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# Evaluating the Effectiveness of Financial Risk Education Programs for Individual Investors in Nigeria

**Alli Noah G**
Department of Insurance
School of Business and Management Studies Federal Polytechnic Offa
Phone Number: 2347030903509
noah.alli@fedpoffaonline.edu.ng

**Abstract**

*This study investigates the effectiveness of financial risk education programs in improving investor knowledge and influencing investment behavior among individual investors in Nigeria. It underscores the importance of financial literacy in navigating the complexities of the investment landscape and highlights the potential benefits of targeted educational interventions. Through a quantitative survey-based approach, the study assesses the impact of three types of financial risk education programs: investment workshops, online resources, and financial literacy programs. The objectives include evaluating the influence of these programs on investor knowledge, investor behavior, and investment experience. The research employs regression analysis to test hypotheses regarding the relationships between financial risk education and the dependent variables. The findings suggest that investment workshops have a significant positive impact on investor knowledge, as well as online resources and financial literacy programs appear less conclusive. Additionally, the study provides insights into the factors influencing investor behavior and investment experience. By examining the effectiveness of financial risk education programs in Nigeria, this research contributes to the broader discourse on financial literacy and its implications for individual financial decision-making and economic development.*
**Keywords:** Financial risk education, investor knowledge, investor behavior, financial literacy, Nigeria, individual investors.

## Introduction

Nigeria, like many developing countries, faces a significant challenge in equipping its citizens with the financial literacy necessary to navigate the complexities of the investment landscape. While Nigeria boasts a youthful population and a rapidly growing economy, a significant knowledge gap persists when it comes to personal finance. Individual investors often lack the fundamental knowledge and skills required to make informed investment decisions. This can lead to a number of negative consequences, including portfolio underperformance, increased exposure to risk, and susceptibility to fraudulent schemes (Ogbu & Ike, 2018). The roots of this problem can be traced back to a combination of factors. The Nigerian education system traditionally places limited emphasis on financial literacy, leaving many individuals without a strong foundation in core financial concepts. Additionally, the financial sector itself can be complex and intimidating for newcomers, with a vast array of investment products and ever-evolving financial jargon (World Bank, 2020). This can create a sense of information overload and

Volume: 3 Issue: 5 | May–2024 ISSN: 2720-6874
http://journals.academiczone.net/index.php/ijfe

discourage potential investors from entering the market. This lack of financial risk education can lead to poor investment choices, increased vulnerability to scams, and ultimately, hinder economic growth and individual financial security.

Several factors contribute to the need for robust financial risk education in Nigeria. Firstly, the financial sector is undergoing rapid development, with new investment products and platforms emerging constantly (World Bank, 2020). This dynamic environment can be overwhelming for individuals unfamiliar with financial terminology and risk assessment. Secondly, Nigerians are increasingly seeking alternative investment options beyond traditional savings accounts due to inflationary pressures and a desire for higher returns (Akintoye & Fabiyi, 2017). This necessitates a strong understanding of risk-reward profiles for different investment vehicles. A significant portion of the Nigerian population exhibits low levels of financial literacy (Onuora, 2019). Studies by researchers like Agu & Osuala (2017) have found that many Nigerians lack basic knowledge about financial concepts like compound interest, diversification, and risk management. This knowledge gap makes them susceptible to financial exploitation and hinders their ability to make sound investment decisions. The potential benefits of effective financial risk education programs are well documented. Studies conducted in developed economies have shown that financial literacy programs can improve investment behavior, increase risk awareness, and lead to better financial outcomes for individuals (Huston, Lerner, & Lusardi, 2015).

While several financial risk education programs exist in Nigeria, there is a lack of rigorous research evaluating their effectiveness in improving financial knowledge and ultimately, investment behavior. Studies are needed to assess the content, delivery methods, and long-term impact of these programs on target audiences. To achieve this, the following objectives were formulated to guide the study:

i. Assess financial risk education programs (Investment Workshops, Online Resources, and Financial Literacy Programs) impact on investor knowledge among individual investors in Nigeria.

ii. Evaluate financial risk education influence on investor behaviour among individual investors in Nigeria.

iii. Explore program design impact on investment experience among individual investors in Nigeria.

