IIIFS

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What drives how much workers are saving in their pensions?



Economic and Social Research Council





Jonathan Cribb

When and why do employees change their pension saving?

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Introduction



 Automatic enrolment has boosted pension participation, but many only saving low 'minimum' amounts – and are likely to need to save more

Important to think about *when* to save (in addition to 'how much')

- When is current consumption going to be easier to forego?
- It may be easier to *encourage* people to save more at these times
- It would be better to save more in a pension when:
 - Earnings are high
 - When tax incentives for pension are higher
 - Consumption needs are low
 - Less is being saved for retirement in other forms
- We examine how pension saving changes due to these different factors and draw out lessons for policy

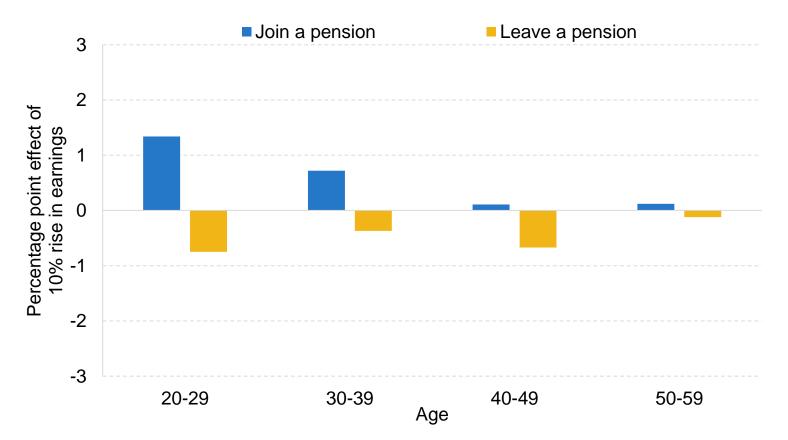


How does a pay rise affect pension participation and contributions?

Do employees join/leave pensions when they get a pay rise?

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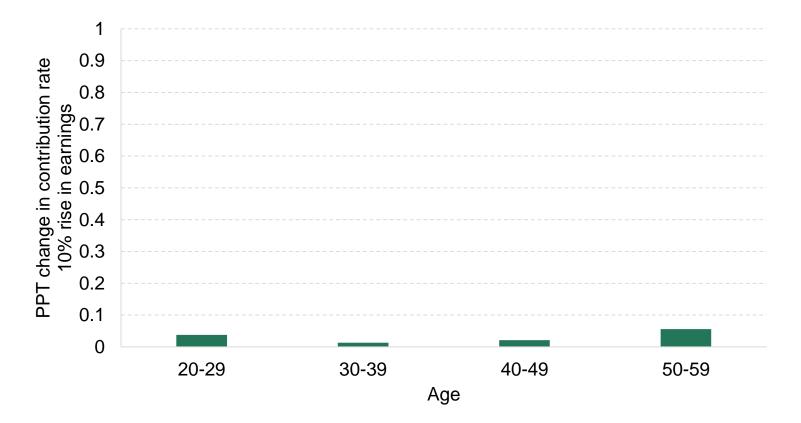
Percentage point change in probability of joining, or leaving, a pension over course of a year when earnings rise by 10%, controlling for age and year



Source: Table 2.3 of Cribb and O'Brien (2023). 2019-20 data. Only for those with the same employer.

Do employees increase contribution "IIIFS rates when they get a pay rise?

Percentage point change in employee pension contribution rate when earnings rise by 10%, controlling for age, year and whether person moves employer



Source: Table A.1 of Cribb and O'Brien (2023). 2019-20 data.



How do current tax incentives around the higher rate threshold affect pension saving?

Tax incentives for employees



- Under the UK pensions tax system, there is a higher incentive to save the higher the marginal tax rate faced by individuals
- Notable change in income tax rate at the "higher rate threshold" (HRT; currently ca. £50k) 20% income tax → 40% income tax
 - Higher incentive to save in pension above HRT
- Are employees more likely to save in a pension above the HRT?

Workplace pension participation of Illifs private sector employees



Source: Figure 3.1 of Cribb and O'Brien (2023).

Tax incentives for employees



- Under the UK pensions tax system, there is a higher incentive to save, the higher the marginal tax rate faced by individuals
- Notable change in income tax rate at the "higher rate threshold" (HRT; currently ca. £50k) 20% income tax -> 40% income tax
 - Higher incentive to save in pension above HRT
- Are employees more likely to save in a pension above the HRT?

No

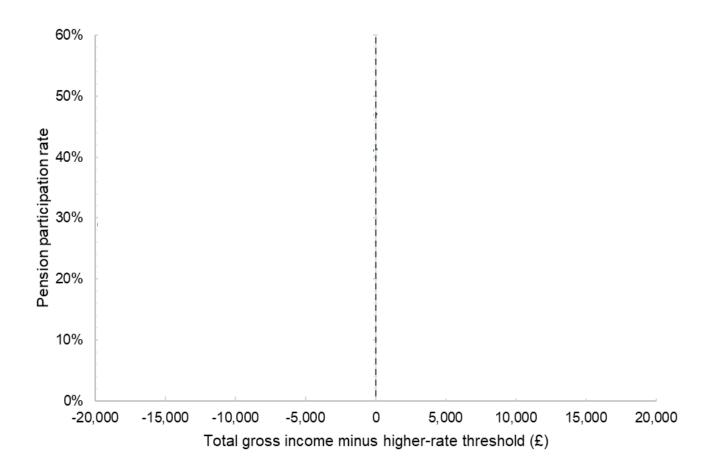
- Do employees contribute more to their pension above the HRT?
 - Before AE: £150 p/year for a typical employee close to HRT
 - After AE: No effect

Tax incentives for self-employed



- Similar set of incentives for the self-employed to contribute more to a pension above the Higher Rate Threshold
 - Potentially more flexible pension arrangements; no AE
- Are self-employed more likely to save in a pension above the HRT?

