Performance Attributions: A Cross Cultural Study Comparing Singapore, Japan and US Companies

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Abstract

Attributions shape people's realities, the explanations imposing cause-effect structures on our chaotic world. Not confined to the individual, publicized attributions further influence others' attribution formulation and subsequent decisions. Attributions in corporate discretionary narrative disclosures, persuasive tools to steer investor buy-sell decisions are significant economically. Focusing on such performance attributions, investigating cross-cultural attribution patterns and Singapore's cultural inclination, we study performance-attribution statements from company accounting narratives of three nations (United States of America, Japan and Singapore). Self-enhancing/protecting tendencies, though found to exist in all the countries studied, seem more predominant in Asian than Western society, contrary to previous research. Singapore is also found to be more culturally similar to Japan.

Keywords: Performance Attribution, Singapore, USA, Japan, Cross Cultural

Introduction

Attribution theory is one about perceptions, of how people construct and understand their world. Attribution formulation is an activity carried out countless times each day, either purposefully or subconsciously, by everybody. Attributions regarding phenomenon of all sorts not only pacify one's curiosity and emotions, supplement one's knowledge archive to guide future behavior, but are further deployed to steer others' attribution formulation and subsequent actions. Its omnipresence in rational thought and social interaction warrants its received attention.

While Heider (1958) initiated attribution research with his basic conceptions, latter scholars supplement it by: deriving relationships between certain information types and resulting attributions; such structured relationships' applicability in diverse situations; systematic differences in attribution behavior between individuals of certain characteristics (e.g. country of residence); differing attention for each information type; and possible underlying purposes of formulating attributions. For example, Jones and Davis's (1965) Theory of Correspondence Inference, Kelley's (1967)

ANOVA model, Kruglanski's (1980) Lay Epistemology and the Expectancy-Covariance model identified properties of a phenomenon (e.g. observed behavior) that are considered in attribution formulations. But Kelley, recognizing his model's reduced applicability under time constraints and multiple feasible attributions' coexistence, subsequently derived the Causal Schemata and Discounting & Augmentation Tendency

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theory respectively. Daryl Bem's (1967) Theory for Self-perception advocated an additional use for attributions: to discover individuals' own internal state through self-observations. Furthermore, Actor-Observer Differences, Fundamental Attribution Error, Self-serving tendency and Self-presentation Theory (with both self-enhancing/protecting and counter-defensive attribution approaches) noted systematic attribution differences under various circumstances. These are better understood considering attributions' informational and identity-protection/enhancement functions. Other differences commonly studied involve those between individuals of different nationalities, who possess different sets of cultural values.

Information and the Stock Exchange

The stock exchange is a medium for allocating limited capital resources of society to prospective ventures, achieving greater wealth generation for all. But severe economic losses, unemployment, and social instability brought about by recent collapse of multinational corporations cast doubt upon its effectiveness. The problem lies in unavoidable information asymmetry between company management and investors, and the resulting agency problem.

To reduce this information disparity, governments and regulatory bodies worldwide set policies and procedures to boost resource allocation effectiveness and lower company costs-of-capital. Examples include requirements for public disclosure of company performance, supporting documents, and auditor reports. Such discretionary narrative disclosures like Letters to Stakeholders, Operational Review, and Management Discussions not only present accounts of past company activities, but also attributions for performance. These fulfill the dual purposes of aiding the public's investment decisions and providing a public relations tool for nurturing a certain corporate image (Hopwood, 1996). Annual reports are reputed to be "undisguised advertisement" or "platforms for preaching [management's] philosophies and [for] touting themselves and their companies" (Ingram & Frazier. 1983, pp. 49). Accounting narratives enclosed are viewed as "carefully crafted public relations documents with little, if any, substantive content" (McConnell, Haslem, & Gibson, 1986). Despite such unflattering comments, discretionary narrative disclosures are vital to skilled users like financial analysts (Schipper 1991). Rogers and Grant (1997), Abrahamson and Amir (1996), and Bryan (1997) also verified narratives' informational content and their contribution to company assessment.