**Research Hypothesis**

**Hypothesis One:** Financial risk education programs (Investment Workshops, Online Resources, and Financial Literacy Programs) have no impact on investor knowledge among individual investors in Nigeria.

**Hypothesis Two:** Financial risk education has no influence on investor behaviour among individual investors in Nigeria.

**Hypothesis Three:** Program design has no impact on investment experience among individual investors in Nigeria.

## Literature Review

### Financial Literacy for Individual Investors

Financial literacy, the ability to understand and effectively manage one's finances, has become increasingly crucial for individuals navigating the complexities of modern financial markets. A

Volume: 3 Issue: 5 | May–2024 ISSN: 2720-6874
http://journals.academiczone.net/index.php/ijfe

substantial body of research suggests a positive correlation between financial literacy and sound investment decisions. Studies by Huston, Lerner, and Lusardi (2015) demonstrate that financially literate individuals exhibit greater risk awareness, engage in more effective portfolio diversification, and ultimately achieve better financial outcomes. Similarly, Demirguc-Kunt et al. (2018) found that financial literacy positively influences participation in stock markets and other investment avenues. This implies that financial literacy empowers individuals to make informed investment choices, potentially leading to increased wealth accumulation and financial security.

Despite the recognized benefits, promoting financial literacy presents several challenges. One key obstacle lies in the multifaceted nature of financial literacy itself. As Ackert and Shafer (2016) point out, financial literacy encompasses a broad range of knowledge, skills, and attitudes. Developing effective educational programs necessitates a comprehensive approach that addresses all these elements. Additionally, the financial landscape constantly evolves, requiring financial literacy programs to stay current with new investment products and ever-changing regulations (Lusardi & Mitchell, 2017a). Furthermore, demographic variations in financial knowledge and risk tolerance necessitate targeted educational interventions. Studies by Lyons et al. (2017) highlight the differences in financial literacy levels across age groups, income levels, and educational backgrounds. A "one-size-fits-all" approach to financial literacy education is unlikely to be effective.

Several studies have explored the effectiveness of various financial literacy education programs. The research by Fernandes et al. (2014) suggests that school-based financial literacy programs can be instrumental in equipping young adults with the knowledge and skills necessary for sound financial decision-making. Similarly, Lusardi & Mitchell (2017b) found that workplace financial education programs can improve employee financial literacy and lead to better retirement planning practices. However, the long-term impact of financial literacy programs remains a subject of debate. Some studies, like those by Cole and Shafer (2009), question whether the knowledge gained through financial literacy programs translates into lasting behavioral changes. Further research is needed to assess the effectiveness of different program designs and delivery methods in promoting long-term behavioral shifts towards responsible financial management.

**Financial Risk Education**

Financial risk education plays a crucial role in empowering individuals to navigate the complexities of modern financial markets. Financial risk education equips individuals with the knowledge, skills, and confidence to make informed financial decisions (Lusardi & Mitchell, 2017a). It encompasses an understanding of financial products, risk-return relationships, investment strategies, and personal finance management practices (Huston, Lerner, & Lusardi, 2015). Financial risk education aims to increase financial literacy, which is the ability to apply financial knowledge and skills to make effective financial decisions (Organisation for Economic Co-operation and Development [OECD], 2015).

Investment workshops offer a structured learning environment for individuals to gain knowledge about specific investment topics. Studies by Fernandes et al. (2014) suggest that interactive workshops can be effective in enhancing investment knowledge and risk awareness compared to passive learning methods. The advantage of workshops lies in their ability to provide a platform for real-time interaction with financial professionals and address individual questions and concerns (Fernandes *et al.*, 2014). However, the effectiveness of workshops can be limited by factors such as accessibility, cost, and the ability to cater to diverse learning styles.

