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Can we predict individual investors’ behavior in stock markets? A psychological approach*

¿Es posible predecir el comportamiento de los inversionistas en los mercados bursátiles?
Una aproximación psicológica


David Pascual-Ezama**
Bárbara Scandroglio***
Beatriz Gil-Gómez de Liaño****

Abstract

Understanding financial markets and investors’ behavior is one of the biggest objectives in finance. However, most of the research obtained conclusions about individual investors, but they are not studying real individual investors’ behavior: they analyzed stock price evolution or used aggregate investor data that essentially belongs to founds and big investors. Psychology has improved financial knowledge and solved many of those financial limitations. Because of that, we decided to apply one of the most valid psychological models to study human behavior, in order to better understand real individual investors’ behavior: the Theory of Planned Behavior (TPB; Ajzen, 1991). The model was applied to 127 real investors obtained by the “snowball” technique. According to results, TPB seems to be a good model to understand individual investor’s behavior, while explaining 63% of the investments’ intentions and 48% of the investments’ behavior.

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Key words authors: Individual investors’ behavior, Theory of Planned Behavior (TPB), Stock Markets, investment decision.

Key words plus
Consumer behavior, market psychology, quantitative research.

Resumen
Entender los mercados financieros y el comportamiento de los inversionistas es uno de los objetivos principales en materia de finanzas. Sin embargo, se encuentra que la mayor parte de las conclusiones de estas investigaciones sobre los inversionistas no estudian el comportamiento de los mismos: normalmente se encuentra un análisis de la evolución de los precios de las acciones o datos utilizados de inversionistas que pertenecen esencialmente a los grandes mercados. La psicología ha mejorado el conocimiento financiero y ha resuelto muchas de las limitaciones en finanzas. Debido a esto, se ha decidido aplicar uno de los modelos psicológicos más válidos para estudiar el comportamiento humano, con el fin de comprender mejor el comportamiento de los inversionistas. Este modelo es la Teoría del Comportamiento Planeado ([TPB]; Ajzen, 1991). El modelo se aplicó a 127 inversionistas reclutados por la técnica de “bola de nieve”. Según los resultados, el TPB parece ser un buen modelo para comprender el comportamiento de los individuos, al tiempo que explicó el 63 % de la intención de inversión y el 48 % de la conducta de inversión.

Palabras clave autores
Comportamiento de inversionistas, Teoría del Comportamiento Planeado (TPB), corredores de bolsa, decisiones de inversión.

Palabras clave descriptores
Comportamiento del consumidor, psicología del consumidor, investigación cuantitativa.

Introduction

In the classic Economic Theory the rationality of economic agents is one key factor to explain economical processes. However, in recent years, many works have been published about individual investors’ behavior showing that different types of investors have different types of biases. That is, researchers have realized about the importance to take into account investors’ irrationality in order to understand individual investors’
behavior. Recent results have even showed how these irrational behaviors deleteriously affect the financial well being of individual investors (Barber & Odean, 2011). Because of that, many theoretical models, such as Barberis, Shleifer, and Vishny (1998) or Lovric, Kaymak, and Spronk (2008), have been proposed in order to explain the implications of irrationality in individual investors’ behavior in the stock markets.

However, there are very few empirical results of most of these models (although with some exceptions like: Wang, Zhang, & Hua, 2011). Moreover, the main objective of these models has been focused in the analysis of the main variables or behavioral biases that affect individual investors’ decision-making processes. Only in very few papers it has been analyzed in order to predict individual investors’ behavior. In our opinion, being able to understand individual investor behavior, and knowing our limitations as humans, is essential to predict individual investors’ decision-making processes. Because of that, in the present paper we have applied a psychological theoretical model as an attempt to understand and predict both individual investors’ intention and behavior in the stock market.

Human behavior has been studied in the field of Psychology using different models; the Theory of Reasoned Action ([TAR]; Fishbein & Ajzen, 1975) or the Motivation and Opportunity as Determinants of Processing Model ([MODE]; Fazio, 1986), among others (e.g., Bagozzi & Kimmel, 1995). However, the Theory of Planned Behavior ([TPB]; Ajzen, 1991) has been probably the most satisfactorily applied model for studying human behavior in a wide variety of situations (Cooke & Sheeran, 2004). In fact, TPB or a branch of TPB has been applied to study different kind of investment, including ethical (Anand & Cowton, 1993; Hofmann, Penz, & Kirchler, 2009; Kurland, 1996; Jansson & Biel, 2006), informal (Wong & Ho, 2007), online transactions such as internet stock trading (Grandon, 2005; Ramayah, Rouibah, Gopi, & Rangel, 2009; Singh, Sandhu, & Kundu, 2010) or online banking (Rouibah, Ramayah, & May, 2009; Shihi & Fang, 2004).

