth, children, student loans and employer contingent contributions:
 - On average saving rate still increases sharply in later life
 - 73% of simulated high-educated would do make than half of their pension contributions in the last half of working life
 - Median: 71% of contributions made at ages 45+ (high-ed)

Implications



- Very good reasons to expect saving rates to vary (substantially) over working life
- An important downside of defined benefit pensions: contributions cannot be easily varied over working life to match capacity to save
- Automatic enrolment currently has a single default contribution rate
 - Does not imply this makes people worse off than without AE
 - But future adjustments to AE or other saving policies should explicitly consider lifecycle factors
 - Age dependent default employee contribution rates?
 - Increases in contribution rates triggered by earnings rises?
 - Defaults to increase saving when student loans are repaid?
 - Nudges to increase saving when children reach age 18?



How do people save in practice?

Methodology

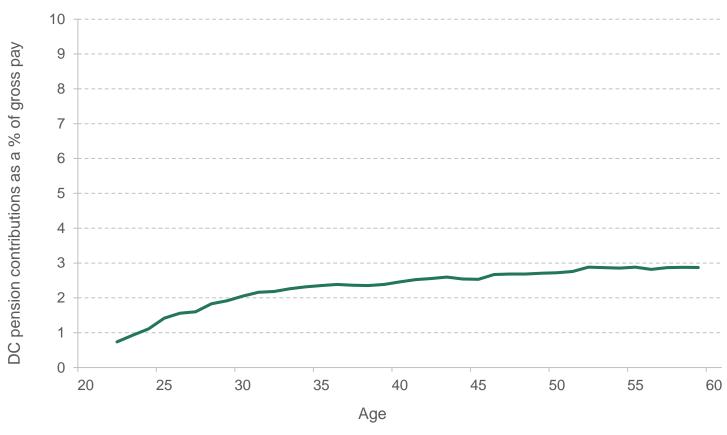


- We estimate age profiles, controlling for time and generation differences
- Focus on period 2005-12
 - Before Automatic Enrolment (AE)
 - We don't have enough years of data to confidently estimate age profiles post-AE
- When asking how people change their contributions with age, we'll focus on private-sector employees saving in defined contribution (DC) pensions

Pension saving did increase with age, but only slightly



Average DC pension contributions as a percentage of gross pay for private-sector employees, by age (2005-12)

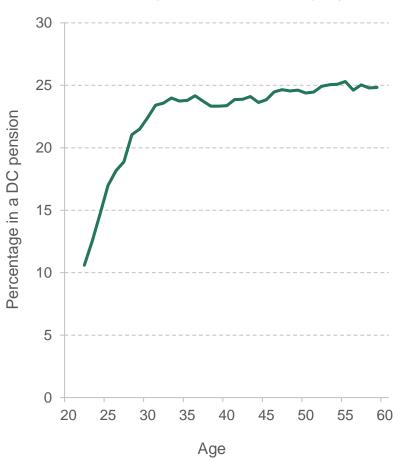


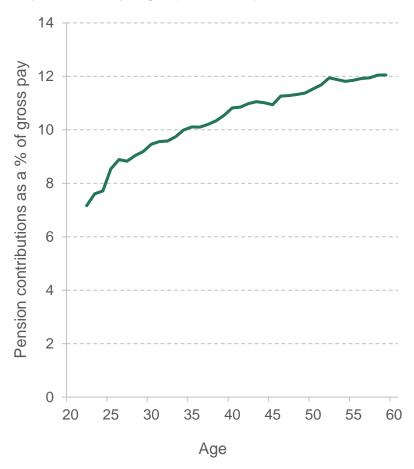
Source: Figure 2.3 of Crawford and O'Brien (2021)

Pension membership and contributions drive this increase



Percentage of private-sector employees in a DC pension by age, and average contributions for private-sector employees in a DC pension by age (2005-12)





Source: Figures 3.1 and 3.2 of Crawford and O'Brien (2021)

