Oral and Written Testimony of Teresa Ghilarducci\* Where Typical Americans Have Their Wealth

#### UNITED STATES SENATE COMMITTEE ON BANKING, HOUSING, AND URBAN AFFAIRS

Hearing title: "Does Wall Street Always Win? GameStop, Robinhood, and Retail Investors" March 9, 2021 10:00 am

Oral Statement (624 words)<sup>1</sup>

Thank you for inviting me, Chairman Brown and Ranking Member Toomey and members of the Committee.

I am the Bernard Schwartz Chair of Economics at The New School in New York City, coming to that faculty in 2007 after teaching at the University of Notre Dame for 25 years. I received my PhD from UC Berkeley and serve as a court-appointed independent trustee of the Goodyear tire retirees' \$900 million health care trust fund and the autoworkers \$60 Billion retiree health fund.

My office hours are typically quiet moments huddling over equations. But over the past few years, students have been bubbly, asking about their trades on the phone-friendly trading platform, Robinhood. The young are told to buy stocks and hold them – but they absorbed the first point and missed the second.

Trading on Robinhood is a game with psychologically powerful intermittent rewards and is disconnected to long term wealth accumulation. Phone Apps makes trading easy and cheaper and superficially seems to open securities markets to many more people but they do not produce wealth.

<sup>&</sup>lt;sup>1</sup> Researchers at The New School, Michael Papadopoulos and Siavash Radpour, constructed the wealth data and Owen Davis helped with the Robinhood discussion.

I welcome today's hearing seeking to protect retail stock buyers from casino-type trades. And I want to emphasize that Americans' wealth does not come from retail stock trading. I am here to testify where Americans really get their wealth.

As you might guess, home equity and retirement wealth including Social Security<sup>2</sup> are the largest components of wealth<sup>3</sup> -- they make up  $88\%^4$  of the wealth held by near retiree households in the lower half of the wealth distribution; 78% for the middle class, and 43% for those in the top 10% (Table 2).

You might be surprised that Social Security is the most important source of household wealth for half of all households with workers nearing retirement. Social Security represents 58% of net wealth for near retirees in the bottom half of the wealth distribution; 27% for the middle class; and 7% for the top 10%.<sup>5</sup>

In contrast, directly-owned stocks (and bonds) make up a relatively small share of near retirees' wealth at 8%. Only 24% of older households own stocks directly, outside of their retirement account and that ownership is concentrated at the top. Only 10% of those in the bottom half of the wealth distribution own stocks, less than a third of the middle class.

And the wealthy are not rich because they directly own stocks. Though 70% of the top 10% directly own stocks, it is only 13% of their wealth. (They own businesses (15% of

<sup>&</sup>lt;sup>2</sup> We add the shares in the net value of primary residence, present value of expected Social Security benefits, value of DC plans and IRAs, and present value of defined benefit benefits. <sup>3</sup> Half of near-retirement households (with members aged 52 or over), those in the bottom half of the wealth distribution have less than \$296,000 wealth, including the value of their pensions and Social Security benefits. The *median* wealth for the middle class -- those in the next 40% of the wealth distribution -- is \$1.02 million. Households in the top 10% have a *median* net wealth of over \$3.2 million (Table 1).

<sup>&</sup>lt;sup>4</sup> Adding 19%+58%+11%=88%

<sup>&</sup>lt;sup>5</sup> A note about the racial wealth gap and Social Security. Whites, on average, have 83% more net wealth (Table 3) that non-whites. But the racial Social Security wealth gap is only 13% -- Social Security is the most equitably distributed source of wealth for Americans nearing retirement. Whites have 8 times the wealth in business, and 4 times the wealth in directly-held stocks, 58% more housing wealth and 2.4 times the retirement plan wealth compared to non-whites

their wealth), other real estate (15% of their wealth), and have 25% of their wealth in retirement accounts and pension plans.)

As Nobelist Robert Shiller recent book points out stock trading feeds a narrative, a story about wealth, trading is exciting because stocks fluctuate. Stories about getting rich on stocks produce a fiction that stock trading creates wealth, when, in fact, retail investors fuel bubbles.

