Do You Love Me? Psychological Characteristics of Romance Scam Victims

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Abstract

The online dating romance scam is an Advance Fee Fraud, typically conducted by international criminal groups via online dating sites and social networking sites. This type of mass-marketing fraud (MMF) is the most frequently reported type of MMF in most Western countries. This study examined the psychological characteristics of romance scam victims by comparing romance scam victims with those who had never been scammed by MMFs. Romance scam victims tend to be middle-aged, well-educated women. Moreover, they tend to be more impulsive (scoring high on urgency and sensation seeking), less kind, more trustworthy, and have an addictive disposition. It is argued here that these findings might be useful for those developing prevention programs and awareness campaigns.

Keywords: romance scam, fraud, cybercrime, mass marketing fraud

Introduction

Mass-marketing fraud (MMF) is a type of fraud that exploits mass communication techniques (e.g., email, Instant Messenger, bulk mailing, social networking sites) to trick people out of money. One of the most well known of these is the 419 (Nigerian email scam), which existed in letter writing before the Internet. In the last 10 years we have witnessed an explosion of this crime on a global scale. In the United Kingdom in 2016, it was reported in the British Crime National survey that citizens are 10 times more likely to be robbed while at their computer by a criminal-based overseas than to fall victim of theft.1 Given the numbers of individuals scammed by MMF, there is an urgent need to understand in more detail the reasons why people are tricked and the kinds of people who are more vulnerable to becoming scammed.

The romance scam (also referred to as the online dating romance scam or the sweethearts scam) is of particular concern given the numbers of victims reported worldwide.1,6 The online dating romance scam is an Advance Fee Fraud, typically conducted by international criminal groups via online dating sites and social networking sites.6 Criminals pretend to initiate a relationship with the intention to defraud their victims of large sums of money. Scammers create fake profiles on dating sites and social networking sites with stolen photographs (e.g., attractive models, army officers) and a made-up identity. They develop an online relationship with the victim off the site, “grooming” the victim (developing a hyperpersonal relationship with the victim) until they feel that the victim is ready to part with their money.7,8 This scam has been found to cause a “double hit”—a financial loss and the loss of a relationship. Whitty and Buchanan9 found that for some victims the loss of the relationship was more upsetting than their financial losses, with some victims describing their loss as the equivalent of experiencing a death of a loved one.

By studying MMF victimology we might be able to develop more effective methods to detect and prevent this type of crime. For example, we could learn more about who to target when conducting awareness campaigns or the most appropriate interventions according to personality type. This article reports empirical research examining the psychological characteristics of victims of romance scams. It is hoped that the findings will be applied in the crime prevention of romance scam and MMF in general.

Typology of Victims

There has been some speculation about the typology of fraud victims. Much of the work has focused on personal fraud, in general. For example, Titus and Gover10 believe that victims of fraud are more likely to be cooperative, greedy, gullible/uncritical, careless, susceptible to flattery, easily intimidated, risk takers, generous, hold respect for...
authority, and are good citizens. Fischer et al.\textsuperscript{11} found in their survey research that scam victims or near scam victims were more affected by the high values offered in scams and displayed a high degree of trust in the scammers. They also found some support for the notion that some kind of enduring personality trait might increase susceptibility to persuasion. Similarly, a susceptibility to persuasion scale has been developed with the intention to predict likelihood of becoming scammed.\textsuperscript{12,13} This scale includes the following items: premeditation, consistency, sensation seeking, self-control, social influence, similarity, risk preferences, attitudes toward advertising, need for cognition, and uniqueness. The current work, therefore, suggests some merit in considering personal dispositions might predict likelihood of becoming scammed.