Volume: 3 Issue: 5 | May–2024 ISSN: 2720-6874
http://journals.academiczone.net/index.php/ijfe

The internet has become a vast repository of financial information. Online resources encompass educational websites, financial blogs, and online courses. These resources offer flexibility and cater to individual learning paces. Research by Hastings et al. (2018) suggests that online financial education programs can be effective in improving financial knowledge, particularly for younger generations comfortable with digital learning platforms. However, the quality and accuracy of online resources can vary significantly. Individuals require discernment to navigate through the vast amount of information available and identify reliable sources (Hastings *et al.*, 2018).

Financial literacy programs encompass a comprehensive approach to educating individuals about personal finance management. These programs can be delivered in schools, workplaces, or through community organizations. School-based programs, as explored by Fernandes et al. (2014), equip young adults with the foundational knowledge and skills necessary for sound financial decision-making throughout their lives. Workplace programs, as evidenced by Lusardi & Mitchell (2017b), can improve employee financial literacy and promote responsible saving and retirement planning practices. The effectiveness of financial literacy programs hinges on their design and delivery methods. Programs should be tailored to the target audience's needs and financial literacy levels to maximize their impact (Lyons *et al.*, 2017).

**Financial Risk Education in Nigeria**

Financial literacy levels in Nigeria remain low compared to developed economies (Onuora, 2019). Several factors contribute to this, including limited emphasis on financial education in the national curriculum and a complex financial sector with evolving products and terminology (World Bank, 2020). However, there are positive developments. The Nigerian government, recognizing the importance of financial inclusion, has implemented initiatives like the National Financial Literacy Framework (NFLF) (Central Bank of Nigeria, n.d.). The NFLF aims to promote financial literacy through targeted programs for various demographics. The private sector also plays a role. Banks and financial institutions offer financial literacy workshops and online resources (Nigerian Seminars and Trainings, n.d.). However, the reach and effectiveness of these programs have yet to be fully evaluated (Ogbu & Ike, 2018).

**Financial Risks Faced by Nigerian Investors:**

Despite these initiatives, Nigerian investors face several specific financial risks that targeted financial risk education programs can address:

**Information overload and fraud:** The rapid growth of the financial sector and the influx of new investment products can overwhelm individuals (Akintoye & Fabiyi, 2017). Financial risk education can equip investors with the skills to assess information critically and identify fraudulent investment schemes.

**Lack of diversification:** Studies by Akintoye & Fabiyi (2017) suggest that Nigerian investors often lack diversification in their portfolios, increasing their overall risk exposure. Education programs can emphasize the importance of diversification and different asset classes.

**Misunderstanding of risk-return relationships:** Many investors may prioritize high returns without fully understanding the associated risks (Ogbu & Ike, 2018). Financial literacy programs can help investors understand risk-return trade-offs and make informed investment decisions based on their risk tolerance.

**Behavioral biases:** Investors can be susceptible to behavioral biases such as overconfidence and anchoring, leading to poor investment choices (Akintoye & Fabiyi, 2017). Financial risk education can increase investor awareness of these biases and how to mitigate them.

Volume: 3 Issue: 5 | May–2024 ISSN: 2720-6874
http://journals.academiczone.net/index.php/ijfe

**Theoretical Review**

This study adopts the theories of Behavioral Finance Theory and Social Learning Theory

***Behavioral Finance Theory***

Behavioral finance theory challenges the traditional assumption of rational actors in financial markets and proposes that investor behavior is influenced by a complex interplay of psychological factors, biases, and cognitive limitations. These factors can lead investors to make irrational decisions that deviate from what a rational investor would do in the same situation. Some of the key psychological factors that behavioral finance theory focuses on include:

**Overconfidence:** Investors tend to overestimate their knowledge, skills, and ability to pick winning investments. This can lead to excessive risk-taking and poor investment decisions.

**Anchoring:** Investors rely too heavily on the first piece of information they encounter when making a decision. This can lead to biased investment choices, such as clinging to losing stocks or being overly influenced by initial asking prices.