Disclosures and attributions' public relation purpose led to the logical deduction that subconscious and/or intentional biases may manifest themselves in narratives, with management attributing events to their own favor as a form of impression management. Self-enhancing/protecting tendency is often noticed in the context of explaining corporate performance. Investors, lacking sufficient expertise and motivation to fully comprehend complex financial statements, will overrely on accounting narratives for evaluations. Thus inaccurate designed performance attributions distort investors' perceptions and result in inefficient capital allocation.

Considering the number of individuals involved, such performance attributions, publicly disclosed in accounting narratives are more influential than others. Prime ingredients in stock exchanges' capital allocation function, company disclosures, and enclosed performance attributions influence investors' buy-sell choices. Attribution's role in society economic health is undeniable. Our research thus focuses on such "influential" performance attributions of company management. With evidence of cross-cultural attribution behavior differences as foundation, comparisons of performance attribution behavior between companies of three countries (United States of America, Japan and Singapore) are conducted, on basis of the performance's favorableness and corresponding attributions' internal/external inclinations. Verifying self-enhancing/protecting tendencies in, and comparing relative utilization of self-enhancing/protecting and counterdefensive attribution approaches between subject countries, is facilitated using calculated mean "attribution scores" for two performance situations (favorable/unfavorable). Besides contributing to the global knowledge archive, sensitizing investors to attribution biases through this study helps restore disclosures' objectivity by facilitating individual evaluation adjustments. Another objective involves inferring from research results, Singapore's current position on the cultural spectrum - whether she is culturally similar to United States of America (U.S.A) or Japan.

Literature Review

To facilitate appreciation of attribution theories and acknowledge inherent complexities in accurate attribution prediction, an exhaustive literature review of prominent attribution studies was conducted. Diverse Attribution Theories generally focus on what information about the stimuli isconsidered in the attribution process and how it impacts resulting attributions. This knowledge serves an important pre-requisite to conceptualizing how attributions and bias are formed. Attribution Biases acknowledges observed attribution differences and provides rationale for our scope of research. Attribution's Underlying Functions facilitates research data's interpretation. Cross-cultural Perceptual and Attribution Deviation provide justification for our comparison study between three nations, and finally build up to Hypothesis Formulation.

Attribution Theory is preoccupied with developing comprehensive accounts of how people perceive and explain everyday actions of self and other (Jones et al., 1971; Kelley, 1967; Ross, 1977). Its importance resides in the potential influence that one's prior judgment of a situation can exert upon its future development. Simply put, perceived causes determine subsequent corrective actions. Much research focused on deriving factors influencing attributions (e.g. different information types surrounding stimuli, perceiver's mental framework, functions served by attributions in each situation, etc.) and their relationships with attributions formulated. Currently, no unified theory exists to integrate these diverse studies, with each applicable under different circumstances.

Cultural Differences in Attribution

Individuals residing in different countries are known to possess different values and life outlooks, and this is manifested in their everyday behaviors including attributions. This section presents dimensions from which we can review such cross-cultural deviations and provides rationale for our cross-cultural study of corporate attribution behaviors.

According to Krull (1999) the attribution process can be separated into two distinct cognitive operations: the sub-processes of dispositional inference and situational correction or, situational inference and dispositional correction.

Based upon the dispositionism tendency of Westerners and situationism tendency of Asians, there are three plausible models to explain cultural differences:

Firstly, Asians may follow a sequence of initial resource-efficient situational inference followed by effortful dispositional correction while Westerners do the opposite, dispositional inference and then situational correction. The sequence in considering the two dimensions, dispositions and context, set different initial opinions for subsequent correction and thus result in attributional differences.

Secondly, effort allocated to each sub-process and sensitivity to dispositional and contextual information and cues may differ across cultures. Asians may tend to make more situational corrections than Westerners, assuming insignificant differences in dispositional inferences, thus causing their attributions to deviate at the correction stage. Choi and Markus (1998), Miller (1984), and Morris and Peng (1994) support this explanation. Asians' tendency of making more situational corrections may be partially due to better utilization of consensus information (Cha and Nam, 1985). Lastly, Asians may be comparatively weaker at the initial disposition inference stage, assuming little differences in situational corrections. Miller (1984) discovered cross-cultural differences in both dispositional and situational attributions.

While the literature discussing the abovementioned differences has been vast, the above three explanations are not directly tested and there are no definite answers to the origin of cross-cultural attribution differences.