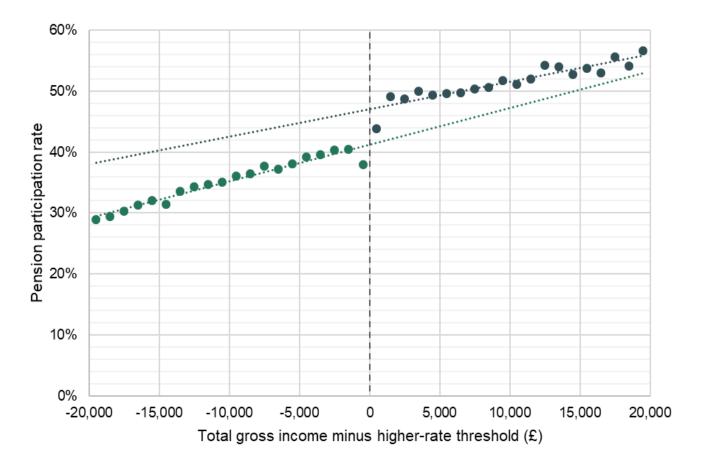
Private pension participation of the self-employed around HRT



Source: Figure 4.1 of Cribb and Karjalainen (2023).

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Private pension participation of the self-employed around HRT



Source: Figure 4.1 of Cribb and Karjalainen (2023).

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Tax incentives for self-employed



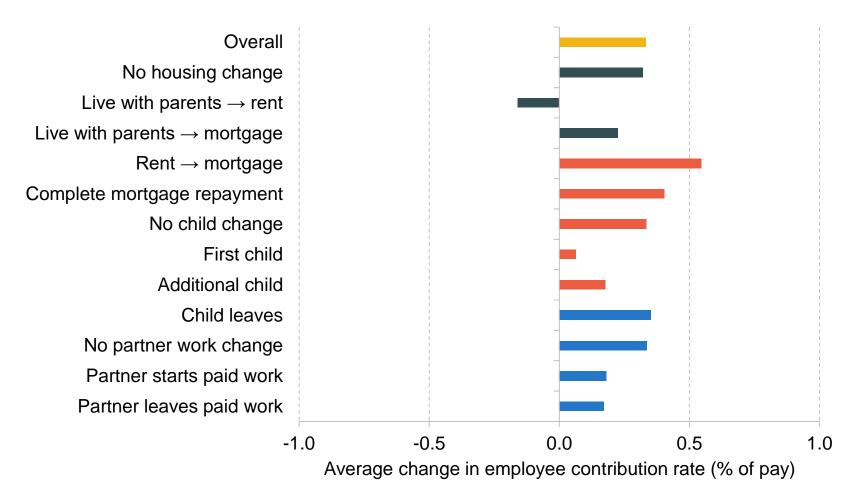
- Similar set of incentives for the self-employed to contribute more to a pension above the Higher Rate Threshold
 - Potentially more flexible pension arrangements; no AE
- Are self-employed more likely to save in a pension above the HRT?
 - Yes. 3 ppts higher as a result of increased incentives above HRT
- Do self-employed contribute more to their pension above the HRT?
 - £100 p/year more compared to average of £2,000 per year



How do 'life events' affect pension saving?

- In general we might expect (or hope) that pension participation and contributions would <u>rise</u> when:
 - Mortgage paid off
 - Move from renting to owning home
 - Children move out
 - Partner gets a job
- And would fall when :
 - Children are born
 - Move from parents' home to renting

Average change in employee pension contribution (% of pay)



Source: Figure 4.3 of Cribb and O'Brien (2023).

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- Two 'life events' found to marginally increase pension contributions
- I. Move from renting to owning home
 - Pension contributions tend to increase by around 0.4 per cent of pay more when people move from renting to having a mortgage

2. Children are born

- Pension contributions tend to be 0.3 per cent of pay lower after the arrival of a first child
- Slightly larger effect on women than on men
- No effect of additional children

Policy implications (I)



 Employees' pension saving decisions do not respond substantially to changes in earnings, tax incentives, or life events

- Particularly since the introduction of automatic enrolment
- Highly driven by default options

Tax incentives alone not enough to encourage additional saving

- Even for self-employed who are more responsive
- Good case for higher default employee contributions at higher levels of earnings
 - Particularly above the higher rate threshold

Policy implications (II)



- Is it possible to encourage, or nudge, employees into being more responsive to life events?
- Could have higher default employee contributions at older ages (50+? 55+?)
 - More likely that mortgage/student loans paid off; children more likely to have left home
- 2. Possible to encourage people divert a share of mortgage repayment into a pension scheme when mortgage paid off?
- 3. Integrate information on student loans to automatically increase contributions when loan is paid off?

