

Abstract

Financial literacy for younger American adults declined sharply in recent years. Using the 2018 National Financial Capability Study (NFCS) survey data, we examine the differences in financial literacy across various age, gender, and racial groups. We find that younger age groups have a much lower level of financial literacy when compared to older age groups, with apparent gender and racial gaps present in all age groups. Our results also suggest that financial literacy affects borrowing behavior. Specifically, higher levels of financial literacy are associated with a lower percentage of high interest rate borrowing, a lower percentage of paying the minimum monthly credit card payment, and a lower percentage of overdrawing checking accounts.

Motivations

Financial Capability Gaps are Widening

• Despite economic growth and declining unemployment, there are widening divides in those who are struggling and those who are prospering

Financial Literacy Continues to Decline

• Financial literacy rate has declined from 42% to 34% since 2009, despite that 71% of Americans believe they have a high level of financial knowledge

Personal Finances are a Cause of Anxiety and Stress

• Over half of Americans feel that their finances are a source of anxiety and stress

A Sharp Decrease in Financial Literacy Among Younger Adults

• Only 24% of millennials demonstrate basic financial knowledge and only 8% demonstrate high financial literacy

Financial Fragility During the Pandemic

• Younger respondents, those with larger families, minorities, and those with lower income were more financially fragile during the economic shock

Research Questions

Question 1 What are the factors that

affect financial literacy?

Does financial literacy affect minimum monthly credit card payment behavior? **Question 3**

Question 2 Does financial literacy affect high interest rate borrowing behavior?

Does Financial literacy affect checking account overdraft behavior? **Question 4**

If so, what are the gaps among different ages, genders, and racial groups?

Data & Summary Statistics

National Financial Capability Study (NFCS) Commissioned:

FINRA Investor Education Foundation

Purpose:

Benchmark key indicators of financial capability and evaluate how these indicators vary with underlying demographic, behavioral, attitudinal and financial literacy characteristics

Frequency:

Every three years starting in 2009

2018 NFCS Data:

Most recent, online surveys of 27,091 American adults (approx. 500 individuals per state), weighted to be representative of age, gender, ethnicity, education, and Census Division.

Simple Interest

Suppose you had \$100 in a savings account and the interest rate was 2% per year. After 5 years, how much do you think you would have in the account if you left the money to grow?

Compound Interest

Suppose you owe \$1,000 on a loan and the interest rate you are charged is 20% per year compounded annually. If you didn't pay anything off, at this interest rate, how many years would it take for the amount you owe to double?

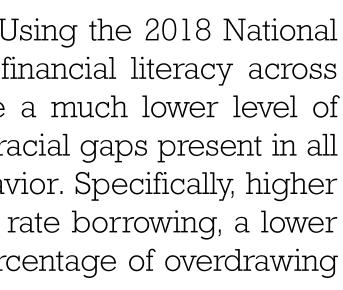
Mortgage

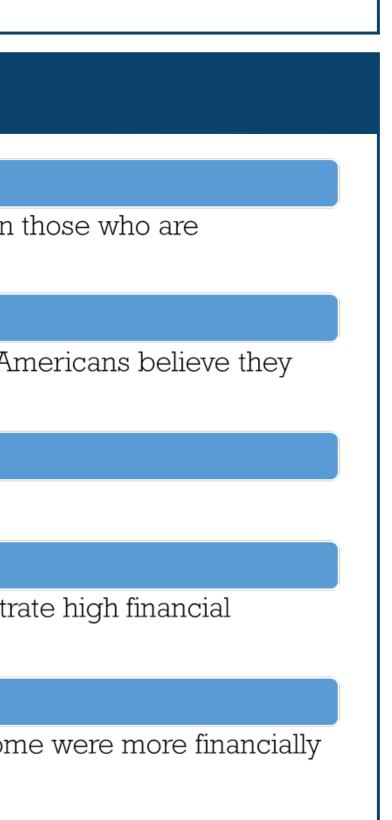
A 15-year mortgage typically requires higher monthly payments than a 30-year mortgage, but the total interest paid over the life of the loan will be less. True or False?

