

Subjective Evaluations of Financial Satisfaction and Well-being: A Study of the US General Social Survey*

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This paper examines the subjective evaluations of financial satisfaction and well-being, and how they are influenced by various factors. Using data from the US General Social Survey, we explore how people understand their financial situations in comparison to others, subsetting by different demographic factors, against the backdrop of an increasing wealth gap between high and low earning individuals. The paper discusses the sociological dynamics and cognitive biases that affect these subjective evaluations, and highlights the importance of considering these factors in understanding financial satisfaction and well-being.

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*Code and data supporting this analysis is available at: <https://github.com/christina-wei/INF3104-3-US-Survey.git>

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1 Story

Introduction - news, inflation, millennials and younger not doing better than their parents

% of financial compare & % financial satisfaction - in 2021

Let's dig deeper into 2021

- gender
- education
- Social class
- age

How financial compare / financial satisfaction changed over the years - follow cohort and age

How does social class impact these perceptions? - link to Michaela's literature

2 To Do

Christina

- financial satisfaction
- Social status
- Simulated data
- Data validation tests
- README

Michaela

- Supplementary survey: The survey should have an introductory section and include the details of a contact person. The survey questions should be well constructed and appropriate to the task. The questions should have an appropriate ordering. A final section should thank the respondent
- Introduction
- Discussions
- Limitations & Future Work

3 Introduction

Financial satisfaction and well-being are subjective self-evaluations that can be influenced by a wide variety of different factors. However, the COVID-19 pandemic and the ensuing inflation rates have shown that pressures that economic trends bring on affect different demographics disproportionately. While the pandemic was a shared global experience, individual experiences of its implications were not.

In this paper, we use data from the US General Social Survey (GSS) from NORC at the University of Chicago to better understand how people understand their own financial situations in comparison to others, against the background an increasing wealth gap between higher and lower earning individuals. We subset and visualize the data by a variety of different demographic factors, such as gender, age, level of education, along with views of how different generational cohorts report their financial well-being over time.

Overall, the data supports general hypotheses that over time, the rich are getting richer, the poor are getting poorer, and that Millennials and Gen Z are financial worse off than preceding generations. When faceting by social class, the data provides evidence that individuals understandings of their financial well-being and satisfaction are influenced by their reference groups.

A significant number of respondents who self-reported as upper class still reported dissatisfaction, and described their financial situation as being “below average”. In our discussion, we explore the different ways in which sociological dynamics and cognitive biases can affect how someone might understand their own financial situation, along with other factors specific to the survey’s limitations that shape this statistic.

4 Data

Data used in this paper are retrieved from the US General Social Survey (GSS) from NORC at the University of Chicago (NORC 2021b). We retrieved demographic data as well as survey questions related to financial wellness from 1972 to 2021.

4.1 Source Data

Specifically, we retrieved the following demographic data.

Variable	New Name	Description	Example
age	age	Respondent’s age	56
cohort	cohort	Birth cohort of respondent	1965
sexbirth1	gender	sex recorded at birth	Female
marital	marital	Respondent’s marital status	Divorced
degree	degree	Respondent’s degree	Bachelors
income16	income	family income recorded in 2016	\$50,000 TO \$59,999

For survey questions related to financial wellness, we retrieved the following data points:

Variable	New Name	Description	Example
satfin	financial_satisfaction	Respondent’s satisfaction with their current financial situation	Pretty Well Satisfied
finalter	financial_change	Changes in respondent’s financial situation	Stayed the same
finrela	financial_comparison	Comparing respondent’s family income with American families in general	Above Average
class	social_class	self identified social class the respondent belong in	Middle Class
class1	social_class1	self identified social class the respondent belong in (more granular than social_class)	Upper Middle Class

4.2 Data Limitations

Since 1972, the General Social Survey (GSS) has been tracking trends in public opinion through in-person interviews. Due to the COVID-19 pandemic, the GSS had to change their data collection from in-person to address-based sampling and a push-to-web methodology, meaning that most of the interview was conducted with an online self-administered questionnaire. When using this primarily mail-based communication, the 2021 GSS asks for “the person with the most recent birthday, rather than a random person in the household” to respond to the survey.

4.2.1 Gap in 2020 data

This change in data collection methodology has limitations. First, data from the year 2020 is not recorded, which is inconsistent with the yearly GSS track record. Because the GSS data collection spans 2020 and 2021, the reference year for the 2021 GSS for questions where, for instance, respondents are asked for their income “last year”, is 2019. Second, in the 2021 GSS, people below the age of 30, people without high school degrees, and Black respondents completed less surveys, proportionally, than their 2018 counterparts.

4.2.2 “Don’t know” responses

Shifting from in-person interviewing to online data collection required the GSS to find a new approach to appropriately recording responses when respondents expressed uncertainty, indecision, or a refusal to answer. Interviewers in previous rounds of the GSS had specific training in how to record “Don’t Know” responses, which occurred when respondents either refused to answer a question or did not know the answer to a question. The 2021 GSS had no interviewers in the web mode to appropriately record these responses, so, in order to mitigate this change in mode, no item on the GSS shows “No Answer”, unless the module sponsor requested that it be included. The exception to this was factual questions about occupation, income, or family background, since respondents could genuinely not know the answer, rather than being indecisive on the answer. Instead of “No answer” or “Don’t know”, users could skip the question. “Skipped on web” indicates that users read the questions but skipped it.

4.2.3 Survey Experimentation

The added element of having a user interface allowed for experiments in survey recording that, according to the GSS’ initial review of the data, made a difference in the results. For instance, the 2021 GSS displayed questions that shared a theme in a grid together, so that respondents could answer three or four thematically linked questions at the same time. The GSS tested abortion items and suicide items in both the traditional and grid format, which items asked in a grid marked with a -G suffix. The 2021 GSS also conducted an experiment with volunteered responses. In the past, respondents frequently volunteered information (for instance, “just

Table 3: Summary statistics for number of observations in surveys

mean	max	min	sd
2086.2	4510	1372	788.7

right” rather than “too harsh” or “not harsh enough”), which interviewers had training for recording appropriately. In the online format, the GSS included a volunteered response on the screen in some cases, where the variable is marked with a -V suffix, and removed the option entirely for other respondents, marking the variable with an -NV suffix.

4.2.4 Impact on our study

Any changes in opinions observed in 2021 relative to historical trends may be due to the changes in methodology. While the incomes reported are from 2019, the emotions recorded (i.e. financial satisfaction, financial comparison), are from 2021, after a year when many people lost their jobs, moved cities, or had other changes in household arrangements and income. While this has less of an impact on long-term visualizations of reported satisfaction over time, analyses of reported satisfaction based on income levels using 2021 data will be influenced by this gap.

4.3 Data Cleaning

Data was cleaned and analyzed using the open source statistically programming language R (R Core Team 2022), using functionalities from `tidyverse` (Wickham et al. 2019), `ggplot2` (Wickham 2016), `dplyr` (Wickham et al. 2022), `readr` (Wickham, Hester, and Bryan 2022), `tibble` (Müller and Wickham 2022), `haven` (Wickham, Miller, and Smith 2022), `here` (Müller 2020), `formattable` (Ren and Russell 2021), `kableExtra` (Zhu 2021) and `knitr` (Xie 2014).

After downloading and filtering for the desired source data values from GSS¹, we performed data cleaning on each one of the columns based on value definitions as defined in GSS codebook (NORC 2021a), as well as cleaning up column names. For example, the column `sexbirth1` has been renamed to `gender`, with the value 1 updated to “Male”, and the value 2 updated to “Female” based on mapping in the codebook.

Overall, there are 68,846 observations collected across 33 surveys administered over the years. On average there are 2086 observations per survey, with the maximum number of 4510 observations in year 2006, and minimum number of 1372 observations in year 1990. The standard deviation for the number of observations per survey is 788 (see Table 3).