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Understanding pension saving among the selfemployed



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- Number of self-employed workers in the UK grew rapidly in the decades leading up to the Covid-19 pandemic
 - From 3.3 million people in 2001 to 5 million people in 2019
- The self-employed differ from employees in a number of ways
 - On average lower incomes, but share of very high earners also larger; incomes also tend to be more volatile
 - Different industry composition
 - On average older and more likely to be male
 - Lower rates of private pension participation
- Today we present analysis on pension saving patterns among the self-employed using administrative tax data



- We use administrative tax records from the HMRC (2005–06 to 2014–15)
 - First time these data is used to examine pension saving of the self-employed
- Benefits of these data:
 - (Close to) the whole population of the self-employed (sole traders and partners) in the UK
 - Can follow the self-employed over time
 - Detailed measures of income and pension contributions
- We focus on a specific sample of the self-employed
 - Long-term (self-employed at least 5 years)
 - Only self-employed (no employment income)

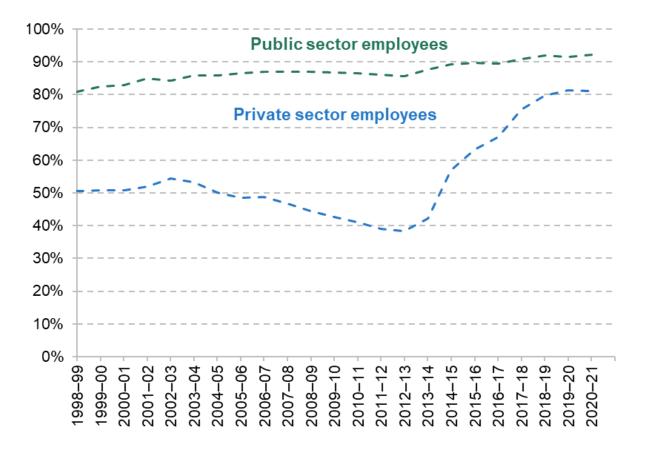


Private pension participation among the self-employed

Pension participation among the self-employed falling over time

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Private pension participation among working-age employees and self-employed

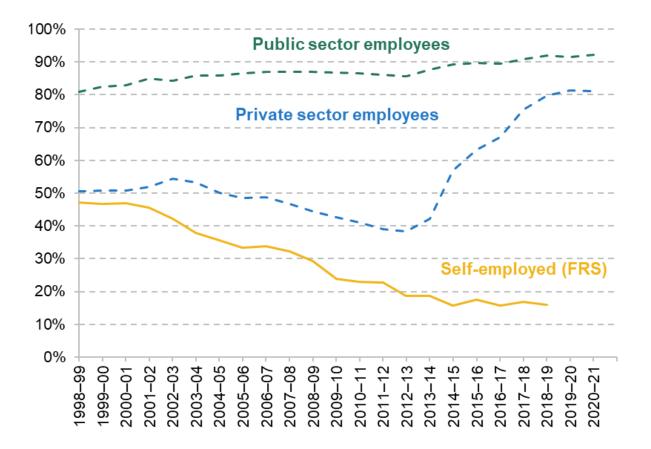


Source: Cribb and Karjalainen (2023) Figure 2.1. Working age only.

Pension participation among the self-employed falling over time

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Private pension participation among working-age employees and self-employed

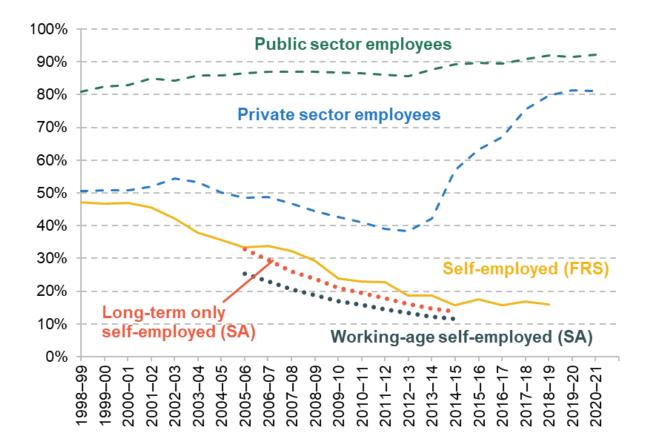


Source: Cribb and Karjalainen (2023) Figure 2.1. Working age only.

Pension participation among the self-employed falling over time

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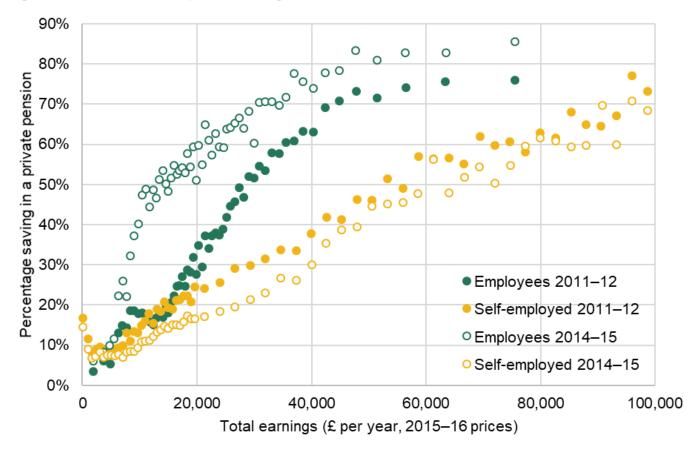
Private pension participation among working-age employees and self-employed



Source: Cribb and Karjalainen (2023) Figure 2.1. Working age only.

