Insurance versus Moral Hazard in Income-Contingent STUDENT LOAN REPAYMENT

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- Governments often provide subsidized financing for higher education
 - Student loans = \$1.6 trillion in US and 10% of household debt in US and UK

Standard contract

Debt

- in US
- **X** Borrowers bear most of risk

Hard to discharge

RQ: How does income-contingent affect labor supply and welfare?

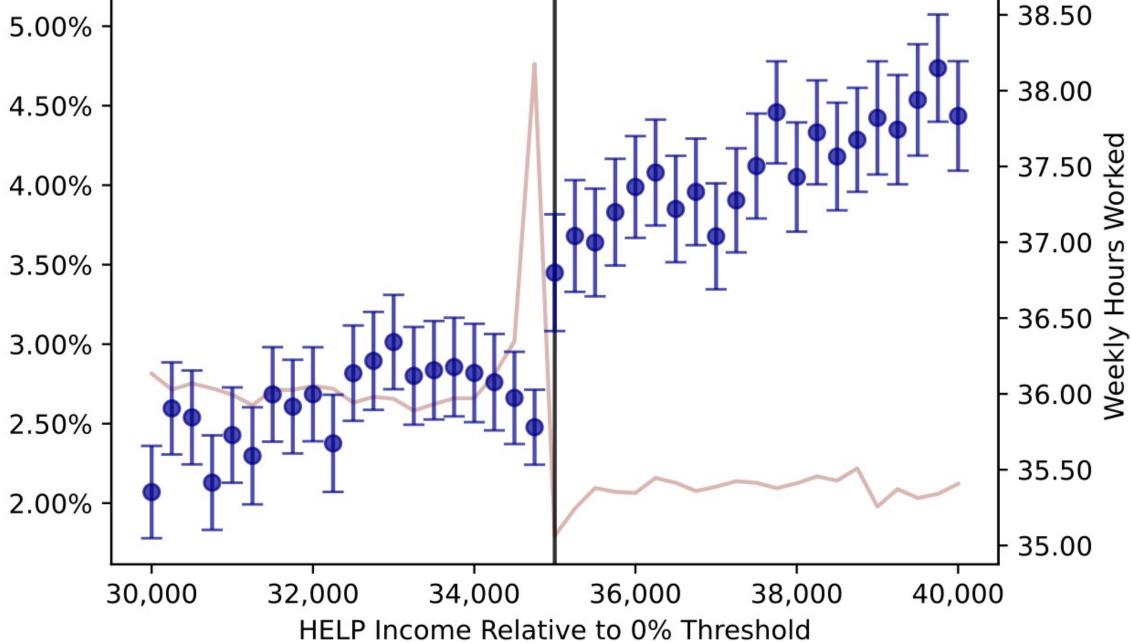
Income-Contingent Loan

- Used in US, UK, Australia, Canada
- Share of earnings

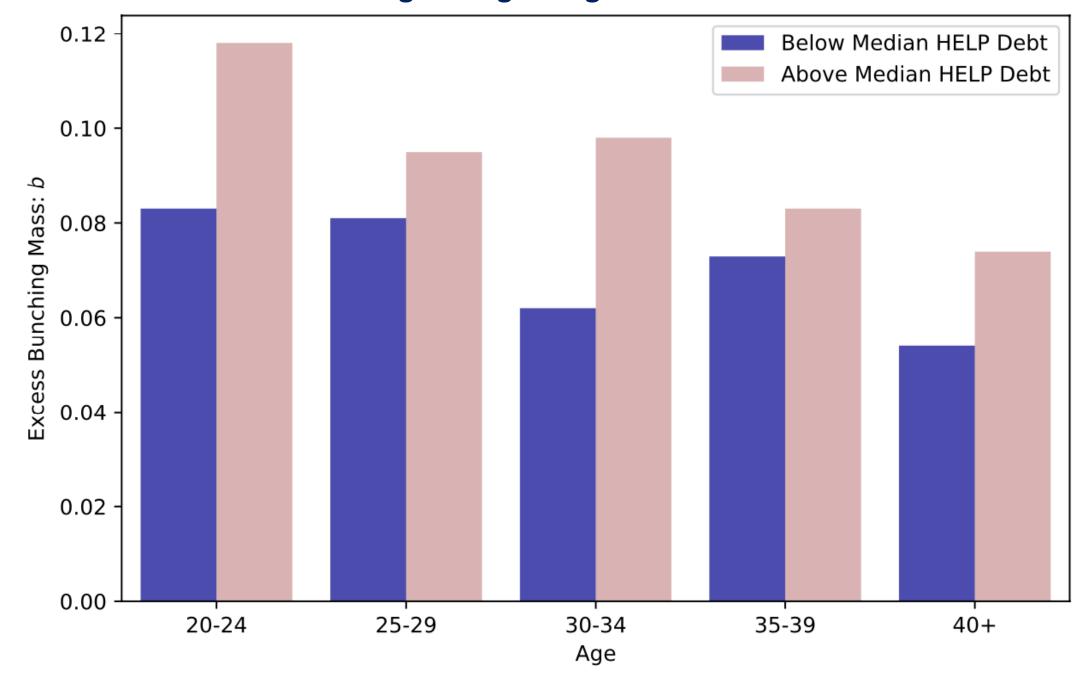
Equity

- Limited successful examples
- ✓ Insurance
- Disincentivize labor supply
- ✓ Encourage risk-taking
- X Incentivize over-borrowing
- X Adverse selection