¹https://gss.norc.org/documents/stata/GSS_stata.zip

Table 4: Number of respondents by gender for 2021 survey

Gender	Number of Responses	Percentage
Male	1730	42.9%
Female	2198	54.5%
NA	104	2.6%

5 Results

5.1 Respondent Demographics in 2021 Survey

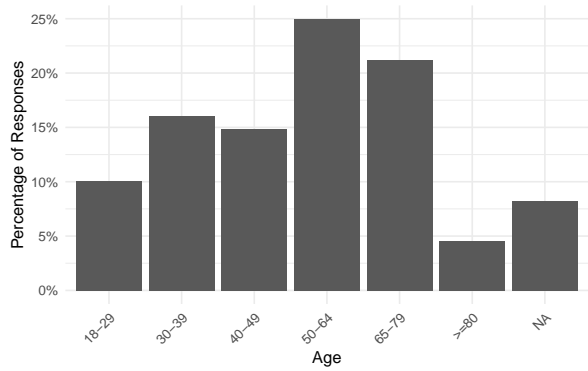
In 2021, there are 4032 responses recorded for the US General Social Survey. Out of these responses, 1730 (42.9%) of the respondents identified as male, 2198 (54.5%) identified as female, with 104 (2.6%) of them did not identify their **gender** in the survey (Table 4). Other than gender, we also looked at four different dimensions of respondents’ demographics: age, marital status, degree of education and family income.

The average **age** of respondents who responded in 2021 is 52 years old. Looking at the age distribution in Figure 1a, we see a good spread of values across the different categories, but with noticeably smaller number of respondents less than 29 years old, and those who are over 80 years old. It would be interesting to compare this to the demographic data across United States to see if this is a representative sample of the general population. There are also a large number of NA records for age responses, accounting for 8.3% of our data. Based on GSS codebook, 5.6% respondents chose “Not Applicable” when asked about their age, while 2.7% of the participants did not provide any answers.

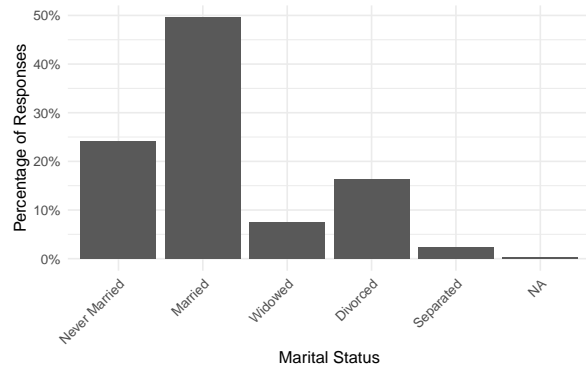
Most of the respondent provided an answer to their **marital status** (Figure 1b). About half (49.6%) of the respondents are married as of the time of completing the survey, followed by 2.41% who were never married. The rest of the respondents selected either divorced (16.2%), widowed (7.5%), or separated (2.4%).

Respondents’ **level of education** was also well answered by respondents (Figure 1c), with only 23 NA responses (0.6%). A significant portion of the respondents reported high school as their highest level of education (39.6%), followed by those who have a junior college or bachelors degree (34.9% combined). There are 18.8% of the respondents with a graduate degree, and 6.1% of them reported having less than high school education.

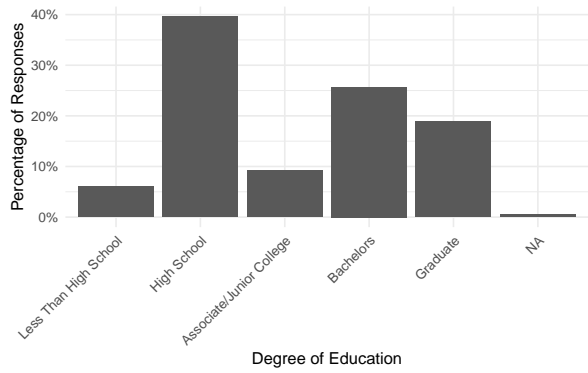
Looking at the respondents’ **family income** as of 2016 (Figure 1d), the first thing that jumps out is the number of NA values, accounting for 12.9% of the data. Based on GSS codebook, 8.3% respondents chose “Don’t Know” for their income, 2.0% refused to answer the question, and 2.7% skipped the question all together. Otherwise, there seems to be a good spread of the number of respondents in each of the income bands, with half of the respondents reporting family income less than \$75,000. The last income band “>\$170K” groups all respondents



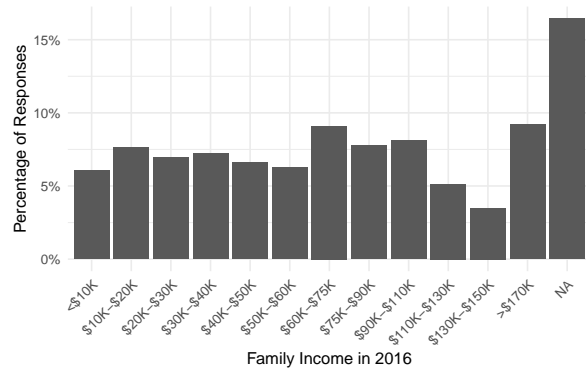
(a) Age



(b) Marital Status



(c) Level of Education



(d) Family Income

Figure 1: Distribution of Respondents' Demographics

making over \$170,000 into one bucket. It reduces the insights we can glean from the data, for example, how much more than \$170,000 are there respondents making per year.

5.2 Attitudes Towards Financial Wellness

As estimands to assess societal attitudes towards financial wellness in United States, we looked at the results of following survey questions:

- **Financial Satisfaction** - We are interested in how people are getting along financially these days. So far as you and your family are concerned, would you say that you are pretty well satisfied with your present financial situation, more or less satisfied, or not satisfied at all?
- **Comparing to Others** - Compared with American families in general, would you say your family income is far below average, below average, average, above average, or far above average?
- **Change in Financial Situation** - During the last few years, has your financial situation been getting better, worse, or has it stayed the same?
- **Self-Identified Social Class** - Most people see themselves as belonging to a particular class. Please tell me which social class you would say you belong to?

Based on Figure 2a, it looks like our society is not doing too badly with their current financial situation. Only 23.9% reporting “not satisfied at all” on the question asking whether they are satisfied with their financial situation. Similarly, most respondents reported that they are staying the same or getting better in their financial situation, with only 20.1% feeling they are getting worse financially (Figure 2b).

To analyze how respondents compare themselves to others, we look at Figure 2c on how they ranked themselves against American families in general. This graphs shows that most individuals feel like they are on par with others (39.5%), with small number of respondents feeling above average (24.8%) and below average (24.3%). However, 7.1% of respondent felt that they are far below average compared to other families in general, and 3.8% felt they are far above average.

Looking at how respondents self identified their social classes (Figure 2d), we noticed an interesting pattern that there are similar percentages for respondents who rated themselves as far below average (7.1%) and those who classified themselves as lower class (8.7%). Also, the percentages are similar for respondents who rated themselves as far above average (3.8%) and those who classified themselves as upper class (4.2%). Most respondents identified themselves as middle class (49.6%) or working class (37.2%).

Digging further into the relationship between self identified social class and how respondents compare their financial situation with others, we visualized their correlation using Figure 3. There is a clear trend shown in this heatmap: as individuals rank themselves higher in social class, they also perceive their financial situation to be better than the general public.