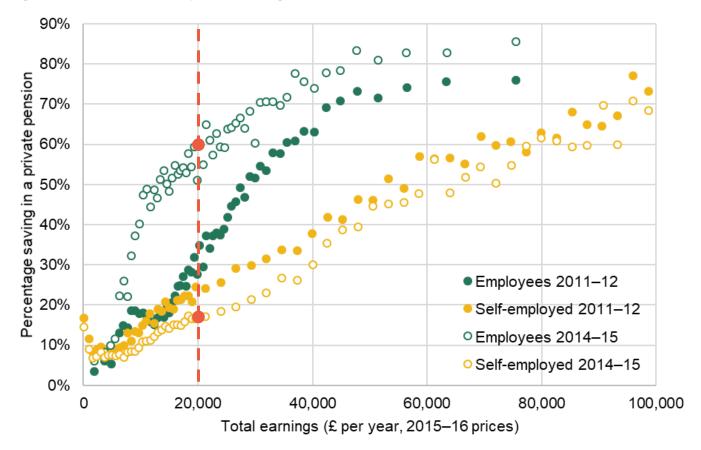


Proportion of self-employed workers and private sector employees saving in a pension by earnings





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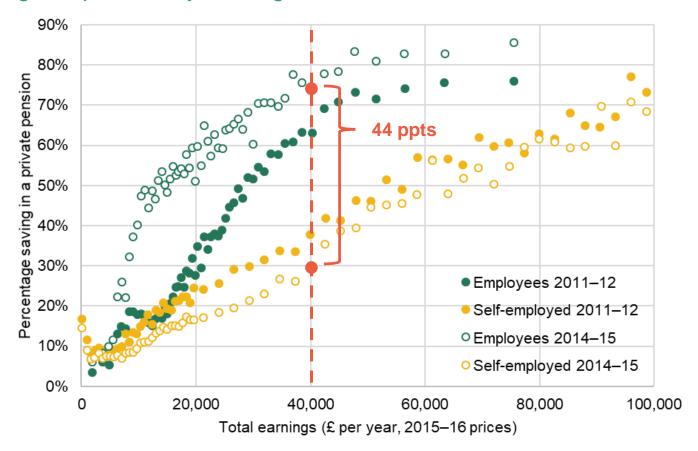


Proportion of self-employed workers and private sector employees saving in a pension by earnings





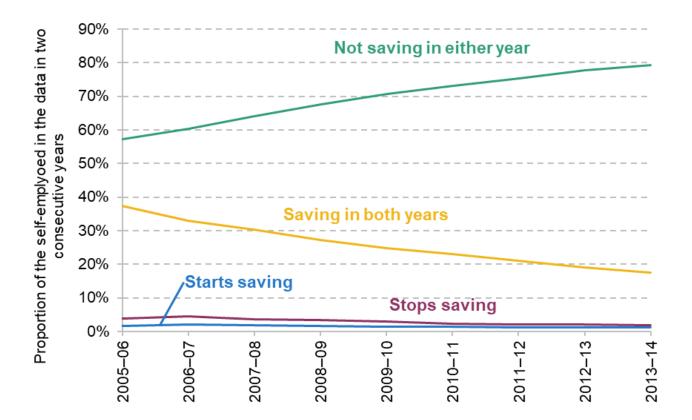
Proportion of self-employed workers and private sector employees saving in a pension by earnings



Do the self-employed move in and out of pension saving?

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Flows between starting and stopping pension saving between two consecutive years, over time





Pension contributions among self-employed savers

How much do the self-employed savers save into a pension?

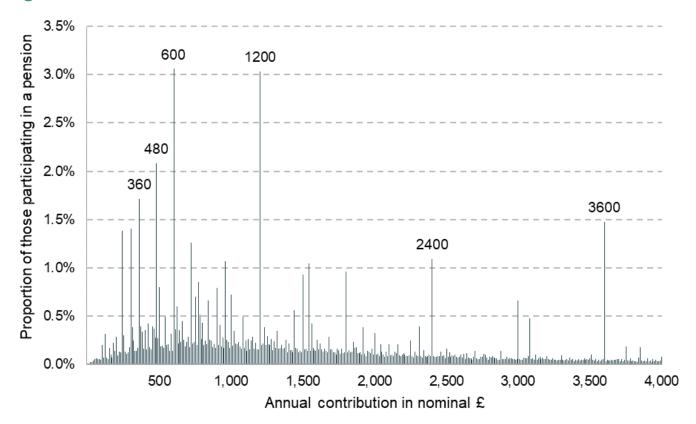


- Contributions (as % of earnings) among self-employed savers are on average higher than employee's own contributions into DC pots
- But accounting for employer contributions for employees:
 - Among those earning below £20,000 per year, average selfemployed contributions are higher or similar to total contributions among employees
 - Contribution rates are higher for employees in the middle of the earnings distribution

How do the self-employed choose amounts they save?