Regarding to stock markets individual investment, TPB has been applied to predict investments’ intention in a particular sector (East, 1993), to analyze the factors that affect the growth of internet stock trading (Lee-Partridge & Ho, 2003) or to investigate how stock investors perceive online trading (Lee, 2009). However, in all these works either they don’t predict behavior (only intention), nor they use the original building Ajzen’s questionnaire, or, more importantly, the sample is not a real investors one (they use students that not necessarily invest in the stock markets). Therefore, we applied TPB trying to solve several limitations found in previous studies.
The paper is organized as follows. The next section reviews model theory as developed in psychology literature and hypotheses derived from the model. Then, we inform about the design and procedure, to finish showing the results and the analyses. The discussion and final conclusions can be found in the last section.

**Theory of Planned Behavior**

The TPB is an extension of the Theory of Reasoned Action (TRA; Fishbein & Ajzen, 1975; Ajzen & Fishbein, 1980) and was proposed to answer a few limitations in the TRA. TRA is limited because it assumes that actions are totally under volitional control: it assumes that individuals are rational, so they have the ability to process and evaluate all of the available information as well as to take into account the effects of their possible actions and base their behavior on this reasoning decision (Fishbein & Ajzen, 1975; Ajzen & Fishbein, 1980). The great contribution of the TPB is the introduction of perceived behavioral control. Perceived behavioral control includes those non-volitional elements of uncertainty that are beyond individual’s volition, thus reflecting the perceived ease or difficulty associated with execution of future behavior. When the adequate degree of actual control and opportunity is present, individuals will be able to act upon this intention and perform the behavior. The perceived behavioral control is specially relevant when individual investment in stock market is analyzed because, on the one hand, it is associated with risks and uncertainty (Thaler, 1980) and, on the other hand, because investors take usually into account a wide range of factors in their decision-taking process (Oberlechner & Hocking, 2004).

Intention, according to TRA and TPB, is the best predictor of behavior and it is assumed to be the immediate antecedent of behavior (Ajzen, 2002). Hence, attitudes, subjective norms and perceived behavioral control are assumed to have an indirect effect on a given action through their effect on intention. However, in situations where the individuals’ volitional control of the action decreases, the intention alone may not be enough to predict action (Ajzen, 1991). In contexts where their personal and/or environmental barriers to behavior exist, perceived behavioral control is assumed to have an independent direct effect on action over and above intention.

According to Ajzen (1991), true to its goal of explaining human behavior, not merely predicting it, the theory of planned behavior, deals with the antecedents of attitudes, subjective norms, and perceived behavioral control, antecedents, which in the final analysis determine intentions and actions. These antecedents are the behavioral,
normative and control beliefs that are assumed to influence respectively attitudes towards behavior, subjective norms and perceived behavioral control. According to the expectancy-value model, like the TRA and TPB, people’s accessible beliefs about behavior – defined as the subjective probability that behavior will produce a certain outcome – determine their attitudes towards any behavior (Fishbein & Ajzen, 1975). Specifically, the evaluation of each outcome contributes to the attitude, in direct proportion, to the person’s subjective probability that the behavior produces the outcome in question (Hrubes, Ajzen, & Daigle, 2001). Normative beliefs are concerned with the likelihood that important referents approve or disapprove of performing a given behavior by the person’s motivation to comply with the referent in question (Ajzen, 1991). Control beliefs include different factors related to the presence or absence of requisite resources and opportunities by the perceived power of the particular control factor, in order to facilitate or inhibit performance of behavior (Ajzen, 1991).

Regarding the power of TPB factors to predict real behavior, Sheeran (2002) reported that intention accounted for almost one-third of the variance in behavior, while intentions and perceived behavior control predict between 28% and 34% of the variance in behavior (Armitage & Conner, 2001; Godin & Kok, 1996; Trafimow, Sheeran, Conner, & Finlay, 2002). Equally, attitudes, subjective norms and perceived behavioral control were accounting for between 39% and 42% of the variance for intentions (Armitage & Conner, 2001; Godin & Kok, 1996; Sheeran & Taylor, 1999). Therefore the theory of planned behavior can provide a theoretical framework for current research about factors that influence individual’s investment behavior in the stock market. Because of that, we have selected the Theory of Planned Behavior (TPB) in order to explain and predict the behavior of individual investors in the stock exchange, and have hypothesized that it is a good model to explain and predict individual investors’ behavior.