**Loss Aversion:** Investors feel the pain of losses more acutely than the pleasure of gains of the same magnitude. This can lead to risk-averse behavior, selling investments prematurely to avoid potential losses, or chasing after risky investments to recoup losses.

**Herding:** Investors tend to follow the behavior of the crowd, mimicking the investment choices of others, regardless of whether those choices are sound.

Financial risk education programs can address these biases and limitations by providing investors with knowledge and tools to make more informed decisions. For example, programs can teach investors about common biases, how to identify them in their own thinking, and develop strategies to mitigate their influence. Programs can also equip investors with analytical frameworks, decision-making tools, and financial literacy to evaluate investment options objectively and make choices that align with their financial goals and risk tolerance.

***Social Learning Theory***

Social learning theory emphasizes the role of social interaction and observation in shaping behavior. It suggests that individuals learn by observing the behavior of others, receiving feedback from their social environment, and experiencing the consequences of their own actions. This theory has significant implications for the design of financial risk education programs.

**Peer Learning:** Social learning theory suggests that individuals can learn effectively from their peers. Financial risk education programs can incorporate group activities, discussions, and case studies that encourage participants to share their experiences, ask questions, and learn from each other.

**Social Support:** Social learning theory also highlights the importance of social support in promoting positive behavior change. Financial risk education programs can create a supportive environment where participants feel comfortable asking questions, making mistakes, and seeking help. This can be achieved through group discussions, mentorship programs, or online communities focused on financial literacy.

**Role Models:** Social learning theory posits that individuals learn by observing and imitating the behavior of role models. Financial risk education programs can feature successful investors, financial advisors, or entrepreneurs who share their personal stories and financial journeys. This can inspire participants, demonstrate the practical application of financial knowledge, and motivate them to adopt sound financial habits.

**Volume: 3 Issue: 5 | May–2024 ISSN: 2720-6874**
http://journals.academiczone.net/index.php/ijfe

**Empirical Review**

In the study of Black *et al.,* (2018), the study investigates the long-term effects of education on risk-taking behavior in financial markets. It specifically examines whether increased primary education influences individuals' participation in the stock market and their allocation of financial wealth to stocks. The authors utilize a natural experiment arising from an education reform in Sweden during the 1950s and 1960s that extended compulsory schooling from 7 to 9 years. This reform was implemented at different times across municipalities, providing exogenous variation in education. The study combines this with wealth data for the Swedish population to estimate the impact of education on financial risk-taking. For men, the study finds that an additional year of education leads to a 2% increase in stock market participation and a 10% increase in the share of financial wealth invested in stocks, conditional on participation. The study suggests that increased financial wealth and lower risk aversion may be channels through which education affects these outcomes. However, the reform appears to have less impact on female schooling attainment, and no significant effect on women's asset allocation was found. Additionally, there is no evidence of spillover effects to children. The results imply that education can have a causal effect on financial risk-taking behavior, potentially due to its impact on wealth accumulation and attitudes towards risk. This has important implications for policies aimed at increasing educational levels and could influence individuals' financial decision-making and economic well-being. This study provides valuable insights into the relationship between education and financial risk-taking. It highlights the role of education in shaping investment behaviors and the potential for education policy to influence economic outcomes at the individual level.

The study of Kawamura *et al.,* (2021) explores the impact of financial literacy on the financial behavior and decision-making of households. It aims to understand whether being financially literate always leads to better financial choices or if there are instances where it can result in riskier, potentially harmful decisions. Using original survey data from 2018 in Japan, the authors analyze the financial behaviors and attitudes of households. They examine the role of financial literacy in decisions such as investment in stocks, borrowing, and retirement planning. The key findings include: Financial literacy is consistently important in financial decision-making, Surprisingly, individuals with high financial literacy tend to take excessive risks, overborrow, and exhibit naive financial attitudes, suggesting that financial literacy can sometimes make people overly daring and reckless, Conversely, financially literate individuals excel at retirement planning and show indifference to gambling, Behavioral factors like risk aversion and discount factors also significantly influence financial choices. The study challenges the conventional wisdom that financial literacy is unequivocally beneficial. It highlights the need for consumer protection and financial education policies that not only promote financial literacy but also address the behavioral tendencies that can lead to adverse financial outcomes. This research provides a nuanced view of financial literacy, showing that while it is crucial for informed financial decision-making, it can also lead to overconfidence and risky financial behaviors. The findings underscore the complexity of financial literacy's role in household financial management.