\textbf{Romance Scam Typology}

Some researchers have focused on specific types of MMFs. Lee and Soberon-Ferr\textsuperscript{e,14} for example, measured individuals’ vulnerability to consumer fraud and found that people with higher vulnerability scores tended to be older, poorer, less educated and single. Buchanan and Whitty\textsuperscript{15} found in their research on online dating romance scams that individuals with a higher tendency toward idealization of romantic partners were more likely to be scammed. Given the number of iterations of scams it may well be that some individuals are more susceptible to different types of fraud and so studying them separately might have some merit. This study builds upon the work on romance scam to investigate further the types of individuals who are more vulnerable to becoming financial victims of this crime.

\textbf{Current Study}

This study was interested in whether romance scam victims differ in personal characteristics compared with individuals who have not been scammed. Drawing from the previous literature on scamming compliance behavior and the research on behaviors related to certain personality dispositions, the below hypotheses were formulated for romance scam victims compared with nonvictims.

\textbf{Age}

There have been mixed findings on age differences and vulnerability to scams. Some suggest that older adults are more vulnerable to MMF,\textsuperscript{16,17} while others have found that older individuals are victimized to a similar extent to those in their midlife,\textsuperscript{18} those in their midlife are more likely to become victims compared to older and younger people.\textsuperscript{1,2} With regards to romance scams, it is often reported by authorities that victims are more likely to be middle aged.\textsuperscript{7,8} The first hypothesis therefore is that middle-aged people will be more likely than younger people or older people to be victims of romance scams (H1) compared with those who have not become victims of romance scams.

\textbf{Gender}

Although little is known about whether gender predicts likelihood of becoming scammed, in a study on the number of reports of being scammed in an Australian population it has been found that women are more likely to be scammed compared to men.\textsuperscript{7} It is therefore hypothesized that women are more likely to be victims of romance scams (H2) compared with those who have not become victims of romance scams.

\textbf{Education}

There is little known about whether more or less educated people are more likely to be scammed. Lee and Soberon-Ferr\textsuperscript{e,14} found that less educated individuals were more likely to fall victim to consumer fraud. Being well educated might therefore be a protective factor against becoming defrauded by MMF. It is hypothesized that less educated people are more likely to be a victim of romance scam (H3) compared with those who have not become victims of romance scam.

\textbf{Knowledge about cybersecurity}

Research has found a clear distinction between experts and nonexperts regarding basic security behaviors, such as patching and updating software.\textsuperscript{19} Given that most romance scams involve the Internet, it is hypothesized that people who believe they know little about cybersecurity are more likely to be victims of romance scams (H4) compared with those who have not become victims of romance scams.

\textbf{Impulsivity}

Much of the literature that theorizes about why individuals become defrauded highlights the use of the scarcity tactic employed by criminals and their push for urgency to respond to a crisis.\textsuperscript{13} In romance scams, victims are often asked to urgently send money in an unexpected crisis.\textsuperscript{7,8} Modic and his colleagues have also suggested that individuals who are more likely to be sensation seeking, a form of impulsivity, are more likely to become scammed.\textsuperscript{12,13} It is hypothesized that individuals who score high on impulsivity are more likely to be victims of romance scams (H5) compared with those who have not become victims of romance scams.

\textbf{Locus of control}

Locus of control refers to an individual’s belief about control over his/her environment. People who have an internal locus of control have the conviction that events are contingent upon one’s behavior. Those with an external locus of control believe that events do not depend upon their actions, but rather upon luck, chance, or fate. If individuals believe that they have little control over events, they might be more likely to comply with a scammer. It is hypothesized that individuals who score high on external locus of control are more likely to be victims of romance scams (H6) compared with those who have not become victims of romance scams.

\textbf{Trust in others (gullibility)}

It is a popularly held belief in the media that scam victims are more likely to be gullible individuals.\textsuperscript{20} Titus and Gover’s\textsuperscript{10} review of the literature also found some evidence that victims of fraud are more trusting individuals. In Whitty’s\textsuperscript{7,8} research on romance scam, victims described themselves as naïve and trusting. It is hypothesized that individuals who score high on trust in others are more likely to be victims of romance scams (H7) compared with those who have not become victims of romance scams.