In agreement to that and, according to usual TPB predictions (Figure 1), we have also hypothesized that:

H1: An individual investor's intention towards investing in stocks exchange will be positively associated with behavior towards investing in stocks exchange.

H2: An individual investor's attitudes towards investing in stocks exchange will be positively associated with behavioral intentions towards investing in stocks exchange.

H3: An individual investor's subjective norms towards investing in stocks exchange will be positively associated with behavioral intentions towards investing in stocks exchange.
H4: An individual investor’s perceived behavioral control toward investing in stocks exchange will be positively associated with behavioral intentions towards investing in stocks exchange.

H5: Attitudinal beliefs, normative beliefs and perceived control beliefs will be positively related with, respectively, attitude, subjective norm and perceived behavioral control.

![TCP Hypothesis (Path analysis).](source)

**Method**

As we previously mentioned, we applied the TPB trying to solve several limitations found in previous studies. Contrary to many other studies, our sample consists of real investors (avoiding student samples) in real markets (no simulations) without any kind of restrictions (full markets, not only a particular sector). In addition, we have used the original TPB questionnaire and we have measured not only intention but also behavior.

**Sample**

127 individual investors, from the Spanish stock exchange, participated in this study (48% women and 52% men). The average age was 28.02 (SD = 8.57). Regarding educational achievement, the majority of investors (98%) had completed university studies and 5% of them had finished Master or PhD programs. The average investment
experience was 7.6 years (SD = 6.04) with an average bet between twenty thousands and five hundred euros.

**Instrument**

Intention, attitude, subjective norm, perceived behavioral control and believes were measured by means of a self-applied questionnaire on 5-point scales (anchor ratings were 1 and 5). All items were based in Ajzen (2006) specifications of elaborating the questionnaire.

Final Behavior (FB): One month after the application of the questionnaire, we contacted investors asking them how many times they had invested each week in the last month.

Intention (I): A single item was used to assess investors’ intention, asking whether they planned to invest in stock exchange during the next month.

Attitude (A): Five items were used to assess attitude, by asking investors whether it would be beneficial, good, valuable, pleasant, and enjoyable to invest in the stock exchange.

Subjective norm (SN): Three items used to assess subjective norm asked them whether people who are important in their lives approve, expect and think that they should invest in the stock exchange.

Perceived behavioral control (PBC): It was measured by a four items scale in the following way: (a) For me it’s possible ...; (b) If I wanted to I could ...; (c) How much control do you believe you have over ...; (d) It is mostly up to me whether or not ... invest in the stock exchange.

Believes (B): As Ajzen (2006) suggests, a pilot work is required in order to identify accessible behavioral, normative, and control beliefs. Firstly, respondents were given a description of the behavior and a few questions about it by means of interviews. Responses were used to identify personal salient beliefs and to construct a list of modal salient beliefs. Then, modal salient beliefs provided the basis for constructing the standard questionnaire that was finally used in the study. Expected consequences were the following: *To obtain profit, diversify investment and risk, have liquidity, have fun, increase economic risk, and increase the risk of making mistakes.* External factors were: *specialized knowledge, access to information, sufficient information, initial economic resources, using electronic banks, consulting the available information, having available*
time, and resorting to intermediaries. We considered as reference groups the following: family, job peers, friends, brokers, and specialized media.

**Procedure**

We contacted investors in the Spanish Stock Exchange by e-mail. Our objective was to create a contact chain to increase the number of potential investors. We sent an e-mail to all of our contacts, friends, family and workmates, requesting to fill out the questionnaire if they were investors in the stock market. All of them had to forward the message to all of their contacts, also requesting to fill out the questionnaire if they were investors. Each investor in the sample received a copy of the questionnaire by e-mail, together with instructions about how to fill it out and a few demographic questions about themselves. All participants were reassured about the anonymity and confidentiality of the treatment of their responses.

**Statistical Analyses**

Research hypotheses were tested using Path Analysis in a structural equation modeling (SEM). Variables including more than one item were introduced in the model by means of item average. The hypothesized model was estimated with maximum likelihood procedures and assessed using LISREL 8.72 for Windows (Jöreskog & Sörbom, 1993). SEM assumes linear relationships among variables, and tests these relationships against the data collected. The analytical procedure assumes a causal structure between exogenous and endogenous variables, and allows the estimation of direct, indirect, and total effects (Kline, 1998).