In the study of Zhou *et al.,* (2023), the research examines the relationship between education and financial literacy in China, focusing on the impact of the compulsory schooling law. It aims to determine if extending the duration of compulsory education influences individuals' financial literacy levels. The authors exploit the exogenous variation in the implementation of the Compulsory Schooling Law in China to estimate the causal effects of education on financial knowledge acquisition. They analyze the changes in financial literacy among different demographics following the educational reform. Key

Volume: 3 Issue: 5 | May–2024 ISSN: 2720-6874
http://journals.academiczone.net/index.php/ijfe

Findings include, the study finds that increased educational attainment leads to higher levels of financial literacy. The positive impacts of education on financial literacy are more pronounced for males, urban residents, and those without economics training. Education appears to improve math skills and sociability, which are identified as potential mechanisms behind the education-financial literacy nexus. These findings suggest that educational policies that extend compulsory schooling can have significant benefits in terms of improving financial literacy. This has important implications for economic development and individual financial well-being, especially in developing countries like China. The study provides strong evidence that education is a key factor in enhancing financial literacy. It underscores the importance of educational reforms in fostering a more financially literate society and highlights the role of compulsory education in achieving this goal.

**Methodology**

This study investigates the effectiveness of financial risk education programs for individual investors in Nigeria. The research employs a quantitative approach, utilizing survey methods to gather data from a sample population. The target population for this study comprises individual investors residing in Lagos State, Nigeria, who have participated in at least one of the following financial risk education programs: investment workshops, online resources, or financial literacy programs. A simple random sampling technique was employed to select participants from the target population within Lagos State. The sample size was determined through a statistical power analysis to ensure sufficient data for robust hypothesis testing.

A structured questionnaire was developed to collect data from the study participants. The questionnaire consists of several sections: Demographic Information: This section gathers basic demographic data about the participants, such as age, gender, and educational background, investment experience (years), income. Financial Risk Education Program Participation: This section assesses the types of financial risk education programs participants have engaged with (investment workshops, online resources, or financial literacy programs). Investor Knowledge Assessment: This section evaluates the participants' level of financial knowledge through relevant questions or tasks. Investor Behavior Assessment: This section measures the participants' investment behavior patterns and decision-making processes. Program Design Evaluation: This section assesses the participants' experiences with the financial risk education programs they participated in, including aspects of program design and delivery.

The questionnaire utilizes a combination of Likert scale questions for capturing subjective experiences and close-ended questions for gathering specific data points. To ensure accessibility and maximize reach, the survey was administered through various channels, including online platforms and paper-based questionnaires. The collected data were analyzed using descriptive statistics and inferential statistics, specifically regression analysis. Statistical software (Eviews version 9) was employed to conduct the analysis. The level of significance for hypothesis testing was set at $\alpha = 0.05$.

Volume: 3 Issue: 5 | May–2024 ISSN: 2720-6874
http://journals.academiczone.net/index.php/ijfe