Key takeaways



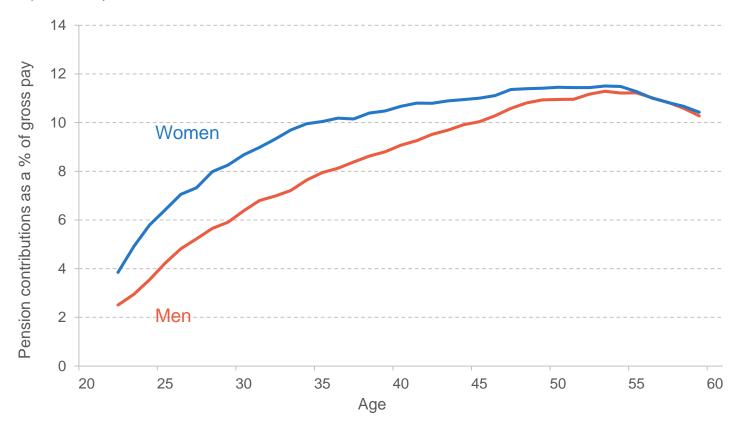
- Before AE, DC pension saving did increase with age among privatesector employees...
- ... but not nearly as much as suggested by the theoretical model
- → Undersaving is particularly a problem in later working life
- Much of this increase was driven by people starting to save in a DC pension, particularly during early working life
- Automatic enrolment has dramatically increased private pension membership, particularly among younger individuals
- The effect of this will be to further flatten the age profile of pension saving
- → Future policies should consider lifecycle factors



Gender pension differences

Women saved a higher proportion of liles their earnings in a pension than men

Average pension contributions as a percentage of gross pay for employees, by age and sex (2005-12)

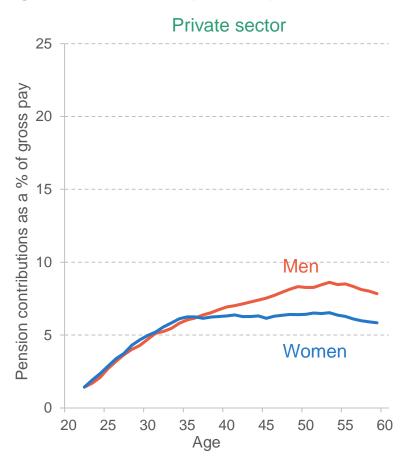


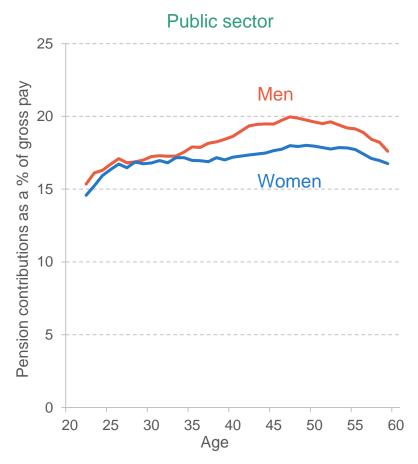
Source: Figure 4.1 of Crawford and O'Brien (2021)

Conditional on sector, a pension savings gap opens up at age 35

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Average pension contributions as a percentage of gross pay for employees, by age, sex and sector (2005-12)



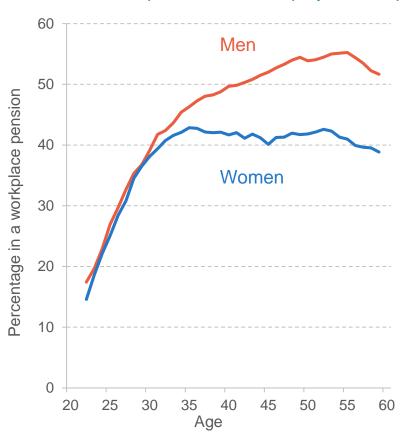


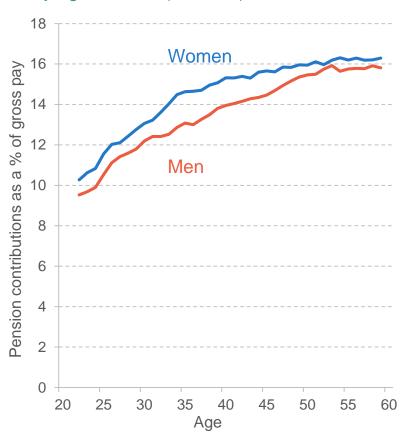
Source: Figure 4.2 of Crawford and O'Brien (2021)