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Distribution of cash pension contributions among the self-employed, pooling data from 2005–06 to 2014–15

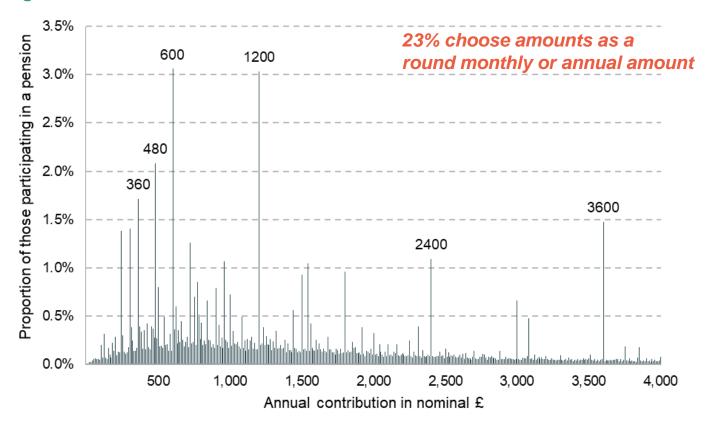


Source: Cribb and Karjalainen (2023) Figure 2.3. Round numbers are defined as £10, £20, £25, £30, £40, £50, £60, £70, £75, £80, £90, then multiples of £1,000 up to £50,000, either at annual or monthly level.

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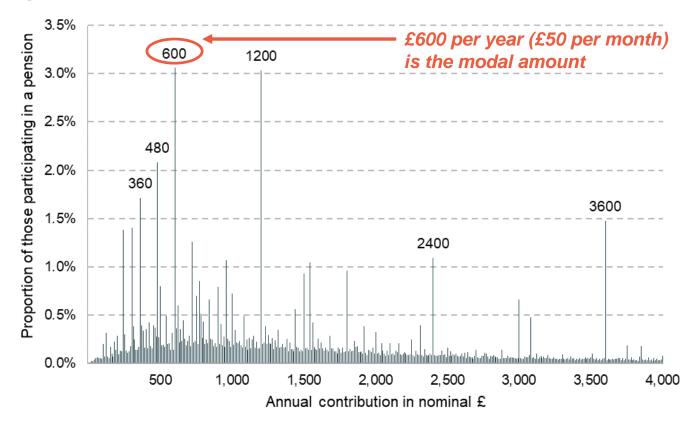


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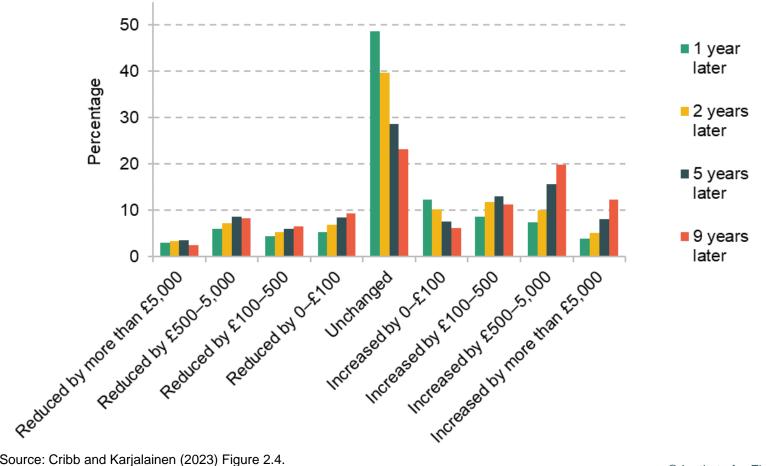
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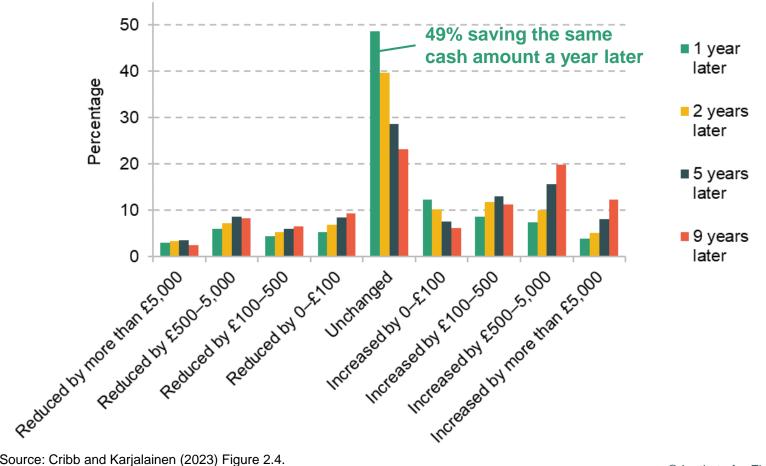


Source: Cribb and Karjalainen (2023) Figure 2.4.