Following the recommendations of Hu and Bentler (1995), the model fit was evaluated by means of various goodness of fit index. In addition to chi-square, we use chi-square divided by the degrees of freedom, which is less sensitive to sample size. For this estimation, values below three are considered satisfactory (Bollen & Long, 1993).
Other indices were the root mean square error of approximation (RMSEA), the goodness of fit index (GFI), the comparative fit index (CFI), the normed fit index (NFI) and the non normed fit index (NNFI). For the RMSEA, values below 0.05 are considered as a good fit, values between 0.05 and 0.08 as acceptable, and values higher than 0.08 as reasonable errors of approximation in the population (Browne & Cudeck, 1992). The GFI should be above 0.9 (Bentler, 1992), as should the NFI and the CFI. Other authors are more exigent and accept some index above 0.95 (Schermelleh-Engel & Moosbrugger, 2003).

**Results**

Path Analysis (Figure 1) for the 127 individual investors sample shows that TPB predicts investment behavior (48%) and intention (63%), and the results suggested an adequate model fit (CFI = 1.0; NFI = 0.98; GFI = 0.98; $\chi^2 = 3.29$; $df = 9$; $p < 0.05$) as we can see in Table 1.

*Figure 1. Path analysis.*

Source: Own work.

Table 1

*Fit Index*
We explored the observed pair-wise correlation between the variables included in the model (Table 2). Individual investor's intention is positively correlated with investment behavior (H1: 0.25 with \( p < 0.01 \)), and individual investor's attitudes and control toward investing in stocks exchange are positively associated with behavioral intentions (H2: 0.53 and H4: 0.2; \( p < 0.01 \) for both). On the other hand, individual investor's subjective norms are not positively associated with behavioral intentions, so we cannot maintain H3. Attitudinal beliefs and control beliefs are also related to the intention to invest in the stock market during the next month.

The correlation index between attitudinal beliefs and intention (0.48 with \( p < 0.01 \)) is essentially the same as the correlation index between attitude and intention, whereas the correlation index between control beliefs and intention (0.31 with \( p < 0.01 \)) is clearly higher than the correlation index between perceived control and intention. We can also maintain H5 because attitudinal beliefs are positively related to attitude (0.76 with \( p < 0.01 \)), normative beliefs are related to the subjective norm (0.2 with \( p < 0.01 \)) and control beliefs to perceived control (0.24 with \( p < 0.01 \)). Therefore, we can maintain H1, H2, H4 and H5 but not H3 (Figure 1).

Table 2

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<tr>
<th>Means, Standard Deviations, Cronbach`s Alpha and Correlation for Variables</th>
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<td><strong>Behavior</strong></td>
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Source: Own work.
Discussion

Taking into account the percentage of explained variance of intention and behavior in the most recent meta-analyses about TPB (in a variety of different behaviors - between 39% and 42% and between 27% and 34% respectively for intention and behavior (Armitage & Conner, 2001; Godin & Kok, 1996; Sheeran & Taylor, 1999) our results are more than satisfactory: 63% of investment intention and 48% of investment behavior, as well as the good fit index for the model.

Retaking the hypothesis mentioned in the introduction, and according to the results found, we are going to comment each variable described in the TPB and its relevance in order to understand and predict individual investors behavior.

Regarding Intention, we have found that the intention towards investing in stocks exchange is positively associated with the behavior towards investing. This result is in accordance to social psychology researchers, also considering intention as a very important variable in the study of behavior (Ajzen & Fishbein, 1980). However, it has not been considered very important by investment researchers with several exceptions in the recent years (e.g. Mayfield, Perdue, & Wooten, 2008).

On the other hand, and as predicted, attitudes in the TPB model are positively associated with behavioral intentions towards investing in stocks exchange. In fact, it has been the variable with the strongest correlation both with intention and behavior. Lee (2009) found attitude as the most relevant variable to explain online trading intention (although behavior was not measured), as well as Ramayah et al. (2009) to explain intention to use Internet stock trading. In the same vein, Van Raaij and Gianotten (1990), and more recently Brown, Taylor, and Wheatley Price (2005), found that the more
optimistic people are, the more likely they are to borrow money. Specifically, people with more positive attitudes towards borrowing money are more likely to use credit, than people who hold negative attitudes about borrowing (Livingstone & Lunt, 1992). Altogether these results point out the necessity to study attitude to understand not only investors’ intentions (as shown in present and other works), but also investors’ behavior; as shown in the present work.