The above set of explanations seems to imply that cross-cultural variances in attribution process and sensitivity to different information types are the keys to explaining attribution differences, assuming that the informational function is in play. But the motivational function may co-exist, and with different constructs of self and social identity, play a role in attribution differences. For the collectivist society of Asians, positive feelings about the self are not only derived from task accomplishment but also from been able to: belong to the group, fit in, occupy one's proper place, engage in appropriate action, promote others'/group's goals, and maintain harmony (Markus & Kitayama, 1991, 1994). This is called "collective self-esteem" (Crocker & Luhtanen 1990; Kagitcibasi, 1997). Seemingly self-deprecating attributions are actually formed in consideration of others. Specific efforts to not deny others' contribution to success and help others "save face" by not blaming them in failure help maintain harmony in relationships (Meijer & Semin 1998). According to Heine, Takata, and Lehman (2000), Japanese's focus on one's weaknesses can be due to the drive for continuous self-improvement. Hence, self-serving attributions may be perceived more negatively in Asian society than in Western culture (Markus & Kitayama 1991). Usage of the counter-defensive method of attribution may thus be more commonplace.

Hypothesis Formulation

The three countries targeted for study are United States of America, Japan, and Singapore. This choice is not without its reasons. Firstly and most importantly, The United States and Japan represents cultures clearly different on the individualism-collectivism spectrum. For most researchers of cross-cultural studies, culture has the broad definition of being the human-made component of environment (Herskovits, 1955), constituting both objective elements like cultural manifestation within artworks, architecture, and city designs, and subjective elements. The latter, termed the "group's characteristic way of perceiving its social environment" (Triandis, Malpass, & Davidson, 1972, p. 3), encompass shared values, beliefs, and behavioral norms (Thomas 1994) that is historically cultivated and transmitted through time. From this definition, culture, though accumulated through past behaviors, will determine future behavioral trends. Human beings, who created culture, are in turn constrained by the culture they have created (Segall, Dasen, Berry, & Poortinga 1999). Abundant past research identifies Americans as predominantly individualistic and the Japanese as collectivism-inclined.

Secondly, both nations are important economic entities of our global economy, considering their representation of companies, size of stock exchanges, and influence upon other nations. Gathering updated information about such influential countries is beneficial for planning and monitoring the global economy's progress.

Thirdly, the inclusion of Singapore is done in hope of providing information relevant in our local context rather than catering to major economic and cultural entities. Although some past research conducted found Singapore as a collectivist society (Hofstede, 1994; Hofstede & Bond, 1988), other work differs (Chew, 2000). Belief that national culture will manifest itself in management practices, and without past confirmative evidence, our study hopes to provide updated insights into Singaporeans' cultural inclinations and local companies' attribution tendencies. Singapore also represents a good blend of Asian and Western business culture, and study into its organizational culture will lend insights into the norms of other similar countries.

Since past research revealed that self-enhancing/protecting bias is common across cultures, our first hypothesis is to verify if this still holds true for our target nations: The United States, Japan, and Singapore.

H1: Self- enhancing/protecting bias is present in all countries being studied.

H1a: For Singapore companies, there will be a greater number of internal attributions for favorable outcome than unfavorable outcome.

H1b: For American companies, there will be a greater number of internal attributions for favorable outcome than unfavorable outcome.

H1c: For Japanese companies, there will be a greater number of internal attributions for favorable outcome than unfavorable outcome.

Upon verification of self-enhancing/protection bias in the three cultures, we proceed to compare the degree of bias between them. From past evidence, Asians tends to be more modest than Westerners. Hence, we would expect that:

H2: Self-enhancing/protecting bias is more pronounced for American than Japanese companies.

H2a: Americans will display more self-enhancing behavior than Japanese in explaining for favorable performances.

H2b: Americans will display more self-protecting behavior than Japanese in explaining for unfavorable performances.

With comparatively little studies investigating Singaporeans' attribution behavior, we would like to see where they stand relative to the Americans and Japanese. Considering Singapore's recent birth (and possibly weaker cultural foundations), and both Western and Asian influence (through human migration, foreign talent retention and business relationships), we can reasonably expect bias magnitudes to lie between the American and Japanese.

H3: Self-enhancing/protecting bias is more pronounced for American than Singapore companies.

H3a: Americans will display more self-enhancing behavior than Singaporeans in explaining for favorable performances.