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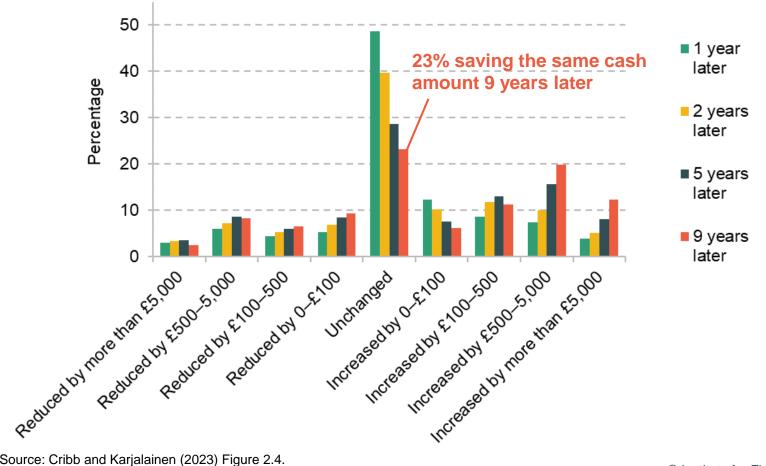
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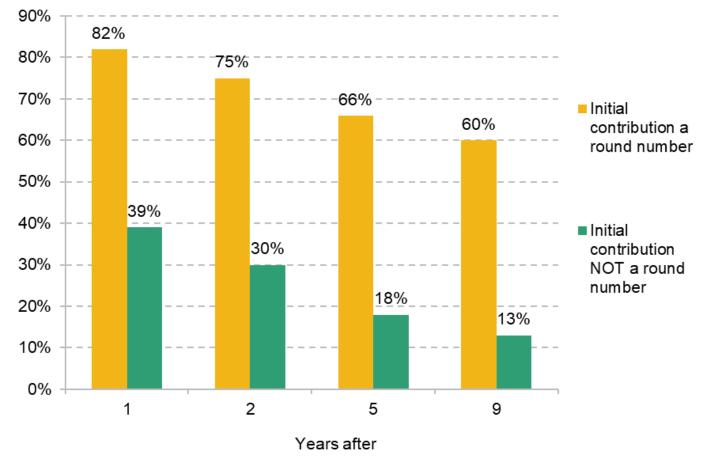
Distribution of cash pension contributions among the self-employed, pooling data from 2005–06 to 2014–15



Source: Cribb and Karjalainen (2023) Figure 2.4.

How do the round amount savers change amounts saved over time?

Proportion saving the same cash amount after different periods of time, based on whether their initial contribution was a round number in monthly or annual terms

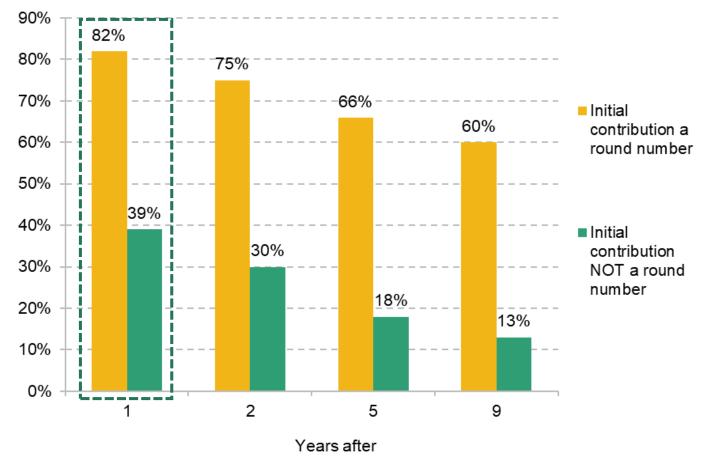


Source: Cribb and Karjalainen (2023) Figure 3.7.

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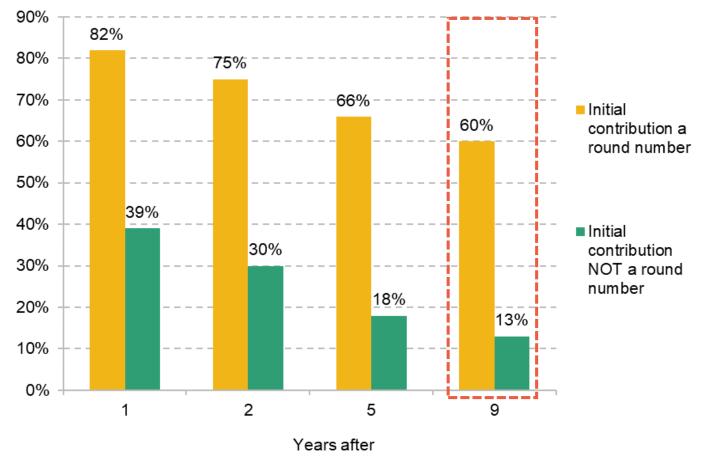


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Source: Cribb and Karjalainen (2023) Figure 3.7.

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Conclusion



- Key policy challenge: encourage self-employed people to engage with the private pension system and start saving into a pension
 - But we also need to think about the amounts saved among those who do save
- Among the self-employed savers, a form of auto-escalation could be a good way to boost pension saving
- For meaningful change, new innovations on how to incorporate pension saving defaults for the self-employed are needed

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The gender gap in pension saving



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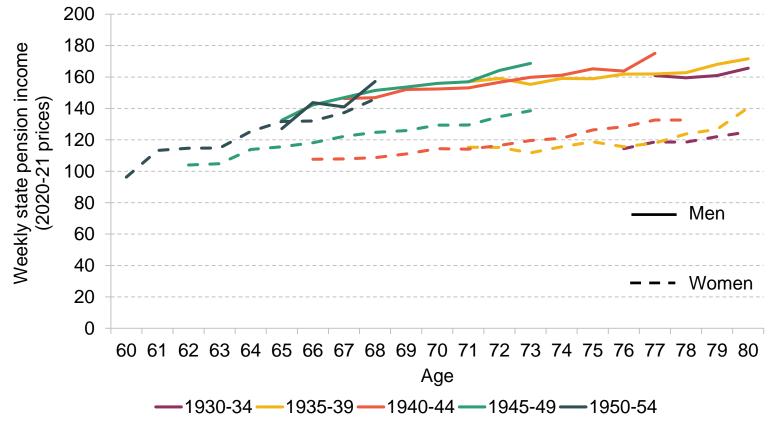
The gender pension gap



- Gender pension gap generally refers to difference in retirement incomes between men and women
- Understanding the drivers behind the gap crucial for evaluating effectiveness of different policies
- Important to be clear which gap is being analysed, and for which group
 - Gaps in pension incomes, pension participation, pension contributions?
 - For retirees, people of working age, people working in specific sectors?