About Subjective Norm, the perception of the importance that the “other important” for the investors may have in the final decision to make or not a certain conduct (Ajzen & Fishbein, 1980), according to our data, it is not clear to be an important variable to predict individual investors intentions to invest. In the study of individual investors’ behavior, several authors through the last years have studied Subjective Norm. Investors’ decisions may be influenced by other investors’ commentaries or by popular beliefs and conversations between investors (Hirshleifer, 2001; Shiller, 1990; Shiller & Pound, 1989). Moreover, the perception of self-confidence could also increase because of these conversations, making it difficult to distinguish between relevant and irrelevant information of the investment (Hirshleifer, 2001).

However, in our model, subjective norm is not positively associated with behavioral intentions toward investing in stocks exchange. One possible explanation is suggested by Trafimow and Fishbein (1994), for whom the differential weight of the attitudinal and normative components depend on the considered behavior, or even on individual characteristics (Ajzen & Fishbein, 2005). In fact, Lee (2009) also found a very poor role of subjective norm in stock trading intention. Another explanation (or even a complementary explanation) could be based in the proposal written by Cooke and Sheeran (2004). They pointed out that a strong explanatory power of attitudes can hide the explanatory power of subjective norm, and in that case, attitudes would be positively associated not only with behavioral intentions but also with behavior directly, which is exactly the case of our results.

Therefore and according to Cooke and Sheeran (2004), redoing the analysis, when we removed attitudes from the model, subjective norm is more important, and is in fact positively correlated with behavioral intentions; although the model loses explanatory power. With all this in mind, we should not forget that financial transactions may be very private for many people; thus, possibly people could be less influenced by norms, in contrast to other social behaviors. Also, some individuals may motivate people more than others depending on their perceived competence with the stock market.
Another important component of the TPB is Control, which has not been one of the most popular variables in the field of investment analysis. However, our study supports the importance of control, as well as other applications of the model in similar behaviors (East, 1993; Lee, 2009; Ramayah et al., 2009). In fact, there is some work analyzing the importance of perceived control of investors’ behavior in the stock markets. Thaler (1980) demonstrated that if the investor perception of control is high, they tend to be more self-confident on their investment and they also invest bigger amounts of money.

Finally, Beliefs, predecessors of attitude, subjective norm and control in the TPB, have also been relevant in the study of individual investors’ behavior. Like in other components of the model, we have found that an individual investor's beliefs toward attitudes and perceived behavioral control are positively associated with attitudes and control, respectively and indirectly, with behavioral Intentions towards investing in stocks exchange. According to this, others have found beliefs as important factors to understand the investor behavior. Weinstein (1980) found that individual investors’ beliefs with regard to their real abilities to invest were too optimistic. In addition, modifying beliefs after new events take a long time, and when those events are highly shocking, modification is stronger (Edwards, 1968). Odean (1998) also found that investors have the false belief that losses and gains are “reverted”, so that many investors prefer to sell under winning positions and to maintain their money under losing situations.

According to the results of the present study, the model proposed by the Theory of Planned Behavior (Ajzen, 1991) seems an efficacious tool to explain and predict individual investors’ behavior in stock markets. In fact, the model explains almost two thirds of the variance of the intention to invest in the stock market, and about a half of the variance of behavior. Therefore, from a methodological point of view, these results are satisfactory if we compare them with previous results of the model. Probably one of the most important results found in the present work is the fact that variables like attitudes and control, which are not usually studied in the field of investors’ behavior, must be two key variables to study, in order to understand and predict not only investors’ intentions but also their behavior. These results point out the evident need to introduce psychological factors to understand human behavior in the stock market. There is a need to strengthen economic and psychological fields in order to understand certain human behaviors in the economic field, such as individual investors’ behavior.

However, this study has also some limitations in an applied business world. Although in social sciences, explaining 40% - 60% of intention or behavior is considered a
noteworthy accomplishment, for banking financial advisors who need to understand customer/investor behavior in order to suggest different investment alternatives, the prediction of the 50% of behavior or the 60% of intention according to the TPB may be unsatisfactory results. Also, the sample is not very large and perhaps it is not sufficiently representative of a larger population, however, it is ideal for our purposes, as we are using real individual investors, contrary to other studies that use student samples.

We need to leap in order to build a more consistent bridge between theoretical academic fields and daily companies’ activities. Therefore, further research must be focused on improving existing models or proposing new ones, which allow us to apply the results found in basic research. We really think that the study of psychological factors, such as attitudes and control may be a good start to advance in the knowledge of individual investors’ behavior in the stock markets.

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