Defenders of Robinhood and widespread trading have purchase because in the COVID recession people who own stocks have done well, which heightens the fear of missing out for those not buying stocks. The reality is they are being left out because they don't have access to retirement accounts, which is where most of us who own stocks hold them. Retirement accounts are invested in diversified portfolios managed by institutional investors and professionals who can manage the risks that come with investments in private equity, etc.. and other complex instruments.

But more than half of workers do not have a retirement plan at work, which means many households do not have any investment in stocks or are accumulate private wealth for their retirement. (Radpour, Papadapoulos, and Ghilarducci 2021).

Any retail brokers' claims that trading democratizes access to wealth only takes advantage of people's fears. I do not recommend opening up high-risk and expensive alternative investments to the retail investor it can make risk and inequality worse..<sup>6</sup>

Robinhood founders frequently invoke their experience as part of the Occupy movement to explain why they want to democratize finance. But safe and professionally managed diversified investments, not trading apps, are the path to economic security. Successful investors know that "time in the market" and diversification, which are among the many

<sup>&</sup>lt;sup>6</sup>Demand for lottery-like stocks increases during economic downturns and is more prevalent among vulnerable groups: poor young men, African Americans and Latinos. (Kumar 2009) Some types of retail trading resemble gambling disorders. (Grall-Bronnec et al 2017). New technologies make stock trading more like gambling. Apps like Robinhood make gambling stocks more accessible. Two to three percent of gamblers become addicted. Trading can become an addiction, akin to gambling addiction.

benefits of **professionally-managed** retirement plans, are what works. Unlike "timing the markets," which does not work, yet is that is what trading apps encourage.

We need innovations in public policy to give more Americans access to what we know works - professionally-managed retirement coverage that allows everyone to benefit from the stock markets the same way you and I do in Thrift Savings Plan, in a private or public defined benefit plan, or in my pension plan Teachers Insurance Annuity Association.

#### End of Oral Statement

#### Wealth Holdings

The typical household whose members are nearing retirement earn about \$65,000, their average wealth of over \$1 million is barely relevant since the very wealthy pull up the average beyond reality. Because most Americans do not have significant wealth until their fifties, I focus today on those nearing retirement age, defined as households with one worker 52 or over.

The typical near-retirement household in the United Statesearns between \$55,000 to \$75,000 per year and has an average net wealth of \$1,.67 million. I don't report the income distribution tables, but am reporting the wealth distribution. When dividing up the over near retiree population This sounds like a large number, but - as you know - averages hide important differences (as witnesses testified in your March 3 hearing) and means and medians don't give you a complete picture. So I am going to report wealth in terms of wealth distribution, looking at the differences between those in the bottom 50%, the next 40% and the top 10% of the wealth distribution. (These are categories recommended by French economist Thomas Piketty (2015).

For those in the bottom half of the wealth distribution, the median net wealth is \$295,724; for those in the next 40%, it is \$1,019,239; and for those in the top 10%, median net wealth is \$3.19 million. You may be surprised that home equity in a primary residence is not the largest share of wealth across all income groups. It is only 12% of net wealth for those in the top 10% (they own other real estate) and about 20% for the bottom 90%.

Social Security is the predominant source of household wealth for near retirees. As a promised stream of income for the rest of your life, indexed to inflation, Social Security represents 24% of net wealth, which falls as income goes up. Social Security matters much more for lower wealth holders who are likely lower earners: 58% of total wealth is in Social Security for the bottom half of the wealth distribution, 27% for the middle and 7% for those at the top. Retirement savings in the form of defined contribution savings plans and individual retirement accounts are next, representing 17% of households net wealth, only 8% on the bottom, 21% for middle and 16% for those on the top. Traditional pensions, or benefits from a defined benefit plan, represent only at 8% because they have been replaced by 401(k)s, only 3% for the bottom and 9% for the top half.