Financial Literacy and Borrowing Behavior Across Different Age Groups

Andrew Brands, Finance, Real Estate, Law (FRL) Mentor: Dr. WeiYu, FRL Chair Kellogg Honors College Capstone Project

Results







Inflation

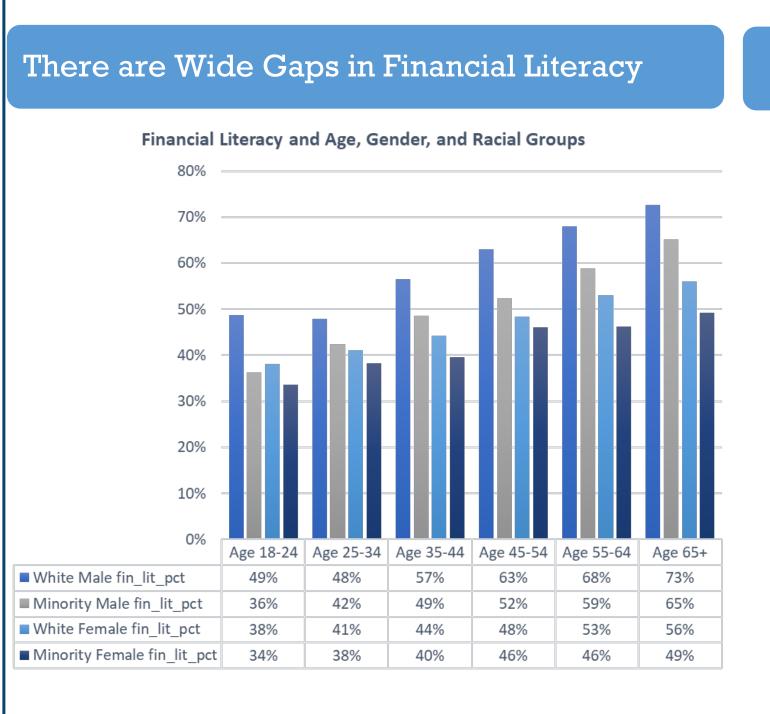
Imagine that the interest rate on your savings account was 1% per year and inflation was 2% per year. After 1 year, how much would you be able to buy with the money in this account?

Bonds and Interest Rates

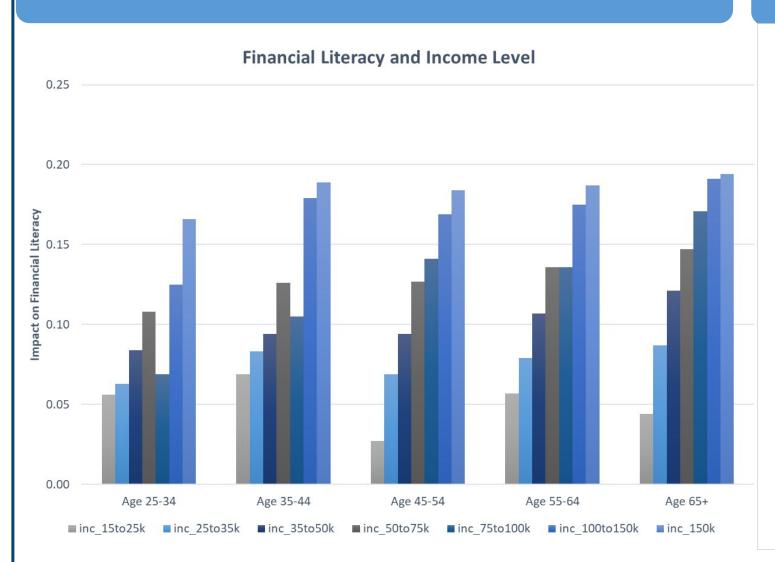
If interest rates rise, what will typically happen to bond prices?

Risk **Diversification**

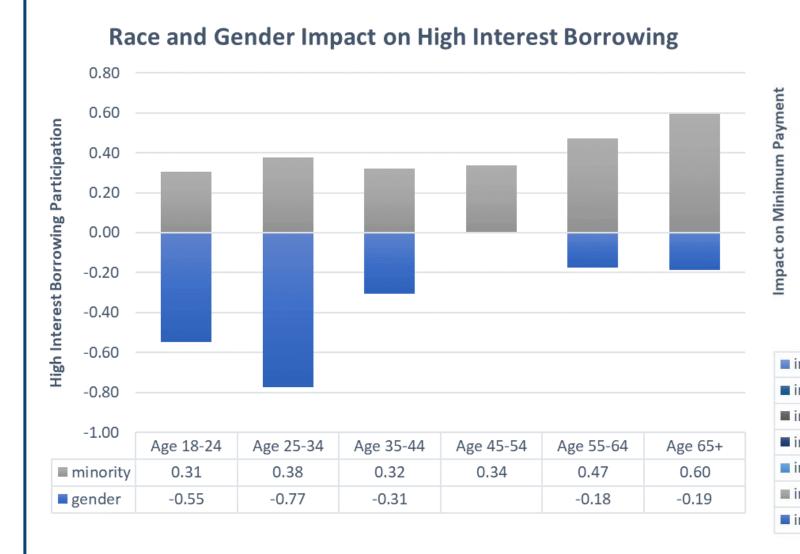
Buying a single company's stock usually provides a safer return than a stock mutual fund. True or False?