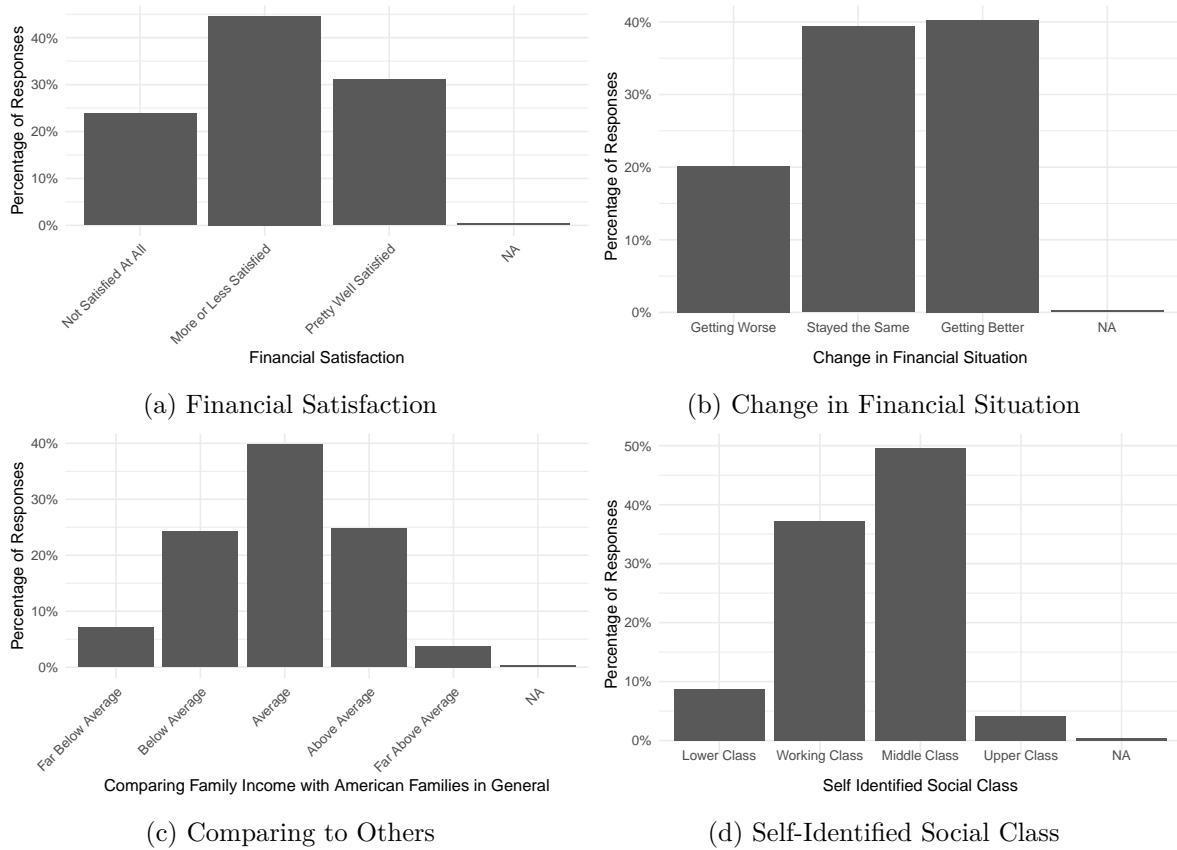


Figure 2: Distribution of respondents' attitudes towards their financial wellness

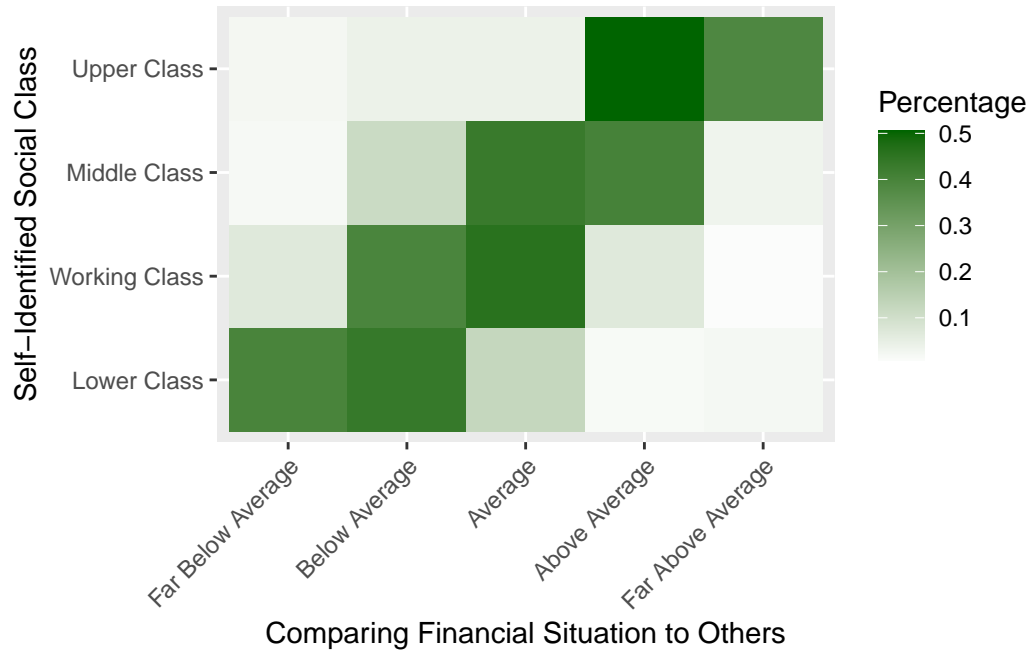


Figure 3: Correlation between social class and comparing financial situation with others

5.3 Slicing Financial Attitudes by Demographic Factors

Now that we have a general understanding of the respondent demographics and their attitudes towards financial wellness, let's take a look at the intersections between the attitudes and the demographics.

5.3.1 Gender

Compare across different genders (defined as sex at birth), we noticed in Figure 4a that there are more female respondents who are not satisfied with their financial situations (26.3%) as compared to male respondents (20.5%). Also, there are more female respondent reporting that their financial situation is getting worse (22.7%) compared to male respondents (16.7%) (Figure 4b). When comparing their financial situations to others, more proportion of male respondents (30.2%) rated themselves as above average as compared to female respondents (21.3%) (Figure 4c). These results triangulated together shows that women in our society may be more disadvantaged in their financial wellness as compared to men.

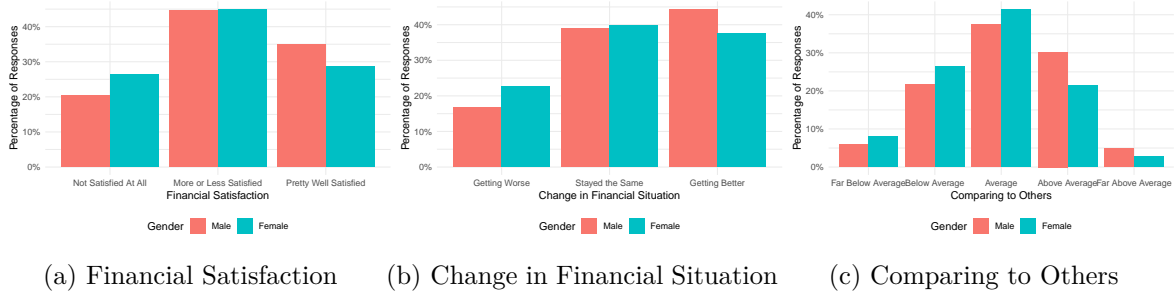


Figure 4: Intersection of financial attitudes with gender

5.3.2 Age

Are we achieving better financial wellness as we get older? We found evidence to support this in the 2021 GSS data, as Figure 5a demonstrates that the percentage of respondents who selected “pretty well satisfied” over time increases as age increases. However, it is interesting to note that the percentage of responses with “not satisfied at all” within an age band increases in the early adulthood, then decreases starting with the 40-49 age band.

Looking at how respondents assessed changes in their financial situation, we see in Figure 5b the concerning trend over the age groups that the percentage of those selecting “getting worse” as an answer stays roughly constant at around 20%, showing no reductions over the age bands. On the other hand, the responses for “getting better” starts off high at around 50% at younger ages, then drops off starting with the 40-49 age band. Staring with the 50-64 age band, most users rate their financial situation to be “staying the same”.