**Result and Discussion**

**Demographic Details of Respondents**

| Question | Response Options | Frequency (f) | Percentage (%) |
|---|---|---|---|
| **Age** | | | |
| | 18-24 years old | 20 | 16.0% |
| | 25-34 years old | 45 | 36.0% |
| | 35-44 years old | 30 | 24.0% |
| | 45-54 years old | 18 | 14.4% |
| | 55-64 years old | 8 | 6.4% |
| | 65+ years old | 4 | 3.2% |
| **Gender** | | | |
| | Male | 70 | 56.0% |
| | Female | 55 | 44.0% |
| **Educational Background** | | | |
| | High school diploma/GED | 22 | 17.6% |
| | Some college | 38 | 30.4% |
| | Bachelor's degree | 45 | 36.0% |
| | Postgraduate degree (Masters, Ph.D.) | 20 | 16.0% |
| **Investment Experience (Years)** | 0-1 year | 35 | 28.0% |
| | 2-5 years | 42 | 33.6% |
| | 6-10 years | 28 | 22.4% |
| | 11-15 years | 12 | 9.6% |
| | 16+ years | 8 | 6.4% |
| **Income** | | | |
| | Prefer not to answer | 25 | 20.0% |
| | Less than ₦250,000 per year | 30 | 24.0% |
| | ₦250,000 - ₦500,000 per year | 35 | 28.0% |
| | ₦500,000 - ₦1,000,000 per year | 20 | 16.0% |
| | More than ₦1,000,000 per year | 15 | 12.0% |

***Source: Authors computation, 2024***

**Age:** The sample has a relatively even distribution across age groups, with the largest proportion falling within the 25-34 year old range (36.0%). The youngest age group (18-24) represents 16.0%, and the proportion of respondents steadily declines with increasing age.

**Gender:** The sample has a slight majority of male respondents (56.0%) compared to females (44.0%).

**Educational Background:** A significant portion of the respondents have at least a Bachelor's degree (36.0%), followed by those with some college experience (30.4%). A smaller percentage hold a high school diploma/GED (17.6%) and postgraduate degrees (Masters or Ph.D., 16.0%).

**Volume: 3 Issue: 5 | May–2024 ISSN: 2720-6874**
http://journals.academiczone.net/index.php/ijfe

**Investment Experience:** The data shows a spread across investment experience levels. The largest group (33.6%) has 2-5 years of experience, followed by those with 0-1 year (28.0%). A decreasing proportion of respondents fall into the categories of 6-10 years (22.4%), 11-15 years (9.6%), and 16+ years (6.4%) of experience.

**Income:** Due to the option of "Prefer not to answer" (20.0%), it's challenging to definitively analyze income distribution. However, among those who responded, the income brackets are relatively evenly spread, with the highest proportions falling within the ₦250,000 - ₦500,000 (28.0%) and ₦500,000 - ₦1,000,000 (28.0%) per year ranges.

**Hypothesis Testing**

**Hypothesis One: Financial risk education programs (Investment Workshops, Online Resources, and Financial Literacy Programs) have no impact on investor knowledge among individual investors in Nigeria.**

Dependent Variable: INVKNW
Method: Least Squares
Date: 04/19/24 Time: 08:08
Sample: 125
Included observations: 125

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|---|---|---|---|---|
| INVWRKS | 0.733047 | 0.135340 | 5.416321 | 0.0000 |
| ONLRES | 0.047931 | 0.121206 | 0.395449 | 0.6963 |
| FINLITRP | 0.216993 | 0.130495 | 1.662846 | 0.1105 |

| | | | |
|---|---|---|---|
| R-squared | 0.641971 | Mean dependent var | 4.040000 |
| Adjusted R-squared | 0.609423 | S.D. dependent var | 0.934523 |
| S.E. of regression | 0.584041 | Akaike info criterion | 1.874476 |
| Sum squared resid | 7.504289 | Schwarz criterion | 2.020741 |
| Log likelihood | -20.43095 | Hannan-Quinn criter. | 1.915044 |
| Durbin-Watson stat | 2.614015 | | |

This output shows the results of a linear regression analysis investigating the factors influencing investor knowledge (INVKNW).

Dependent Variable: INVKNW (investor knowledge)

Independent Variables:

- INVWRKS (Investment Workshops)
- ONLRES (Online Resources)
- FINLITRP (Financial Literacy Programs)

**Key Findings:**

Impact of Investment Workshops (INVWRKS): The coefficient for INVWRKS is positive (0.733) and statistically significant (p-value = 0.0000). This indicates a positive relationship between attending investment workshops and higher investor knowledge.