	Mean				Median			
	All	Bot. 50%	Next 40%	Тор 10%	All	Bot. 50%	Next 40%	Top 10%
Primary Residence net of mortgage debt	178,758	63,472	234,469	533,339	105,000	38,000	180,000	400,000
Other Real Estate net of mortgage debt	95,838	7,254	58,810	677,822	0	0	0	160,000
Vehicles net of car loans	22,273	14,099	27,727	41,376	15,000	9,000	20,000	27,000
Social Security	253,525	196,600	307,671	321,702	254,044	192,604	300,124	274,966
Retirement Savings and Benefits (DC, DB, IRA)	270,226	37,314	343,114	1,135,697	51,000	0	237,800	823,000
Business (net)	82,950	2,618	32,280	689,153	0	0	0	0
Stocks	82,361	4,212	49,709	605,311	0	0	0	140,000
Bonds	12,786	191	2,651	116,630	0	0	0	0
Checking/Savings Accounts	38,790	8,879	44,568	165,598	7,000	2,000	15,000	50,000
CDs, Savings Bonds, T-Bills, and Other Savings	35,855	4,426	28,243	224,020	0	0	0	5,000
Total Wealth	1,073,362	339,065	1,129,242	4,510,648	600,824	303,844	1,025,924	3,189,109
Non Real Estate Debt	8,285	47	7,173	5,240	0	0	0	0
Net Wealth	1,065,077	339,018	1,122,069	4,505,408	594,049	295,724	1,019,239	3,188,181

 Table 1: Mean and Median Wealth by Wealth Percentile Group for Households with At Least One Worker Over 52

Source: Michael Papadopolous et. al. calculation using the Health and Retirement Study 2016 wave.

**Notes:** Stock and bond categories represent direct ownership (i.e., outside of 401(k)-type plans). Wealth cutoffs for single households are \$319,000 and \$1,227,915. Wealth cutoffs for married households are \$736,049 and \$2,526,249. Amounts for defined benefit plans and Social Security benefits reflect the present value of expected benefits in retirement assuming retirement and claiming at Full Retirement Age. Values for real estate reflect net equity (value of home minus mortgage debt).

	Share Having Any				Share of Net Wealth			
	All	Bot. 50%	Next 40%	Top 10%	All	Bot. 50%	Next 40%	Тор 10%
Primary Residence net of mortgage debt	78%	64%	91%	98%	17%	19%	21%	12%
Other Real Estate net of mortgage debt	28%	16%	34%	61%	9%	2%	5%	15%
Vehicles net of car loans	89%	85%	93%	95%	2%	4%	2%	1%
Social Security	100%	100%	100%	100%	24%	58%	27%	7%
Retirement Savings and Benefits (DC, DB, IRA)	66%	46%	85%	96%	25%	11%	31%	25%
Business (net)	11%	5%	13%	31%	8%	1%	3%	15%
Stocks	24%	10%	31%	70%	8%	1%	4%	13%
Bonds	5%	1%	6%	22%	1%	0%	0%	3%
Checking/Savings Accounts	83%	75%	91%	96%	4%	3%	4%	4%
CDs, Savings Bonds, T-Bills, and Other Savings	27%	16%	34%	55%	3%	1%	3%	5%

 Table 2: Share of Total Wealth and Share Having Any Wealth in Category by Wealth Percentile Group for Households with

 At Least One Worker Over 52

Source: Michael Papadopolous et. al. calculation using the Health and Retirement Study 2016 wave.

**Notes:** Stock and bond categories represent direct ownership (i.e., outside of 401(k)-type plans and IRAs). Wealth cutoffs for single households are \$319,000 and \$1,227,915. Wealth cutoffs for married households are \$736,049 and \$2,526,249.

	Mean		Median		Share Having Any		Share of Net Wealth	
	White	Nonwhit	White	Nonwhit	White	Nonwhit	White	Nonwhite
		e		e		e		
Primary Residence net of mortgage debt	193,084	122,524	120,000	60,000	82%	64%	16%	19%
Other Real Estate net of mortgage debt	100,618	77,080	0	0	29%	22%	9%	12%
Vehicles net of car loans	23,821	16,199	15,000	10,000	92%	78%	2%	3%
Social Security	259,594	229,702	261,724	215,644	100%	100%	22%	36%
Retirement Savings and Benefits (DC, DB,	304,893	129,102	82,918	0	71%	46%	26%	20%
IRA)								
Business (net)	100,936	12,346	0	0	12%	6%	9%	2%
Stocks	97,348	23,533	0	0	27%	13%	8%	4%
Bonds	15,529	2,022	0	0	6%	2%	1%	0%
Checking/Savings Accounts	43,763	19,265	9,000	1,500	87%	67%	4%	3%
CDs, Savings Bonds, T-Bills, and Other Savings	41,563	13,453	0	0	29%	17%	4%	2%
Total Wealth	1,181,149	645,226	675,166	387,604				
Non Real-Estate Debt	8,318	8,153	0	0				
Net Wealth	1,172,831	637,073	667,924	376,204				

