Discussion of

"Automation and Inequality in Wealth Management"

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Summary

- Great paper. I wish that I had written it.
- My comments will focus on
 - Placing paper into broader literature
 - Challenges that arise when trying to extrapolate from treatment-on-treated (TOT) in selected sample of investors to intention-to-treat (ITT)
 - Challenges that households face when trying to estimate value-added by (costly) financial products

Motivating Empirical Fact

 Higher-income households save more and earn higher returns on investments than lower-income households



Lower-income households tend to save too little and invest their savings in suboptimal portfolios

 Differences in savings rates and investment returns directly contribute to wealth inequality

Broadest Possible Research Question

- Which policies and technologies are "best" at improving savings and investment decisions of middle-class and lower-class households?
 - Need to take into account the costs and benefits to households (e.g., financial education is beneficial but costly to offer and to acquire)
 - Need to take stand on how to measure improvements
 - Need to understand why these households have been making different choices than our models

Explanations for differential behavior of lower-income households?

		Savings	Investing
•	Higher value current consumption	X	
•	Lower financial literacy	X	X
•	Less trust in financial markets	X	X
•	More behavioral frictions	X	X
•	Higher search costs	X	X
•	Abnormally risk averse		X
•	Supply-side constraints		X

This paper: Middle-income households **know** they need help investing but previously lacked assets required to access better portfolios

1. Prior Interventions & Innovations

- Automatic enrollment in 401(k) plans for middle-income
 - Long-run effects of auto-enrollment on savings are positive but modest
- TDF as default investment option in 401(k) plans
 - Associated with greater risk-taking by less-sophisticated households
- State-sponsored retirement plans for low-income (OregonSaves)
 - Increase savings but jobs with low/volatile income limit participation
- Launch of Betterment (2010) and Wealthfront (2012)
 - Robo-advisors reduce cost of (taxable) portfolio delegation for highwealth investors with traditional advisors and/or improve (taxable) portfolios of high-wealth DIY investors

This Paper Studies Affect of Robo-Advisors on Lower- and Middle-Class Households

- Wealthfront drops minimum investment from \$5000 to \$500 in July 2015
- Change made possible by low cost of providing robo advice
- Demand by middle-class doubles; new participant median deposit drops from \$5000 to \$2000
- Robo-advised portfolios have higher expected returns and less volatility than DIY... but middle-income previously lacked liquid assets to invest in Wealthfront
- Relaxing supply constraint increases middle-income robo-advised household's welfare by 2%

2. Sample Selection

- Deposit Database: Income and inflows of all households who seek robo advice before or after reduction in investment minimum
 - Aware of robo + trust robo + expect to benefit from robo
- Portfolio Database: DIY and matched robo portfolios
 - Aware of robo + curious enough to share financial account information with robo
- 2016 Survey of Consumer Finance
 - Predict reliance on "INTERNET/ONLINE SERVICE" when "making decisions about saving and investments" and include inverse Mills ratio in some specifications
 - My tabulation: **20.8%** list "INTERNET/ONLINE" first; **41.9%** list it eventually → **question is capturing much more than awareness of robo-advice**

3. Evaluating Costs

- Household should only demand financial product when increase in expected utility (relative to counterfactual) justifies the cost
 - → This can be a complicated calculation!
- Wealthfront charges 0% up to \$10k
 - → Middle-class households can ignore cost... but this limits amount of money that can benefit from **free** robo
 - → Larger AUM pay higher % but receive more services
- Open question whether middle-class households could accurately estimate how much they should be willing to pay for robo-advice

4. Intention to Treat

- Document that treatment-on-treated (TOT) is large and positive
 - Positive effect is not surprising, but magnitude is quite interesting
- Demand for robo in model is driven by knowledge of positive TOT versus possible distortion from minimum required investment
 - Friction? Middle-class distrust algorithms?
 - Friction? Households overestimate quality of DIY portfolios?
 - Both frictions will limit set of middle-class households who benefit from democratizing wealth management
 - Fact most middle-class households currently lack access to robo-advice in 401(k) plans limits benefit of robo to (much smaller) taxable accounts

5. Welfare Effects

- Table 1: I remain puzzled that median investment of \$2000 (out of median liquid assets of \$18000) can increase welfare by 2%
 - Model does not allow for mixed management; does it assume that the other \$16000 is held in cash or managed by robo?
- What does Portfolio Database tell us about demand for robo?
 - Does demand respond to {Quality Counterfactual Robo Quality DIY}?
 - Does sensitivity correlate with household income, wealth, etc.?
- Comparison between TDF and robo is extremely interesting... but highlights that households could have improved DIY with TDFs
 - Why do households know robo >> DIY but not that TDF > DIY

Conclusion

- Middle-class (and high-class) households benefit from access to free robo advice... because DIY portfolios ain't great
- Middle-class households benefit from lower minimum investment amount because they have fewer liquid assets
- Impressive use of parsimonious (fully rational) model
- Excellent example of how supply-side changes can improve financial outcomes of middle-class households
- Remains unclear what fraction of middle-class households know they would benefit from robo advice and are open to robo advice