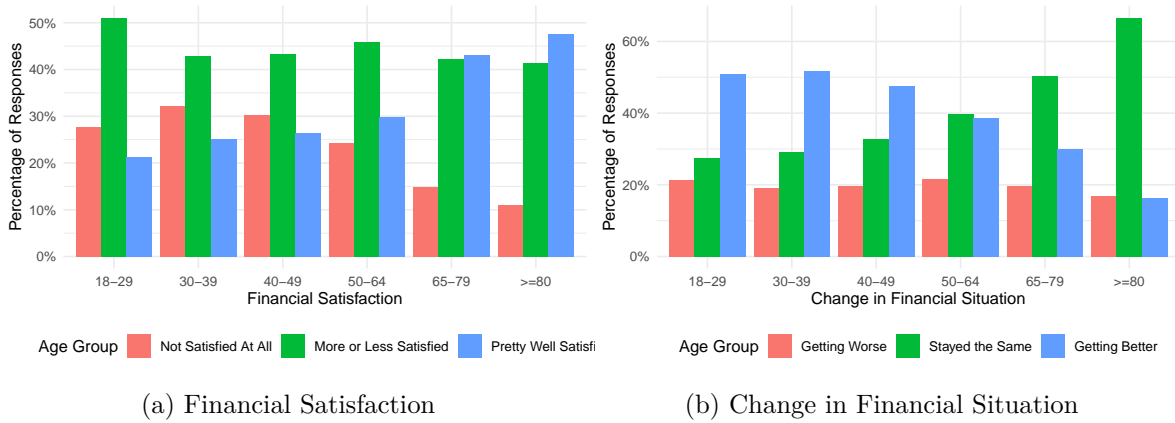


Figure 5: Intersection of financial attitudes with age

5.3.3 Level of Education

The 2021 GSS data shows that having a higher level of education is correlated with higher financial satisfaction. In Figure 6a there is a trend of decreasing percentages of answers for “not satisfied at all” as level of education increases, as well as an increasing percentages of responses for “pretty well satisfied” as the level of education increases. This finding is supported by the survey results for respondents’ perceptions on the changes in the financial situation (Figure 6a). As the level of education increases, there is a noticeable increase in the percentages of answers for “getting better” in their financial situation. Stay in school kids, it will help you financially in the long run.

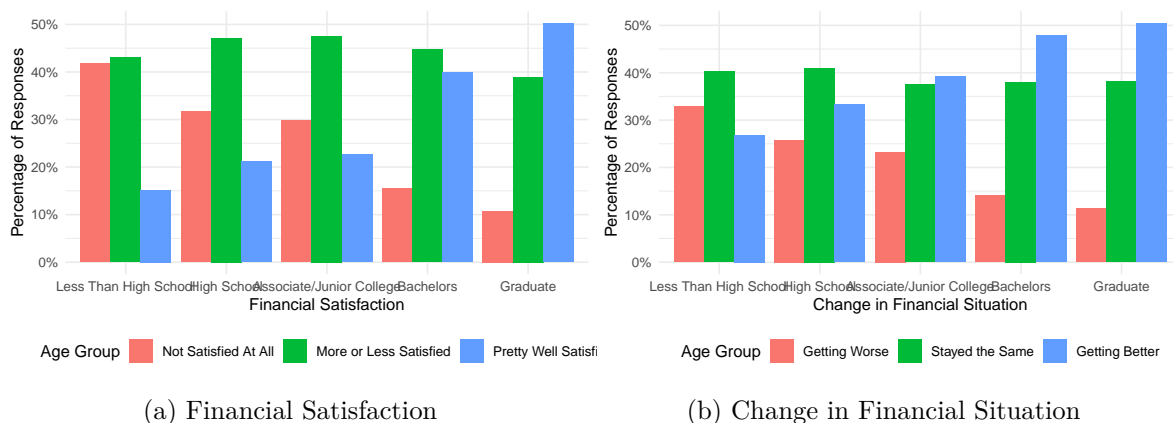


Figure 6: Intersection of financial attitudes with level of education

5.3.4 Family Income

As a hypothesis, we would expect attitudes towards financial wellness is highly correlated with respondents’ financial income. This is supported in our data, as Figure 7a shows that there is a high percentage of respondents with family income less than \$30K reporting not being satisfied with their current financial situation. On the flip side, the majority of respondents making \$170K and above are pretty well satisfied with their current situation. There is also the general trend that as the family income increases, the percentage of being satisfied with their current situation also increases. Looking at the changes in financial situation, the data shows that those making less than \$30K are getting worse or staying the same, while the majority of respondents making more than \$110K are getting better in their financial situations (Figure 7b).

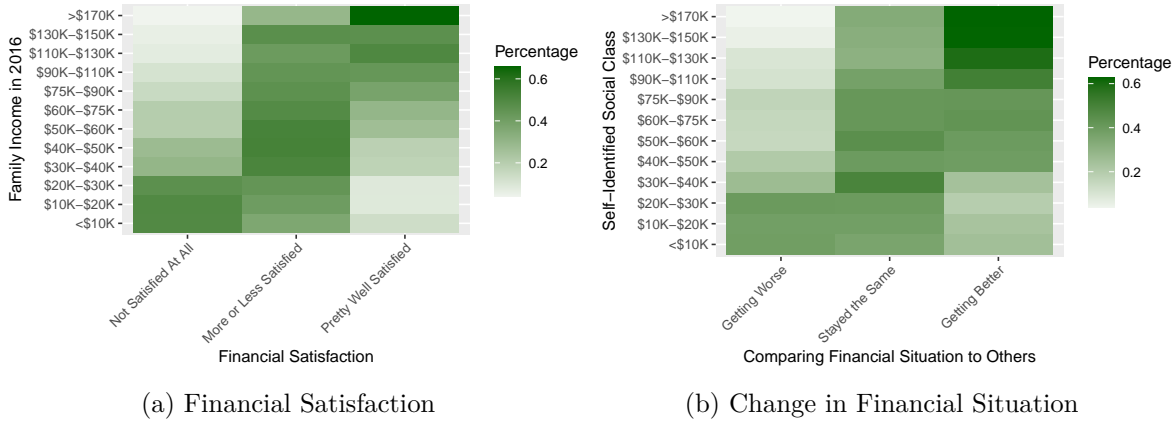


Figure 7: Intersection of financial attitudes with family income (2016)

5.4 Attitude Towards Financial Wellness Over Time

After investigating different demographic factors that are correlated to respondents' attitudes towards financial wellness, we want to understand how these attitudes evolve over time.

5.4.1 Financial Satisfaction & Comparison with Others

In Figure 8a, responses for financial satisfaction are graphed between 1972 to 2021. Based on this graph, we noticed that the percentage of respondents feeling “more or less satisfied” with their financial situations stays flat over time at around 44%. There is a downward trend for the percentage of responses for “pretty well satisfied”, as well as an upward trend for the percentage of responses for “not satisfied at all”.

Looking at how respondents feel about their financial situation as compared to the general public in Figure 8b, there is a noticeable decline in the percentage of responses for “average”, from 57% in 1972 to 40% in 2021. The percentage of the other responses all have a similarly slightly positive upward trend. This graph shows indications that financial satisfaction has become more divided in society between the rich and the poor.