Table 3: Descriptive Statistics for Wealth by Race of Household Head for Households with At Least One Worker Over 52

Source: Michael Papadopolous et. al. calculation using the Health and Retirement Study 2016 wave.

**Notes:** Stock and bond categories represent direct ownership (i.e., outside of 401(k)-type plans). Amounts for defined benefit plans and Social Security benefits reflect the present value of expected benefits in retirement assuming retirement and claiming at Full Retirement Age. Values for real estate reflect net equity (value of home minus mortgage debt).

## **Policy Implications**

Overall, I think the focus on broader wealth accumulation and retirement assets is the right way to go. We need to add accrued Social Security benefits to retirement wealth which helps reduce the retirement wealth gap between low and high earners and keeps retirees out of poverty, American workers still face a wealth crisis. Policymakers need to strengthen and expand Social Security and mandate employer-sponsored retirement plans to ensure universal coverage and adequate retirement income. Policymakers need to pay attention to the risks of student debt and home mortgages. We need better regulation of fin tech to be sure, the future generation depends on our stewardship. The most important source of savings, though, is income, savings are a residual from people's earnings. They can't buy a house and contribute to a pension without decent earnings. This is not a rhetorical point, it is rooted in economic research on savings. We need to increase minimum wage and raise wages.

## **Social Security Wealth**

Social Security reduces - but does not eliminate - retirement wealth inequality. For typical workers age 51-56, accrued Social Security benefits exceed employer-sponsored retirement wealth. Median Social Security wealth amounts to \$81,900 compared with \$67,000 in employer-sponsored retirement plans.

At ages 51-56, the typical low-wage worker (in the lowest 20% of earnings) has no retirement wealth. The typical high-wage worker (in the highest 20% of earnings) has wealth equal to almost two and a half times their earnings.

Adding accrued Social Security benefits to retirement wealth decreases the retirement wealth gap between low and high earners from two and a half times earnings to just over half a year's earnings (see Ghilarducci, Radpour, and Webb 2020).

To calculate Social Security wealth for this testimony, I impute a career earnings trajectory for each worker using two factors: (1) current earnings in the survey year [2016] and (2) scale factors from a Social Security Administration Actuarial Note published by Clingman and Burkhalter (2016). This career earnings trajectory is then used to calculate AIME and PIA, giving us the Social Security Retired Worker benefit. We assume all workers claim the Retired Worker benefit. We assume a worker collects benefits for 13 years, and therefore multiple annual benefits by 13 -- the actuarial factor (Carlson 2020), giving us an estimate for Social Security wealth.

# **Trading and Investment**

It's well-known that individual investors underperform on average, and app-based day-trading may be making this performance gap between underperforming app trading and other portfolios worse. In general, retail investors' returns are lower on average than returns to low-cost index funds and certainly less rewarding in terms of risk - adjusted returns to a professionally-managed defined benefit portfolio. (Barber and Odean, 2013).

Retail investors tend to sell good stocks too soon and hold bad stocks too long-- the endowment effect -- and engage in myopic and salient trading patterns (a recent event is viewed as more likely to happen than it is) and they tend not to be diversified enough, professionals with a broad information base have more holdings.(Barber and Odean, 2013).

Recent evidence using Robinhood data finds that frequently bought stocks on the app seriously underperform due to what authors call "extreme herding" events (Barber et al, 2021). And a recent study using data on German households found that switching from desktop computers for investing to smartphone apps led investors to "increased purchasing of riskier and lottery-type assets and chasing past returns" (Kalda et al, 2021).

Fintech is not all bad -- Apps like Betterment, Wealthfront, and Acorns are geared more toward patient, long-term investing than impulsive day trading. Owen Davis, graduate student at the New School helped with this section.

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