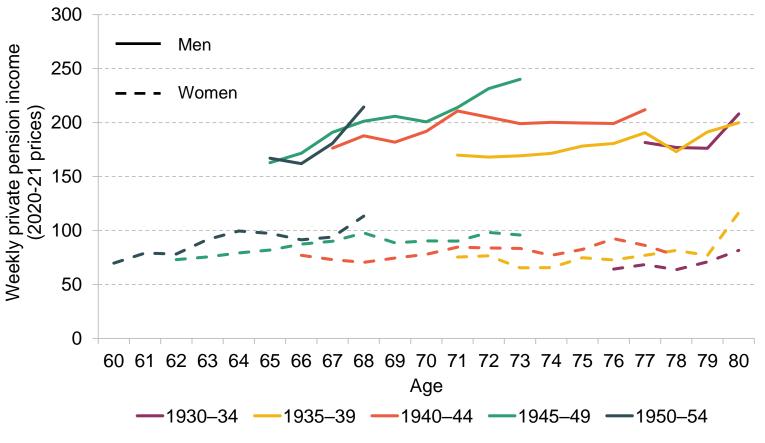
Gender gap in state pension incomes "IIIFS almost closed

Average state pension income of men and women over state pension age, by age and birth cohort



Source: Figure 1 of Cribb, Karjalainen and O'Brien (2023)

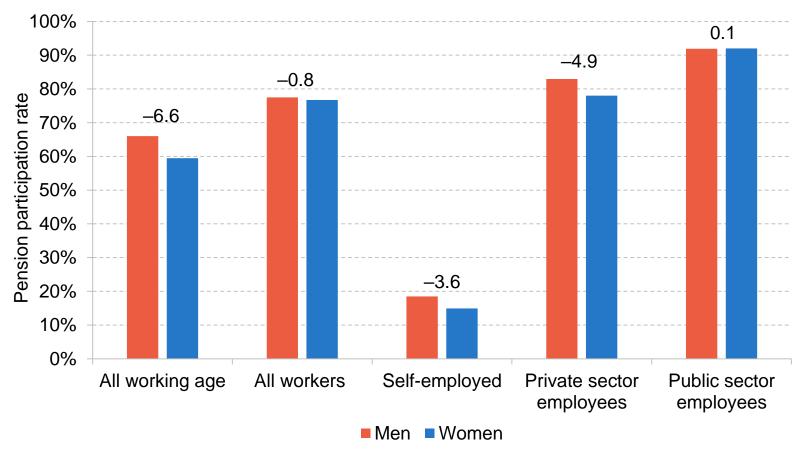
Average gross private pension income of men and women over state pension age, by age and birth cohort



Source: Figure 2 of Cribb, Karjalainen and O'Brien (2023)

Gaps in pension participation driven **"I**IFS by employment rates

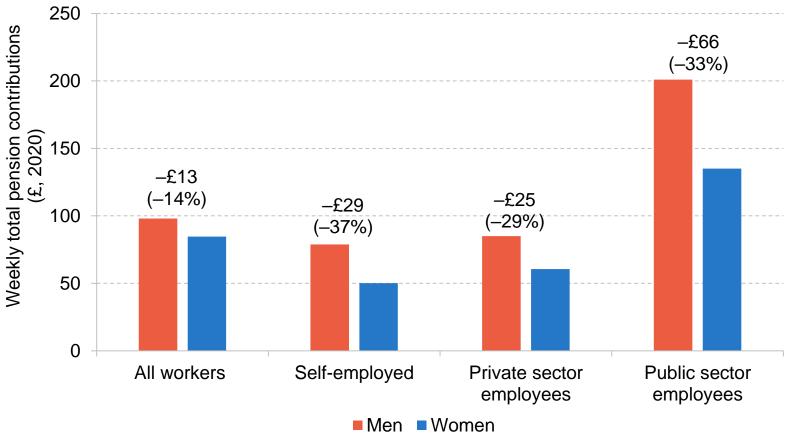
Pension participation rates for different groups of men and women aged 22–59 in 2019



Source: Figure 3 of Cribb, Karjalainen and O'Brien (2023)

Differences in sector composition Illifs offset gaps in pension contributions

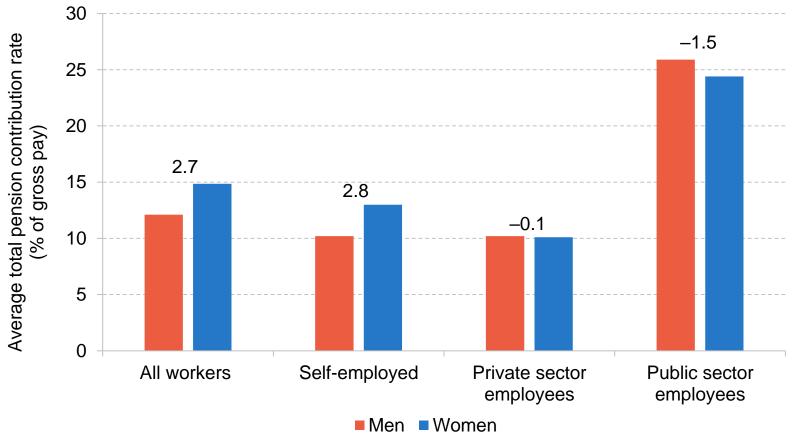
Average total pension contributions for different groups of men and women aged 22–59 in 2019, for those participating in a pension scheme