5.4.2 Cohort

Next we looked at how each generation cohort is doing over time. We defined the generations based on the commonly accepted guidelines (Robinson, n.d.). Based on Figure 9 we found the following trends:

- **The Greatest Generation (Greatest)**, defined as those born between 1910 and 1924, are between the ages 48 and 64 when the survey started to collect data in 1972. They

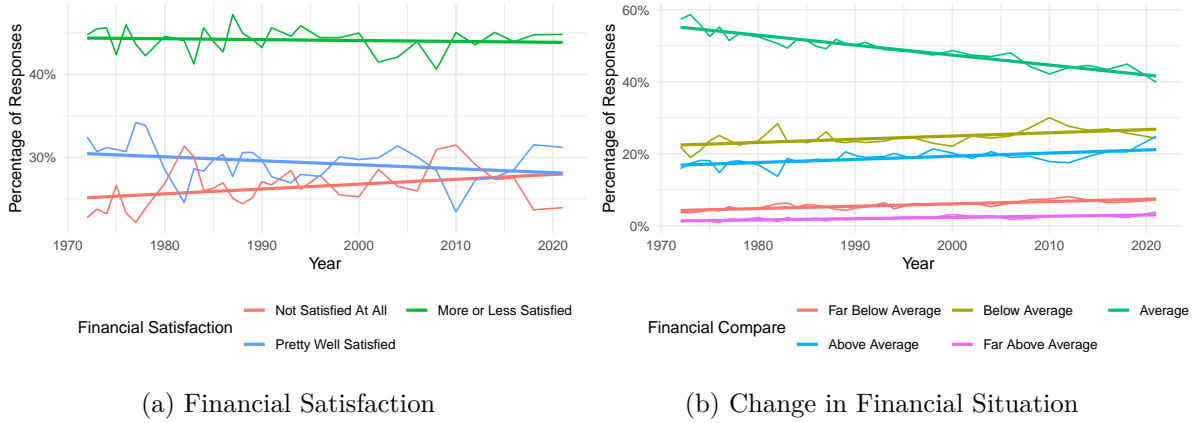


Figure 8: Attitude towards financial wellness over the years

are generally getting more satisfied with their financial situation over time, as shown by increasing “pretty well satisfied” and decreasing “not satisfied at all” response percentages.

- **The Silent Generation (Silent)**, defined as those born between 1925 and 1945, are between the ages 27 and 47 when the survey started to collect data in 1972. They were more dissatisfied with their financial situation to start with, but has increased their financial satisfaction over time, with close to 50% responded with “pretty well satisfied” as of 2021.
- **Baby Boomer Generation (Boomer)**, defined as those born between 1946 and 1964, with some of them as young adults when the survey started to collect data in 1972. They were dissatisfied with their financial situation at the beginning, with more than 30% responding that they are “not satisfied at all”. We have seen improvements over time, with increasing percentages of “pretty well satisfied” responses and decreasing percentages of “not satisfied at all” responses.
- **Generation X (Gen X)**, defined as those born between 1965 and 1979, show up for the first time in survey data in 1983 when the eldest in this generation turned 18. This group has a high percentage of respondents dissatisfied with their financial situation (~30%), while about 25% of them are pretty well satisfied. Their attitudes towards financial satisfaction stay pretty much the same throughout the years.
- **Millennials**, defined as those born between 1980 and 1994, show up for the first time in survey data around year 2000. This group starts with a higher satisfaction with their financial situation (~30%), but it decreases over the years with only ~20% responding with “pretty well satisfied” in 2021.
- **Generation Z (Gen Z)**, defined as those born between 1995 and 2012, show up for the first time in survey data in year 2013 when the eldest in this generation turned 18. This

group starts with the highest satisfaction with their financial situation (~45%), but then it drastically declines to only ~20% responding with “pretty well satisfied” in 2021.

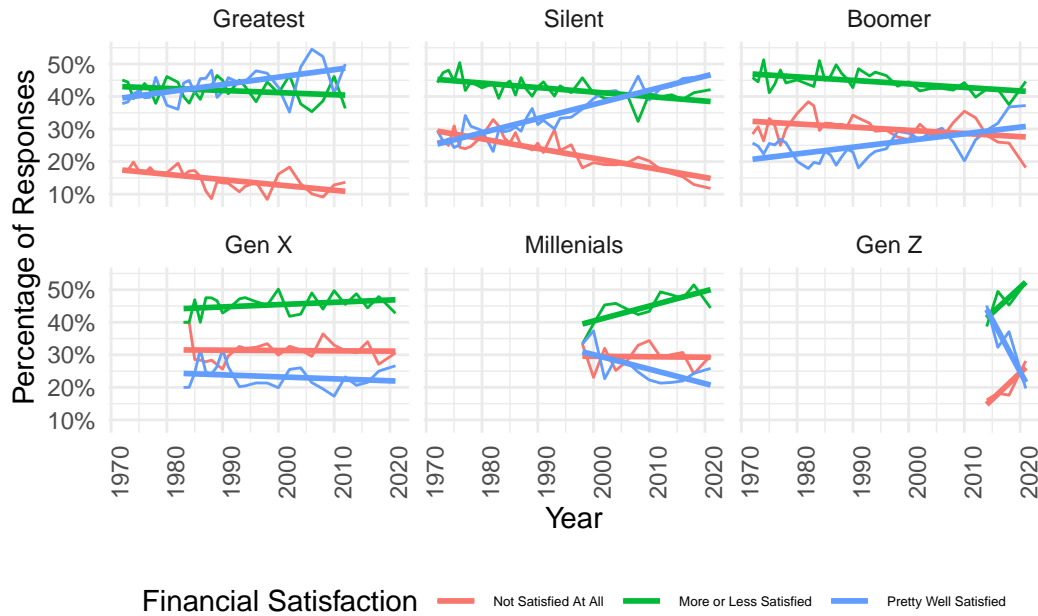


Figure 9: Financial satisfaction results over the years for each generation

5.4.3 Age

In addition to looking at cohort over time, we also want to know how respondents at the same age groups are perceiving their financial situation over time. Looking at Figure 10, we see a discouraging picture where “not satisfied at all” with their financial situations is trending upwards for almost all age groups, while being “pretty well satisfied” is trending downwards. Out of the bands, 50-64 age group had the highest percentage increase for “not satisfied at all”, and most amount of percentage decrease for “pretty well satisfied”.