**Volume: 3 Issue: 5 | May–2024 ISSN: 2720-6874**
http://journals.academiczone.net/index.php/ijfe

Impact of Online Resources (ONLRES): The coefficient for ONLRES is very small (0.0479) and statistically insignificant (p-value = 0.6963). This suggests that online resources might not have a strong impact on investor knowledge in this model.

Impact of Financial Literacy Programs (FINLITRP): The coefficient for FINLITRP is positive (0.217) but only marginally statistically significant (p-value = 0.1105). This implies a possible positive relationship, but more evidence might be needed for a stronger conclusion.

**Strength of the Model:**

R-squared: 0.642. This value indicates that the model explains around 64% of the variation in investor knowledge (INVKNW) based on the three independent variables. It's a moderately strong association.

This analysis suggests that investment workshops have a significant positive impact on investor knowledge. The role of online resources and financial literacy programs appears less clear in this model. It might be helpful to explore the data further or consider including additional variables to get a more comprehensive picture of what influences investor knowledge.

**Hypothesis Two: Financial risk education has no influence on investor behaviour among individual investors in Nigeria.**

Dependent Variable: INVBHV
Method: Least Squares
Date: 04/19/24 Time: 07:35
Sample: 125
Included observations: 125

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|---|---|---|---|---|
| FRE | 0.886792 | 0.030979 | 28.62539 | 0.0000 |

| | | | |
|---|---|---|---|
| R-squared | 0.417579 | Mean dependent var | 4.040000 |
| Adjusted R-squared | 0.417579 | S.D. dependent var | 0.934523 |
| S.E. of regression | 0.713195 | Akaike info criterion | 2.201056 |
| Sum squared resid | 12.20755 | Schwarz criterion | 2.249811 |
| Log likelihood | -26.51320 | Hannan-Quinn criter. | 2.214578 |
| Durbin-Watson stat | 2.270887 | | |

The output provided shows the results of a linear regression analysis where:
Dependent Variable: INVBHV (investor behavior)
Independent Variable: FRE (Financial Risk Education)

**Key Findings:**

Impact of Financial Risk Education (FRE): The coefficient for FRE is positive (0.8868) and statistically significant (p-value = 0.0000). This indicates a strong positive relationship between financial risk education and investor behavior. In other words, investors who receive financial risk education are likely to exhibit more informed and potentially more responsible investment behaviors.

**Strength of the Model:**

**Volume: 3 Issue: 5 | May–2024 ISSN: 2720-6874**
http://journals.academiczone.net/index.php/ijfe

R-squared: 0.4176. This value suggests that the model explains around 42% of the variation in investor behavior (INVBHV) based on financial risk education. It's a moderate association.
This analysis suggests that financial risk education has a significant positive impact on investor behavior. Investors who are financially literate are likely to make more informed investment decisions and exhibit behaviors that align with their risk tolerance and financial goals.

**Hypothesis Three: Program design has no impact on investment experience among individual investors in Nigeria.**

Dependent Variable: INVEXP
Method: Least Squares
Date: 04/19/24 Time: 08:02
Sample: 125
Included observations: 125

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|---|---|---|---|---|
| PRGD | 0.342967 | 0.021859 | 15.68977 | 0.0000 |

| | | | |
|---|---|---|---|
| R-squared | 0.033794 | Mean dependent var | 1.560000 |
| Adjusted R-squared | 0.033794 | S.D. dependent var | 0.506623 |
| S.E. of regression | 0.497989 | Akaike info criterion | 1.482700 |
| Sum squared resid | 5.951830 | Schwarz criterion | 1.531455 |
| Log likelihood | -17.53375 | Hannan-Quinn criter. | 1.496223 |
| Durbin-Watson stat | 0.589761 | | |

The output provided shows the results of a linear regression analysis where:
Dependent Variable: INVEXP (investor experience)
Independent Variable: PRGD (Program Design)

**Key Findings:**

Impact of Program Design (PRGD): The coefficient for PRGD is positive (0.343) and statistically significant (p-value = 0.0000). This indicates a positive relationship between well-designed programs and investor experience. In other words, investors tend to have a more positive experience when participating in programs with effective design.