Source: Figure 4 of Cribb, Karjalainen and O'Brien (2023)

Women actually have higher IIIFS average contribution rates than men

Average total pension contribution rates for different groups of men and women aged 22–59 in 2019, for those participating in a pension scheme



Source: Figure 5 of Cribb, Karjalainen and O'Brien (2023)

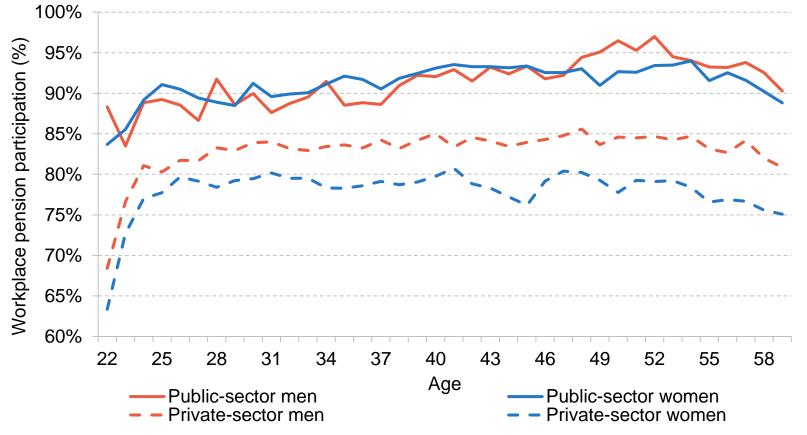
Gender gaps in pension saving within sectors



- Differences in labour market experiences between men and women drive gender gaps in amounts saved into pensions
 - → This will be a key determinant of the gender gap in pension incomes for future retirees
- But there are also differences in pension participation and saving rates when looking at men and women working in the same sectors

Gaps in participation for employees "IIIFS open up slightly with age

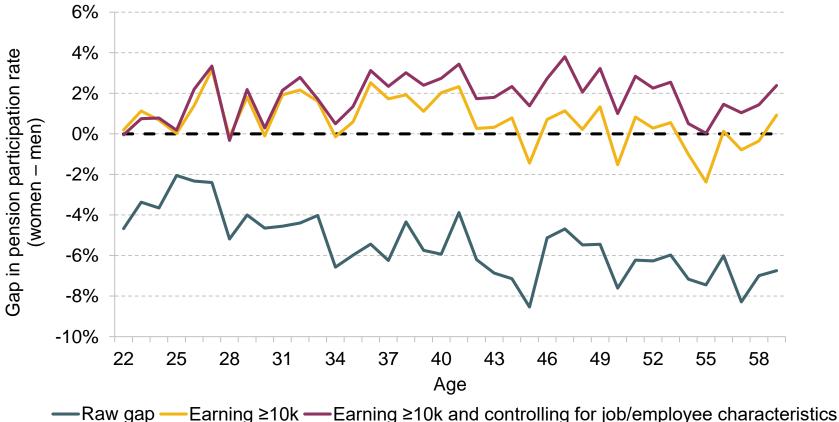
Workplace pension participation for male and female employees, by age and sector (2019 to 2020)



Source: Figure 8 of Cribb, Karjalainen and O'Brien (2023)

Participation gap in private sector IlliFS due to automatic enrolment threshold

Explaining the gap in pension participation among private sector employees (2019 to 2020)



Source: Figure 10 of Cribb, Karjalainen and O'Brien (2023)

Small gender gap in contribution rates in private sector



Explaining the gap in pension contribution rates among private sector employees participating in a pension (2019 to 2020)



Source: Figure 10 of Cribb, Karjalainen and O'Brien (2023)

Within-sector gender gaps mainly driven by differences in earnings

Public sector:

- Very little participation gap
- Gender gap in contribution rates in favour of men (1.5ppt) closes to near zero after controlling for earnings and other individual/job characteristics
 - Due to structure of public sector DB schemes with higher contribution rates for higher earners

Self-employed:

- Gender gap in participation (3.6ppt) shrinks after controlling for earnings, but does not close completely, especially at older ages
- Among savers, women have higher average contribution rates

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Summary



- While gender gap in state pension incomes essentially closed for recent retirees, still large gap in private pension incomes
- Main determinants of gender gap in private pension saving are differences in labour market experiences
 - These particularly open up after women have children
- Differences in sectoral composition offset some of the within-sector gaps in pension saving
- Gender gaps in pension saving within sectors largely driven by differences in earnings

Discussion

- Gender gap in pension saving driven by differences in employment rates, hours worked, and hourly wages
 - → Gender gap in private pension incomes will remain for decades
- Policymakers should see gender pension gap as a further consequence of labour market inequalities
 - Labour market policies might be better placed to target gap than pension saving policies
- Gap in pension participation in private sector due to £10k threshold for AE
 - But there are good reasons for many earning <£10k to not save in a pension

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