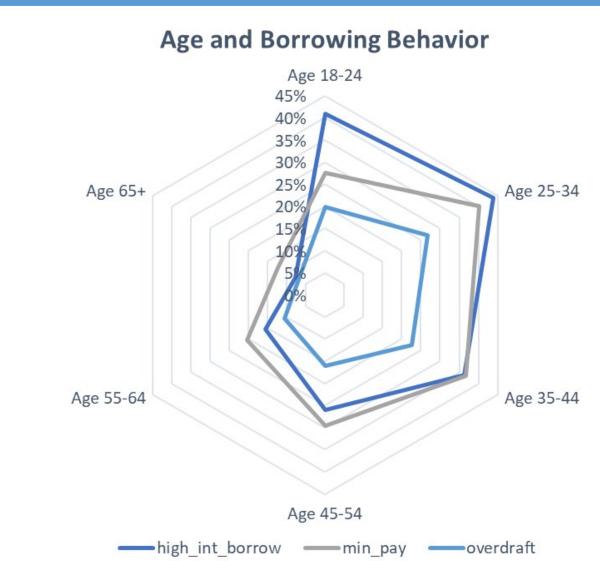
Higher Income, Higher Financial Literacy



Race and Gender Impact High Interest Rate Borrowing

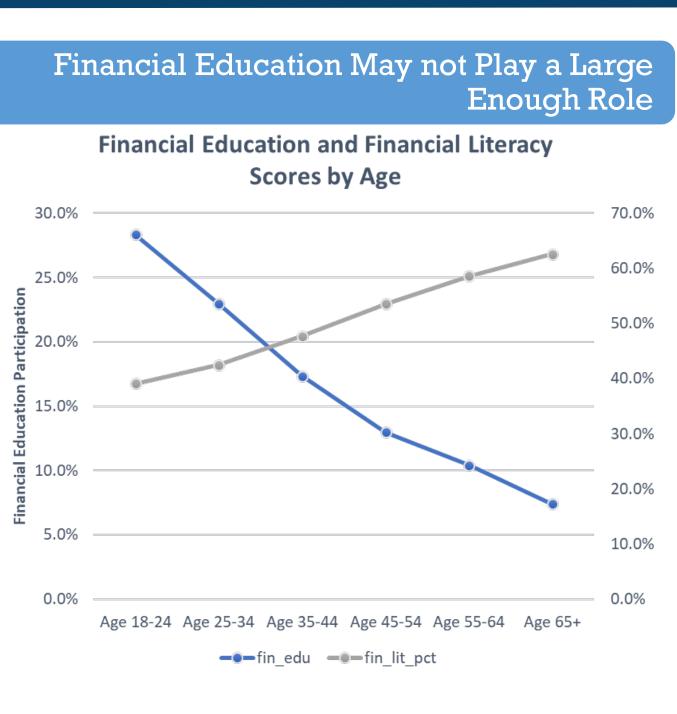


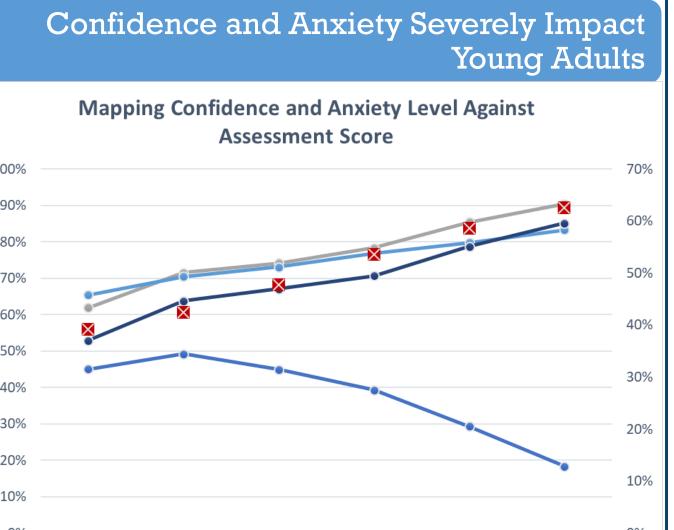
Younger Adults Engage the Most in all Three Types of Borrowing Behavior