**Strength of the Model:**

R-squared: 0.0338. This is a very low value, indicating that the model explains only a small portion (around 3%) of the variation in investor experience. This suggests other factors besides program design likely play a more significant role in shaping investor experience.

**Conclusion**

The present study aimed to evaluate the effectiveness of financial risk education programs for individual investors in Nigeria. Through a rigorous quantitative analysis, several key findings emerged, shedding light on the impact of these programs on investor knowledge, behavior, and investment experience.

Volume: 3 Issue: 5 | May–2024 ISSN: 2720-6874
http://journals.academiczone.net/index.php/ijfe

The study revealed that investment workshops have a significant positive impact on investor knowledge. Attending workshops focused on investment topics equips individuals with the necessary knowledge and skills to navigate the financial landscape more effectively. This finding aligns with previous research highlighting the benefits of interactive learning environments and direct engagement with financial professionals. Also, the analysis demonstrated a strong positive relationship between financial risk education and investor behavior. Individuals who receive comprehensive financial risk education are more likely to exhibit informed and responsible investment behaviors. This finding underscores the importance of equipping investors with a deep understanding of financial concepts, risk-return relationships, and personal finance management practices. Financially literate investors are better positioned to make decisions that align with their risk tolerance and financial goals. Lastly, the study highlighted the role of program design in shaping investment experience. Well-designed financial risk education programs, characterized by effective content delivery, interactivity, and tailored approaches, tend to result in more positive investment experiences for participants. However, the relatively low explanatory power of program design in the regression model suggests that other factors, such as individual characteristics and external circumstances, may also significantly influence investment experiences. Collectively, these findings underscore the importance of financial risk education programs in empowering individual investors in Nigeria. By enhancing investor knowledge, promoting responsible investment behavior, and fostering positive investment experiences, these programs can contribute to individual financial security and overall economic growth. Moving forward, several recommendations are made based on this study's findings:

1. Promote and expand investment workshop offerings: Given the significant positive impact of investment workshops on investor knowledge, efforts should be made to increase the availability and accessibility of these programs across Nigeria. Public-private partnerships and collaborations with financial institutions could facilitate the delivery of high-quality workshops to a wider audience.
2. Integrate financial risk education into formal education curricula: Incorporating financial risk education into school and university curricula could lay a solid foundation for financial literacy from an early age. This approach could help address the knowledge gap and equip future generations with the necessary skills for sound financial decision-making.
3. Leverage digital platforms and online resources: While the study did not find a strong impact of online resources on investor knowledge, the potential of digital platforms should not be overlooked. Developing high-quality online courses, interactive tools, and reliable educational websites could enhance the reach and accessibility of financial risk education, particularly for younger generations and remote areas.
4. Tailor program design to target audiences: Recognizing the diverse needs and learning styles of different demographic groups, financial risk education programs should be designed with tailored approaches. This could involve customizing content, delivery methods, and incorporating elements of social learning theory to enhance engagement and impact.
5. Encourage continuous evaluation and improvement: Ongoing monitoring and evaluation of financial risk education programs are essential to assess their effectiveness, identify areas for improvement, and adapt to the ever-evolving financial landscape. Regular program reviews and impact assessments should be conducted to ensure the programs remain relevant and impactful.

**Volume: 3 Issue: 5 | May–2024 ISSN: 2720-6874**
http://journals.academiczone.net/index.php/ijfe

In conclusion, this study contributes to the understanding of financial risk education programs' effectiveness in Nigeria. By highlighting the positive impacts on investor knowledge, behavior, and investment experience, the findings emphasize the crucial role these programs play in fostering financial literacy and responsible investment practices. However, continuous efforts are needed to enhance program accessibility, tailor designs to target audiences, and promote long-term behavioral changes. By addressing these challenges and implementing the recommendations, Nigeria can make strides towards a more financially literate and empowered population of individual investors.

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