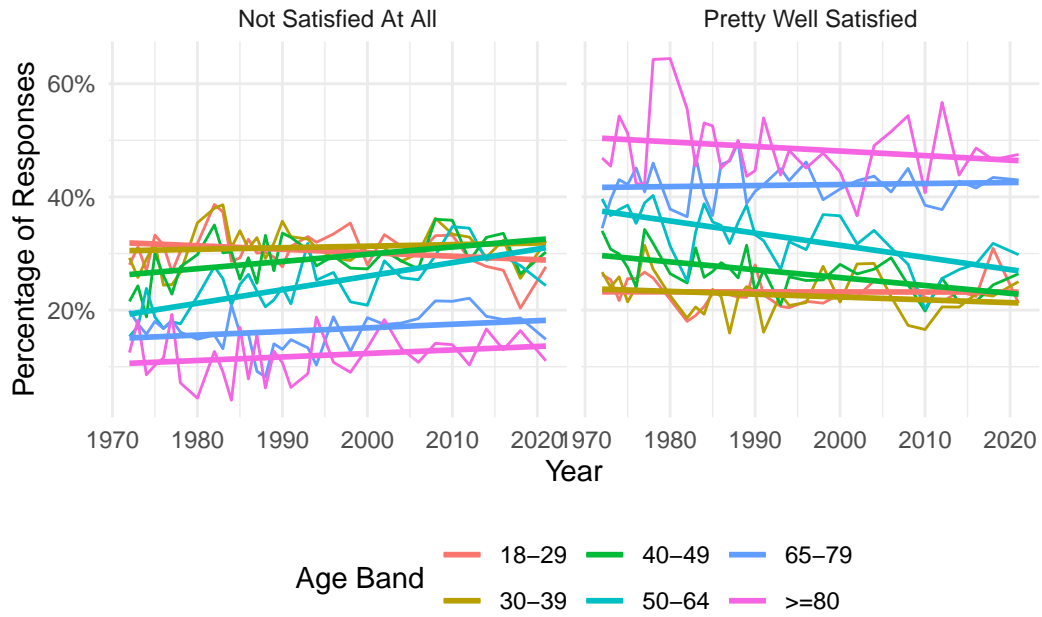
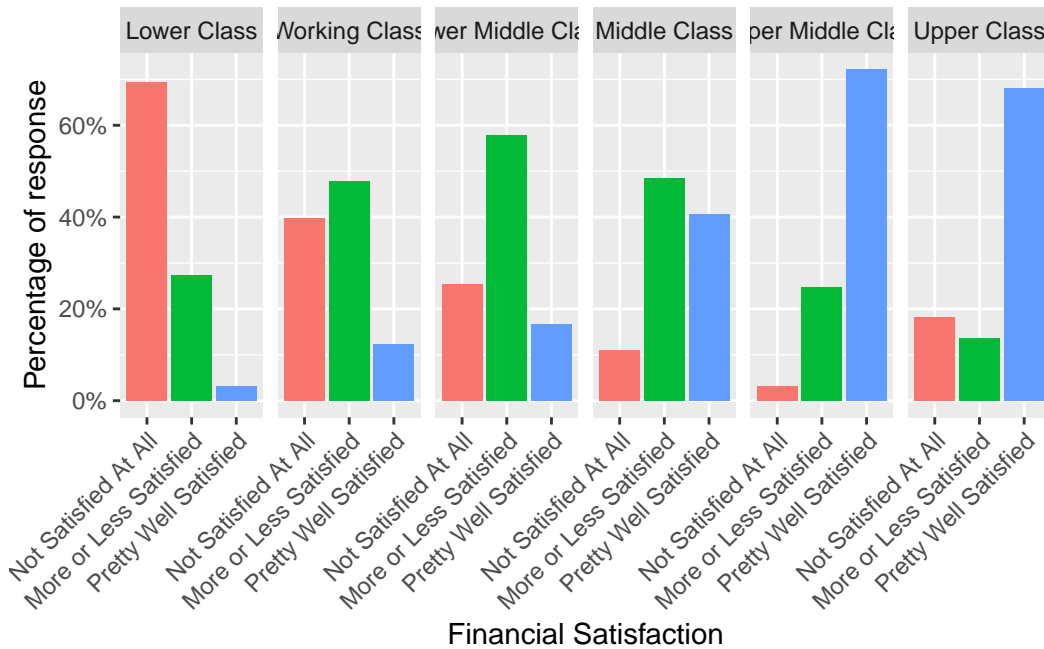
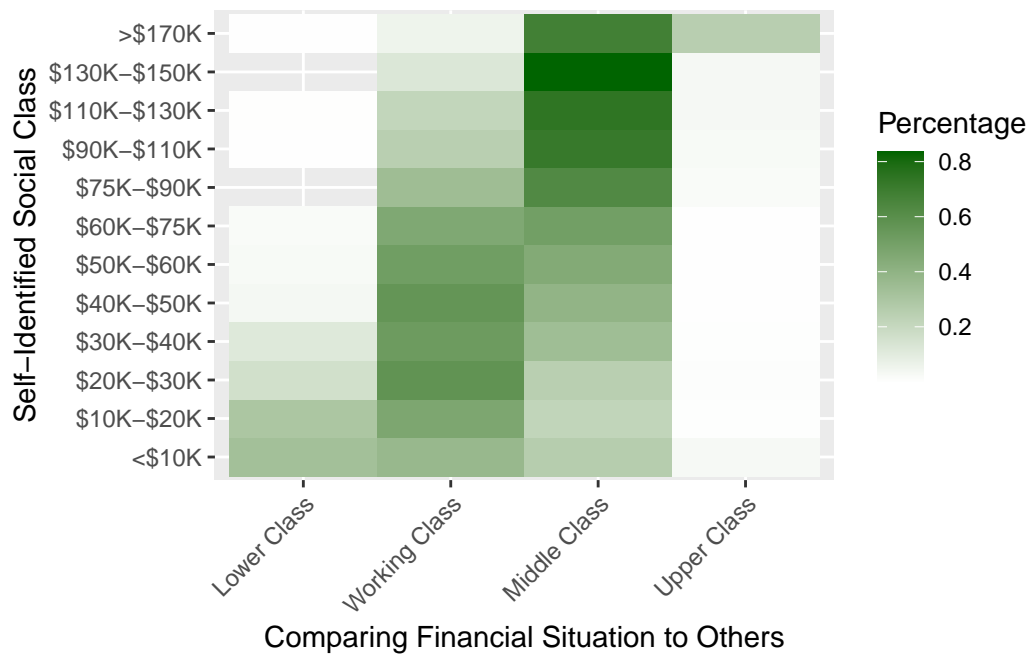
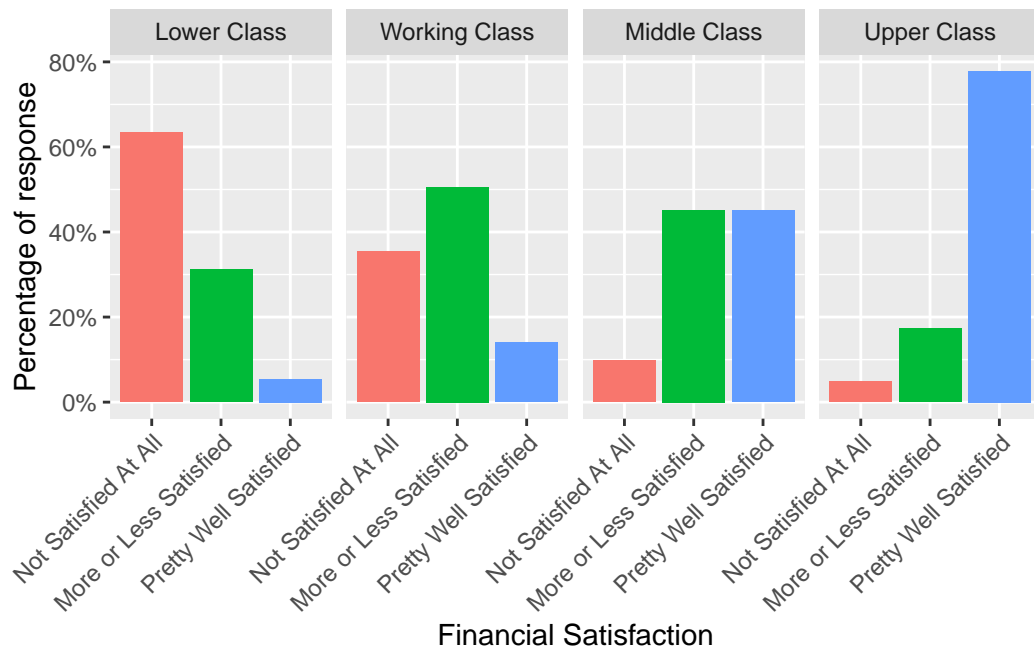