\textbf{Trustworthy individual}

Titus and Gover\textsuperscript{10} in their review of the literature of victims of scams found that victims tended to be “good
citizens.” Fischer et al. found that scam victims and/or near scam victims displayed a high degree of trust. It is hypothesized that individuals who perceive themselves to be trustworthy people are more likely to be victims of romance scams (H8) compared with those who have not become victims of romance scams.

Kind

Little is known about whether the victims of MMF are more kind compared with nonvictims; however, given that many of the romance scam narratives involve a victim helping out another it is hypothesized that individuals who score high on a survey measuring kindness are more likely to be victims of romance scams (H9) compared with those who have not become victims of romance scams.

Greed

Some theorists have argued that victims of fraud tend to be greedy people.10 These theorists reason that the motivation for becoming involved in a scam is for self-gain, to make a large personal profit in a short amount of time. Given that many romance scam victims are often promised wealth as well as the perfect relationship it is hypothesized that individuals who score high on a survey measuring greed are more likely to be victims of romance scams (H10) compared with those who have not become victims of romance scams.

Addictive disposition

There has been some theorizing that individuals who get “caught up in a scam” do so because they are addicted to the scam itself and the visceral response they experience from the involvement in the scam. This was essentially identified in Whitty’s7,8 research on romance scam, when she argued that victims are similar to gamblers—both groups, she argued, are drawn into the addictive experience perceiving each stage as a “near win”.7,8 It is therefore hypothesized that individuals who score high on an addictive disposition scale are more likely to be victims of romance scams (H11) compared with those who have not become victims of romance scams.

Materials

Participants

Overall, 12,060 participants who resided in the United Kingdom were recruited from a “Qualtrics” online panel. Of these individuals, 11,780 participants remained in the final sample. In this final sample 10,723 participants were not victims, 728 were one-off victims, and 329 were repeat victims. Of this sample, 200 participants had been scammed by the romance scam. Given that victims of scam may share some of the same dispositions as romance scam victims these participants were taken out of the final analysis.

Discussion

Although there is a paucity of research on the victimology of MMF victims, in line with previous research and thinking, this study supports the notion that specific psychological characteristics may predict the likelihood of becoming a victim of romance scams. The work adds to the previous literature and suggests there are other variables besides romantic beliefs15 that significantly predict likelihood of being
Table 1. Descriptive Statistics for Predictor Variables for Victimhood Versus Not Scammed

| Variable                      | Romance scam victims | Not scammed |
|-------------------------------|----------------------|-------------|
|                               | M  | SD  | M  | SD  |
| Education                     | 4.08| 1.13| 3.12| 1.07|
| Knowledgeable cybersecurity    | 2.13| 0.94| 2.51| 0.93|
| Lack of premeditation         | 19.15| 5.99| 21.22| 4.63|
| Urgency                       | 35.90| 7.48| 27.91| 6.97|
| Sensation seeking             | 36.55| 8.83| 26.97| 7.60|
| Lack of perseverance          | 19.08| 4.32| 19.55| 4.51|
| Locus of control              | 12.42| 3.03| 12.73| 4.13|
| Trust in others               | 34.32| 5.59| 30.03| 6.12|
| Trustworthiness               | 17.37| 6.69| 19.39| 5.08|
| Kindness                      | 37.95| 5.59| 39.64| 5.96|
| Greed                         | 24.86| 5.94| 20.85| 6.27|
| Addiction–disposition         | 18.57| 4.96| 13.60| 4.24|

SD, standard deviation.

Traits that measured impulsivity and lack of self-control, as hypothesised, predicted victimhood. Those tricked by romance scams are asked to comply quickly to the criminals’ requests, which perhaps explains why victims are more likely to score high on the impulsivity subscale of urgency. Moreover, victims are told elaborate and fantastical stories, which might explain why they score higher on sensation seeking compared with nonvictims. Victims are also more likely to score high on addiction characteristics compared with nonvictims, suggesting they find it difficult to pull away from the scam once introduced to the narrative. This is also in line with previous research that has found that victims find it difficult to believe they have been scammed even when told by law enforcement.