More Bunching among Young Borrowers with More Debt

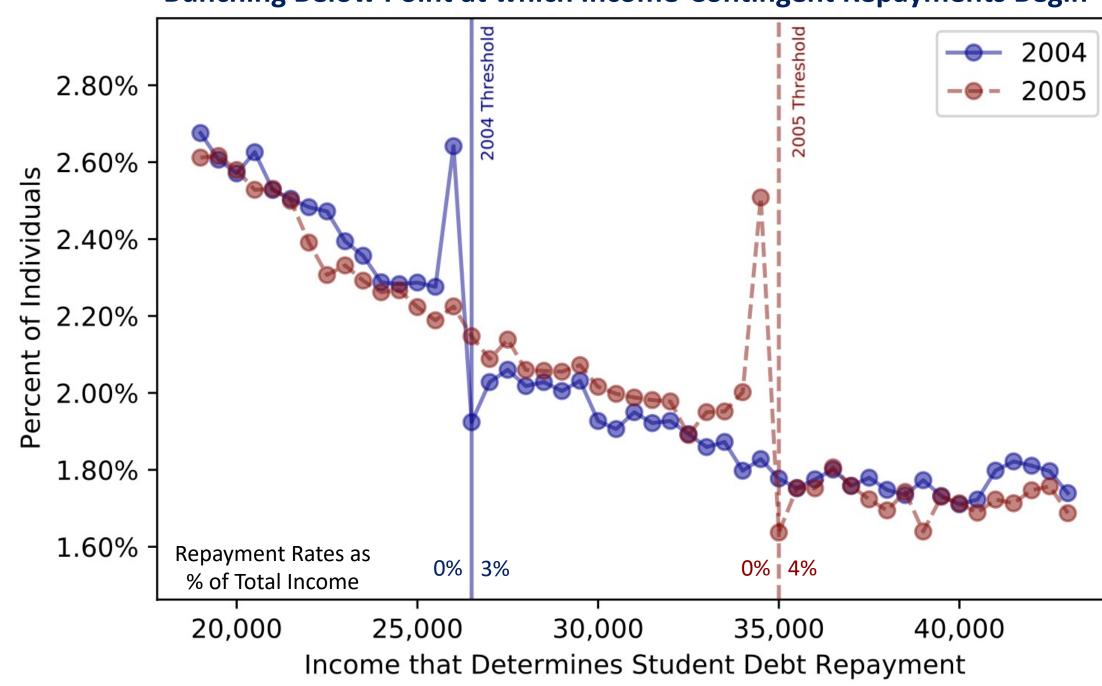


Empirical Strategy

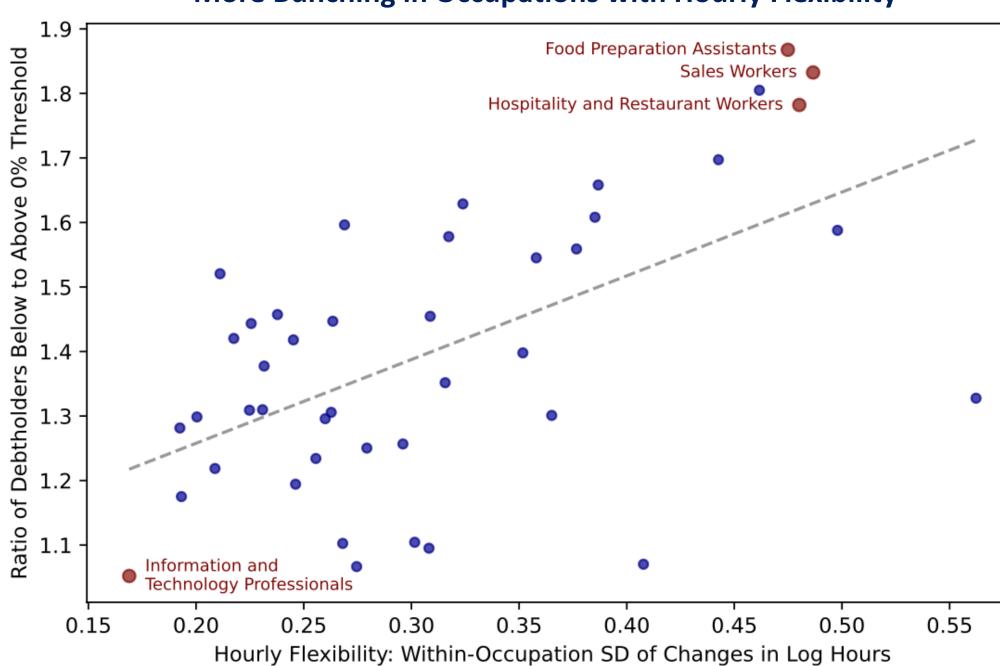
Data: income tax returns + student debt balances + repayments + household Census for all Australian citizens

Policy variation: change to design of gov't income-contingent loans

Bunching Below Point at which Income-Contingent Repayments Begin



More Bunching in Occupations with Hourly Flexibility



Key Ingredients in Structural Life Cycle Model

- Endogenous labor supply = moral hazard
- Optimization frictions = **dynamic** choice of labor supply
- Uninsurable risk + borrowing constraints = demand for insurance
- Planner that solves optimal policy problem with fixed budget
 - Baseline contract: 25-Year Fixed Repayment

Welfare Gains from Improving Insurance with Income-Contingent Contracts that Accelerate Payments from High-Income Borrowers