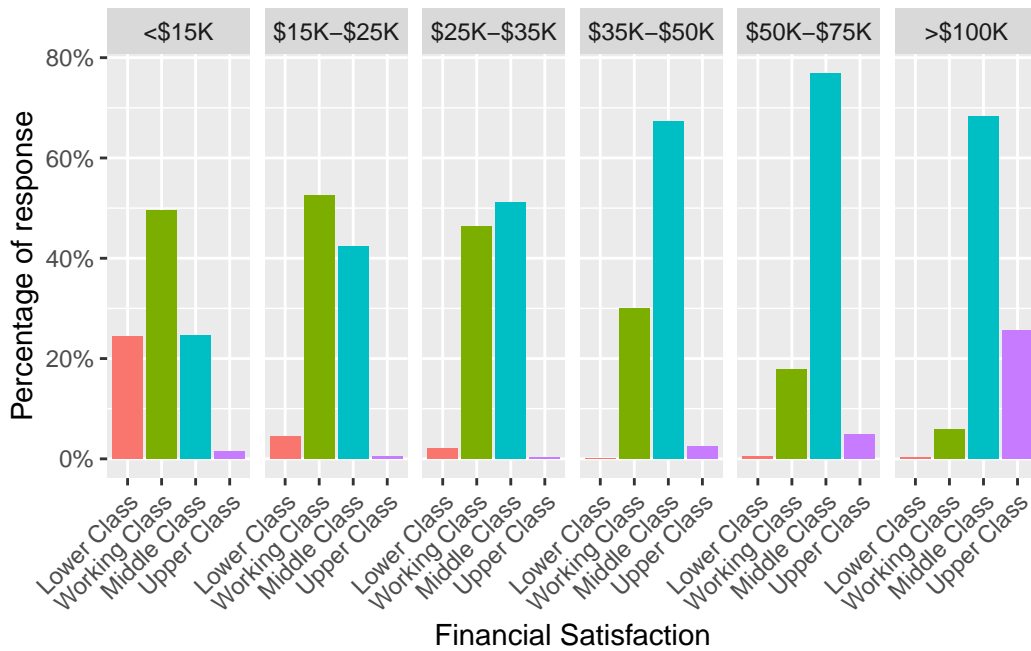
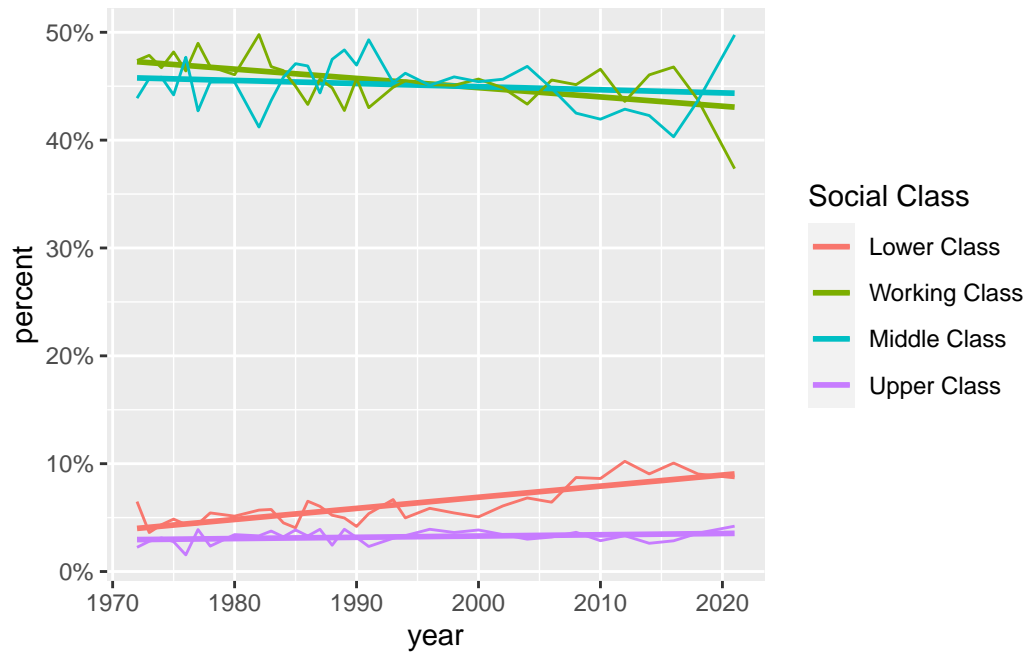
Figure 10: Financial satisfaction results over the years for each age band

5.5 Social Class (still need to fix up)



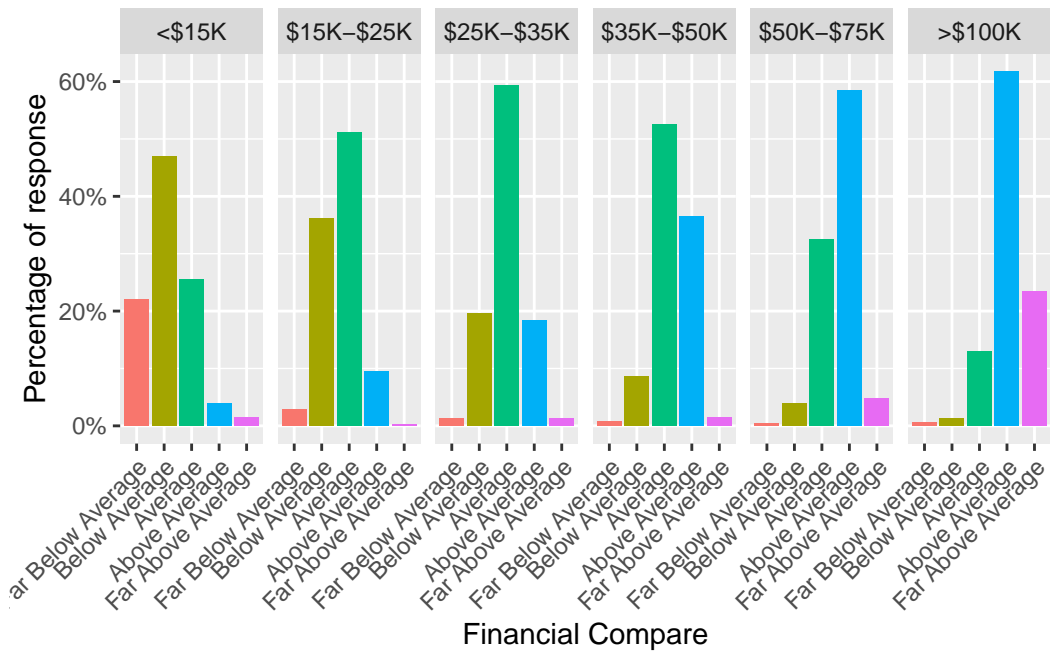


Social class over the years



The variable *realinc* has only ~30 values - probably something to do with bands that are in the raw survey data

5.6 Financial Compare (old)





6 Discussion

Our results point to two trends: first, evidence to support the hypothesis that the rich are getting richer, and that the poor are getting poorer. And second, evidence to support the Fleishman effect -- the idea that upper classes have a distorted sense of their financial well-being, since they compare themselves to the upper class and opt into wealthy lifestyles, rather than comparing themselves to the general population.

6.0.1 (Economic) The Rich are getting Richer, and the Poor are getting Poorer

Rich and richer; poor getting poorer

6.0.2 (Psychological) Fleishman Effect

During World War II, sociologist Samuel Stouffer led the American Soldier study, which aimed to examine the attitudes and motivations of American soldiers during war time. The study collected data using both surveys and interviews from over 500,00 soldiers, and covered topics such as combat experiences, political beliefs, and racial attitudes.

One important insight from this study is the contribution it made to our understanding of reference groups. The American Soldier study found that soldiers tend to identify more strongly

with fellow soldiers than civilians. This identification was found to be a significant factor in shaping soldiers' attitudes in relation to morale and motivation.

In 1957, the sociologist Robert Merton expanded on this idea of reference groups to further develop the concept of relative deprivation, which refers to feelings of discontent that arise when individuals perceive a discrepancy between their own status, and the status of others in their social comparison group. Merton argues that social mobility leads to an increase in relative deprivation, since individuals who achieve higher incomes and status become more aware of the gap between their status, and those who are more affluent in their reference group.

Our data on financial satisfaction based on income supports this hypothesis [figure about financial satisfaction]. When faceted by class instead, the question becomes more interesting. When asked to compare themselves to the general population, a significant portion of self-identified upper-classes see themselves as “below average”.

Is the upper class simply delusional? Could survey respondents have misinterpreted what “upper class” means? Or, are there more factors at play when people consider their own financial situations -- for instance, the child of millionaires who themselves make \$40k a year might see themselves as culturally and socially upper class, yet below average in terms of financial comparison.