Note: all coefficients are mapped at the 10% significance level

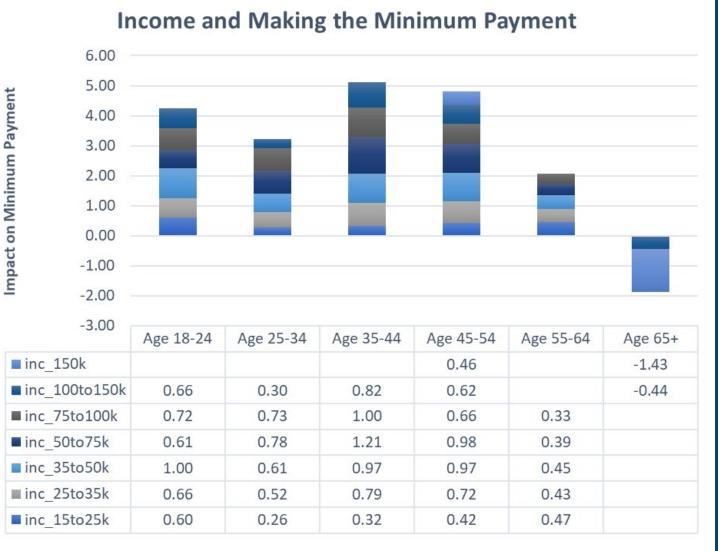




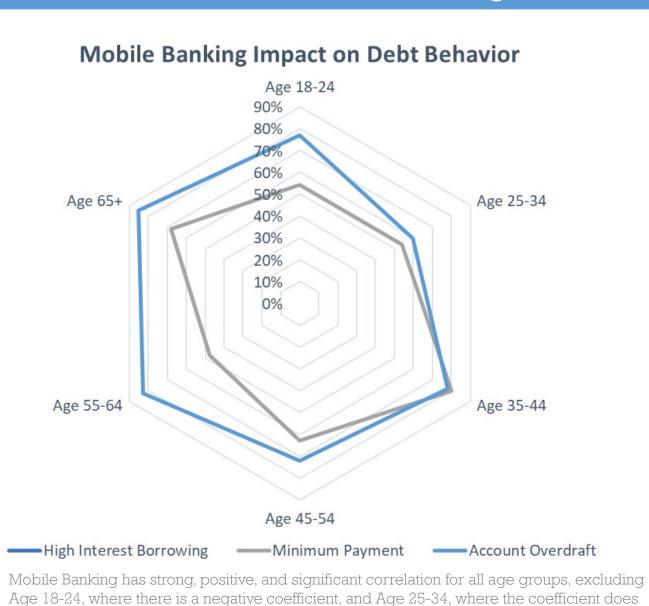


Age 18-24 Age 25-34 Age 35-44 Age 45-54 Age 55-64

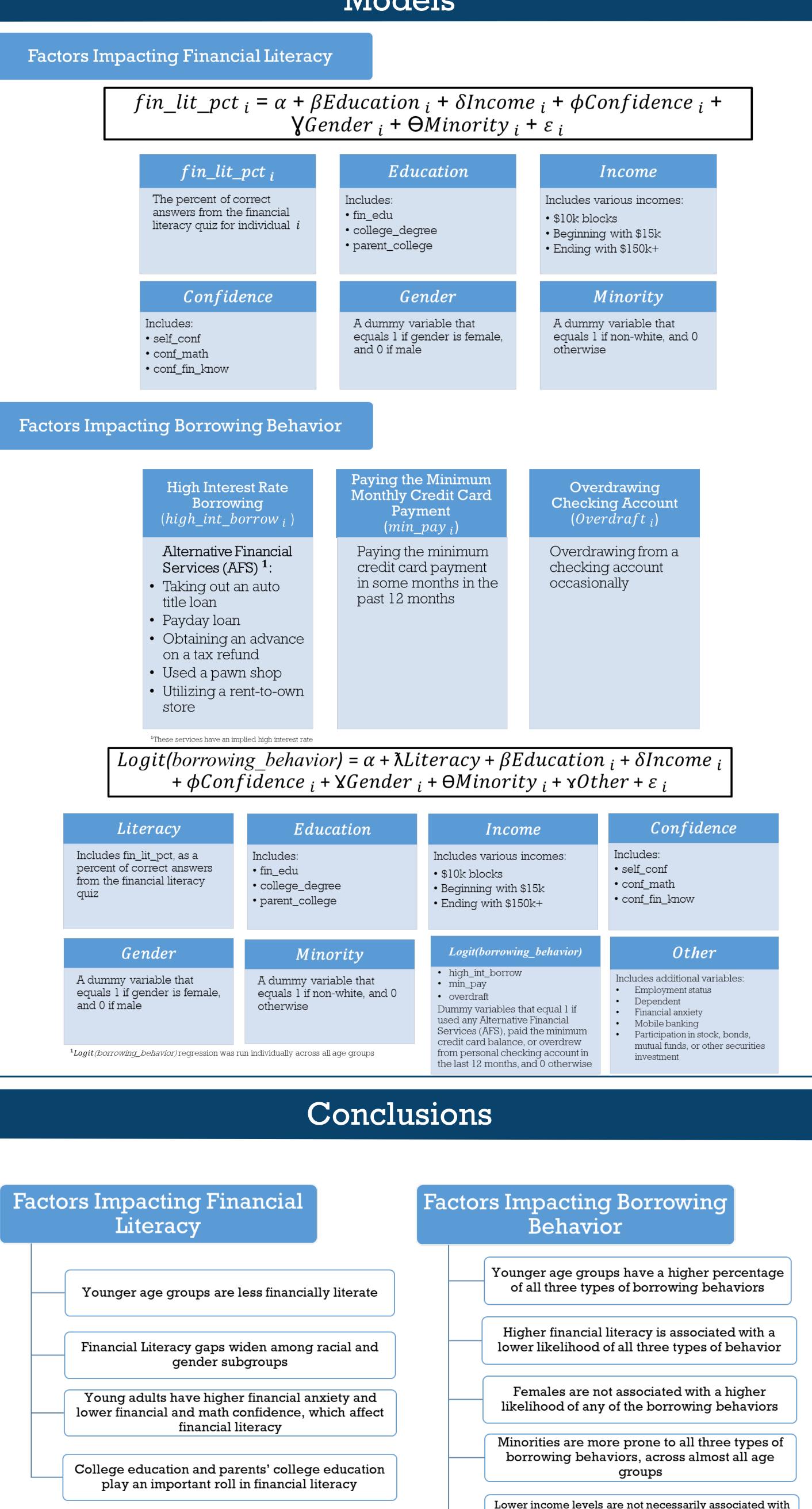
Lower Income-Earners Aren't the only ones Who Just Pay the Minimum

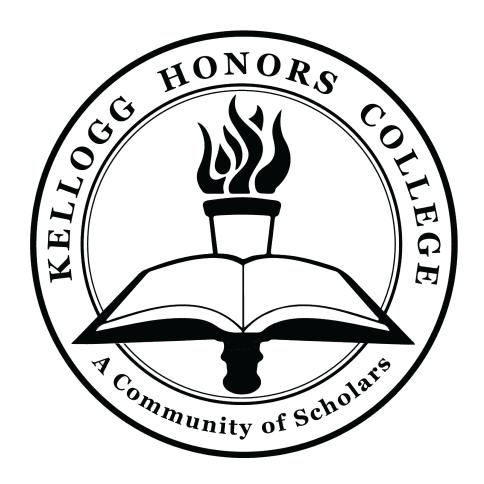


More Frequent use of Mobile-Banking is Linked to Poor Borrowing Behavior



not show any statistical significance beyond the 10% threshold





Models

ncial	Factors Impacting Borrowing Behavior
s financially literate	Younger age groups have a higher percentage of all three types of borrowing behaviors
n among racial and oups	Higher financial literacy is associated with a lower likelihood of all three types of behavior
nancial anxiety and idence, which affect	Females are not associated with a higher likelihood of any of the borrowing behaviors
ts' college education	Minorities are more prone to all three types of borrowing behaviors, across almost all age groups
	Lower income levels are not necessarily associated with the higher likelihood of paying the minimum on their credit cards or overdrawing from a checking account
	Mobile banking is linked to a higher probability of engaging in all three types of borrowing behavio