This gap was driven by lower pension membership among women

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Percentage of private-sector employees in a pension by age and sex, and average contributions for private-sector employees in a pension by age and sex (2005-12)



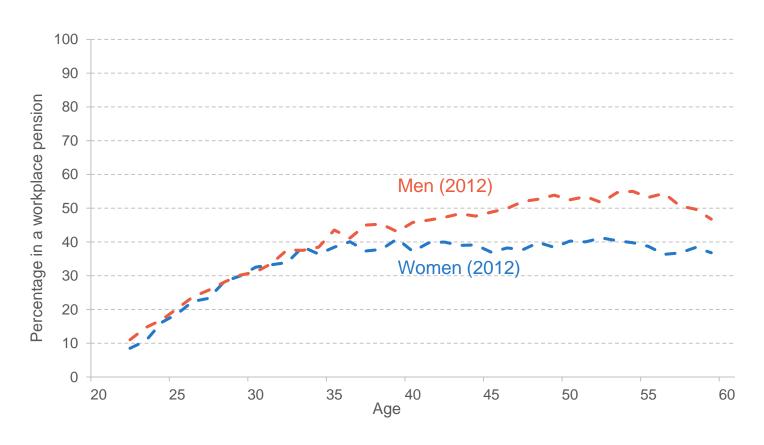


Source: Figures 4.3 and 4.4 of Crawford and O'Brien (2021)

The pattern post-AE has changed



Percentage of private-sector employees saving in a pension, by age and sex (2012 and 2019)

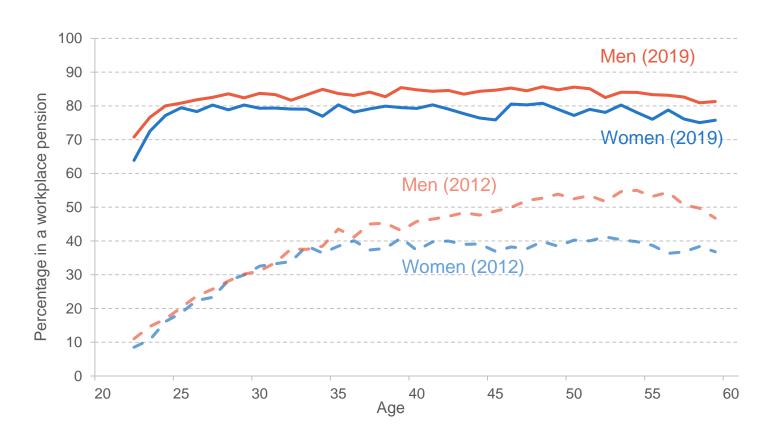


Source: Figure 4.5 of Crawford and O'Brien (2021)

The pattern post-AE has changed



Percentage of private-sector employees saving in a pension, by age and sex (2012 and 2019)



Source: Figure 4.5 of Crawford and O'Brien (2021)

Key takeaways



Pre-AE:

- Conditional on sector, women on average saved a lower proportion of their earnings in a pension from age 35 on
- This is because they are less likely to be saving in a pension after this age
- → Linked to employment decisions after arrival of children?
- AE has increased pension membership substantially, probably reducing the gender gap in pension saving rates
- But, we still see that men are more likely to be saving in a pension at all ages due to AE targeting
- To understand the overall effects of AE, and the potential effects of future policy in this area, need to understand more about what was driving the pension gap pre-AE

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