Contrary to what was predicted, those who were more highly educated were also more vulnerable to becoming romance scam victims. This result contradicts popular belief that “stupid” people fall for scams. It may be that better educated people are more likely to use dating sites; however, this finding also suggests that being well educated does not necessarily protect individuals from becoming scammed. Fisher, Lea, and Evans have suggested that overconfidence can cause individuals to become more vulnerable to scams and it may well be that well-educated people are more confident that they can spot a romance scam. These speculations require future research and are important to consider when developing prevention programs.

The finding that less kind individuals were more likely to be scammed by romance scams was less easy to explain. Perhaps, less kind individuals have fewer networks to help them check profiles or perhaps they seek out more harmful relationships. Kindness might also be a more transitory disposition. At the time of the scam, researchers have found that criminals isolate the victim from loved ones and push them to focus their time and resources on the fictitious relationship. They have also found that it is difficult for victims to rebuild their social networks after the scam has taken place. This might explain why victims of romance scams are less likely to rate highly items such as: “going out of their way to

Table 2. Binary Logistic Regression: Predictors of Romance Scam Victimhood Versus Not Scammed

| Variable                      | β   | SE  | Wald      | df | p    | Exp β |
|-------------------------------|-----|-----|-----------|----|------|-------|
| Age                           | -0.679| 0.269| 19.962***| 2 | 0.000| 0.507|
| Age (1)                       | -0.679| 0.269| 6.343*   | 1 | 0.012| 0.507|
| Age (2)                       | 0.227| 0.230| 0.978    | 1 | 0.323| 1.255|
| Gender                        | 0.736| 0.184| 16.011***| 1 | 0.000| 2.088|
| Education                     | 0.590| 0.079| 55.486***| 1 | 0.000| 1.395|
| Knowledgeable cybersecurity    | 0.042| 0.095| 0.198    | 1 | 0.656| 1.043|
| Lack of premeditation         | -0.031| 0.021| 2.266    | 1 | 0.132| 0.969|
| Urgency                       | 0.071| 0.015| 21.647***| 1 | 0.000| 1.074|
| Sensation seeking             | 0.089| 0.013| 50.374***| 1 | 0.000| 1.074|
| Lack of perseverance          | 0.022| 0.024| 0.845    | 1 | 0.358| 1.022|
| Locus of control              | -0.036| 0.024| 2.342    | 1 | 0.126| 0.964|
| Trust in others               | 0.020| 0.018| 1.176    | 1 | 0.278| 1.020|
| Trustworthiness               | -0.512| 0.211| 5.908*   | 1 | 0.015| 0.999|
| Kindness                      | -0.043| 0.016| 7.301**  | 1 | 0.007| 0.958|
| Greed                         | 0.013| 0.014| 0.890    | 1 | 0.346| 1.013|
| Addiction–disposition         | 0.170| 0.025| 47.489***| 1 | 0.000| 1.185|
| Constant                      | -11.644| 1.260| 85.343***| 1 | 0.000| 0.000|

* p < 0.05; ** p < 0.01; *** p < 0.001.
cheer up people who appear down,’’ ‘‘helping out a neighbor in the last month,’’ ‘‘getting excited by others good fortunes,’’ or ‘‘calling their friends when they are ill.’’

Overall, the findings reported here provide some new and important insights into the sorts of people who are scammed by romance scams. The findings have important implications for prevention and awareness raising programs. Dating sites and SNSs might draw from the information here to target certain types of people to make them aware of romance scams. Moreover, given that romance scam victims scored significantly higher on the addiction scale, programs that could be developed to prevent revictimization of romance scams might draw from programs that have been developed to prevent other addictive problems—such as alcoholics or gamblers anonymous.

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