In her 2019 memoir *We Need To Talk About Money*, Otegha Uwagba writes about coming of age as a Black, Oxford-educated millennial woman from a low-income family, and how her perception of her own financial well-being was distorted by the way her upper class colleagues were able to afford luxuries like property ownership while signalling, by complaining about mortgages and budgeting, that they were in the same cohort of struggling millennials. After learning that a friend had concealed that she, in fact, didn't have a mortgage, and that her parents had given her enough money to buy her apartment outright, Uwagba writes about the cultural shame that political liberal individuals can experience as anti-capitalist sentiment have entered the mainstream conversations:

“Shame as it relates to wealth is somewhat more unexpected because – despite occasional pockets of resistance and the growing anti-capitalist sentiment that has entered mainstream cultural conversations – on the whole, we tend to venerate the rich, assigning enormous social currency to traditional markers of wealth: nice cars, massive houses, designer clothes. But that's the thing about shame – it's an emotion that arises from our most base human instincts: the fear of being judged negatively by others; our desire to ‘fit in’; the discomfort of feeling exposed; and those emotional responses transcend income levels. For wealthy people who also happen to be politically liberal – and so value the notion of social equity – being rich, and the advantages that wealth presents can be a source of moral discomfort, particularly when said wealth is inherited.”

Concealing wealth out of shame, to Uwagba, is “actively unhelpful” for others in the same reference group, and exacerbates the frustration of realizing that achieving personal finance goals is even more out of reach than she initially thought. In [fig-overtime], we see that,

beginning with Gen X, Gen Xers, Millennials, and Gen Z are experiencing more financial dissatisfaction over time compared to other generations (although, Gen Z’s self-reporting does correlate with a pandemic). This complicates this idea of reference group comparisons -- while intra-group comparisons are full of cognitive biases and emotions that distort people’s understandings of their own and their colleagues financial well-being, younger generations can no longer use their own age and educational achievements as a reference group. Millennials aren’t experiencing the same financial satisfaction that Baby Boomers did when they were the same age.

Meanwhile, the lure of upward mobility is addictive, as even the upper class reports financial dissatisfaction. An article by The Cut titled “The Fleishman Effect” explores how upper-class, New York women are responding to the HBO show *Fleishman Is In Trouble*, which is about the stress that high-earning women feel when trying to achieve satisfaction in a city that houses one of the wealthiest reference groups in the world, where “the go-to bat mitzvah gift of the moment is a Cartier bracelet, for which moms are expected to pitch in for a group present”.

6.1 Limitations and Future Direction

The study would be strengthened with data that could provide a fuller profile of respondent’s reference groups, and other factors that influence their motivations and attitudes towards personal finance and upward mobility.

For instance, geography can have a major influence on personal finance and reference groups.

Another key factor in how people interpret their own wealth is the way that they narrativize their success in comparison to their upbringing. In our supplemental survey in Appendix X, we suggest the questions “Have you moved up a full socio-economic class compared to your upbringing?” (Y/N/Don’t Know), “Do you have at least one parent who moved up a full socio-economic class?” (Y/N/Don’t Know), and “Is your current career in the same field as your parents?” (Y/N/Don’t Know) to better understand respondent’s family histories. Asking “Are your friends in the same socio-economic class, higher, or lower? (Higher/About the same/Lower)” would also provide more granular detail into how someone perceives their financial status in comparison to the people closest to them. The Social Capital Atlas (<https://www.socialcapital.org/?dimension=EconomicConnectednessIndividual&geoLevel=county&selectedId=06037&dim1=EconomicConnectednessIndividual&dim2=CohesivenessSupportRatio&dim3=CivicEngagementVolunteeringRates&bigModalSection=&bigModalChart=scatterplot&showOutliers=false&colorBy=>) conducted a survey pursuing a similar estimand using Facebook data to explore “economic connectedness” in friend groups, which refers to the percentage of friends a respondent has who earn higher or lower incomes than them.

(fig-2021-degree-financial) shows that respondents with post-secondary education experience l

We propose adding the questions “If you went to college or university, what was your major?” “Do you regret your major? (Y/N/Don’t know)” to the survey. Adding this question to our study would provide more detailed insight on reference groups, since we could see how people who enrolled in each major compare themselves to others, and, with more information on family history, we could also gather insight on which fields individuals from different social classes pursue in higher education. We could also see how people across different income ranges and classes experience regret about their decisions.

Additional financial variables in survey for analysis

Connect with US census data to check representativeness

Connect with other macroeconomic indicators - e.g. inflation, stock markets

Collect more data to supplement our findings -> link to survey https://docs.google.com/forms/d/e/1FAIpQLSdq87Bet1PyaCezPxN_t7A1smQCpSap6EYjG2LrTN0K_CX9A/viewform

7 Conclusion

In conclusion, financial satisfaction and well-being are subjective and influenced by various factors. This paper used data from the US General Social Survey to examine how people perceive their financial situations in comparison to others, particularly in light of the increasing wealth gap between high and low earning individuals.

The results support the hypothesis that the rich are getting richer, the poor are getting poorer, and that younger generations are financially worse off than preceding cohorts. The data also suggests that people’s reference groups influence their understanding of their financial well-being and satisfaction. Overall, this paper highlights the complexity of financial satisfaction and well-being, and the importance of considering sociological dynamics and cognitive biases in understanding these subjective evaluations.

Reference

- Müller, Kirill. 2020. *Here: A Simpler Way to Find Your Files*. <https://CRAN.R-project.org/package=here>.
- Müller, Kirill, and Hadley Wickham. 2022. *Tibble: Simple Data Frames*. <https://CRAN.R-project.org/package=tibble>.
- NORC. 2021a. *22 GSS Cros-Section Codebook*. <https://gss.norc.umd.edu/Documents/codebook/GSS%202021%20Codebook.pdf>.
- . 2021b. *The General Social Survey*. <https://gss.norc.umd.edu/>.

- R Core Team. 2022. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. <https://www.R-project.org/>.
- Ren, Kun, and Kenton Russell. 2021. *Formattable: Create 'Formattable' Data Structures*. <https://CRAN.R-project.org/package=formattable>.
- Robinson, Michael T. n.d. *The Generations: Which Generation Are You?* <https://www.careerplanner.com/Career-Articles/Generations.cfm>.
- Wickham, Hadley. 2016. *Ggplot2: Elegant Graphics for Data Analysis*. Springer-Verlag New York. <https://ggplot2.tidyverse.org>.
- Wickham, Hadley, Mara Averick, Jennifer Bryan, Winston Chang, Lucy D'Agostino McGowan, Romain François, Garrett Golemund, et al. 2019. "Welcome to the tidyverse." *Journal of Open Source Software* 4 (43): 1686. <https://doi.org/10.21105/joss.01686>.
- Wickham, Hadley, Romain François, Lionel Henry, and Kirill Müller. 2022. *Dplyr: A Grammar of Data Manipulation*. <https://CRAN.R-project.org/package=dplyr>.
- Wickham, Hadley, Jim Hester, and Jennifer Bryan. 2022. *Readr: Read Rectangular Text Data*. <https://CRAN.R-project.org/package=readr>.
- Wickham, Hadley, Evan Miller, and Danny Smith. 2022. *Haven: Import and Export 'SPSS', 'Stata' and 'SAS' Files*. <https://CRAN.R-project.org/package=haven>.
- Xie, Yihui. 2014. "Knitr: A Comprehensive Tool for Reproducible Research in R." In *Implementing Reproducible Computational Research*, edited by Victoria Stodden, Friedrich Leisch, and Roger D. Peng. Chapman; Hall/CRC. <http://www.crcpress.com/product/isbn/9781466561595>.
- Zhu, Hao. 2021. *kableExtra: Construct Complex Table with 'Kable' and Pipe Syntax*. <https://CRAN.R-project.org/package=kableExtra>.