H3b: Americans will display more self-protecting behavior than Singaporeans in explaining for unfavorable performances.

H4: Self-enhancing/protecting bias is more pronounced for Singapore than Japanese companies.

H4a: Singaporeans will display more self-enhancing behavior than Japanese in explaining for favorable performances.

H4b: Singaporeans will display more self-protecting behavior than Japanese in explaining for unfavorable performances

Methodology

Company Selection

Our study of attribution behavior requires selection of 200 companies' annual reports each from The United States, Japan and Singapore. Comprehensive listings of public companies are obtained from the target counties' major stock exchange: New York Stock Exchange, Tokyo Stock Exchange and Stock Exchange of Singapore. To reasonably ensure that companies are fair representatives of local culture, and further taking into account foreign company listings, companies included in sample populations should either be incorporated in, or have major operations or markets located within the targeted country. This is due to the deemed likelihood that corporate cultures of such companies should be closely similar to local culture due to constant interactions between company and her various stakeholders. Also, management staffs are likely to reside and operate within their company's primary market.

Selection will also be made from listed local companies less those involved in primary industries. This exclusion is due to perceived higher correlation between external environment and performance with such industries. Management may more likely perceive their business to be at nature's mercy, uncontrollable because of complex and uncontrollable relationships, and thus exert systematic bias upon such companies' attributions. They should be studied separately and the exclusion facilitates better focus on the type of attribution bias studies.

With sample populations determined, systematic sampling method is applied in company selection. From each selected company, Letters to Shareholders, Operations Review, Management Discussions, and other documents of qualitative performance explanation and elaboration are extracted from the annual report package and analyzed.

Selection of Performance-attribution Statements

To see how companies explain favorable and unfavorable performance, we attempt to draw from each company's documents: (1) a statement highlighting an instance of favorable performance, paired with attributions of its causes, and (2) a statement of an instance of unfavorable performance with attributions of its causes. There are thus two sets of samples from each country, with the unit of analysis being the favorable/unfavorable performance statement paired with its explanations. Selection of only one sample unit of each performance type from each company is done to prevent unnecessary distortions. Large companies, with numerous subsidiaries operating in different industries and environments, will logically have more to report and explain than comparatively smaller companies. Gathering all qualified performance-attribution statements from each annual report inevitably results in undesired higher representation of large companies' culture within the sample and distorts research findings. This method's downside is the necessity to choose from various acceptable performance-attribution statements the unit to be included in our data sets.

Discretion in this choice introduces undesired subjectivity and can potentially distort research findings. Implementing the objective selection method of numbering each qualified performance-attribution statements and drawing lots to determine the selected unit will resolve this problem.

Other principles and rules also guide the selection process. Firstly, the performance quoted should be related to past or present organizational outcomes.

Secondly, whether the outcome is deemed favorable or not should be from the company's perspective, so as to ensure accurate categorizations. This can be derived from descriptive words used in presenting the outcome. Phrases like "improvement from previous years", "noteworthy achievement of", "impressive", "commendable" and others provide insights into how management perceives certain outcomes. This step is required because results of performance evaluation forms the topic of attributions, and company evaluation of performance is dependent not solely on accounting numbers but also on comparisons with previously set objectives, industry averages, and past performance. With differential importance allocated to each factor, management's language usage should be more accurate in deriving their perceptions.

Thirdly, identification of the specific attributions for a chosen performance statement can be facilitated by connective words or phrases, which indicate the logical link between performance and explanation statements. Phrases like "because of", "thus", "hence", resulting in/from, "due to", "caused/influenced by", "can be ascribed/attributed to", "arising from" and "contributed/led to" are examples of such connective phrases. However, an attribution statement can still be associated with the performance statement without presence of such connective phrases, as long as a cause-effect relationship between performance and attribution statements can be derived from the text. For example, the performance statement can be about improvements in a certain business ratio or variable, while the attribution statement later discusses factors contributing to this variable's improvement. The focus on the same business variable thus serves as the link between the two statements rather than the connective phrases.

Several guidelines to sample unit selection also include proximity between the performance and attribution statements. For example, the attribution statement should be within a few statements from the performance statement. From the communication perspective, this is logical because management, in their communications, will follow a systematic fashion of presenting and fully explaining an event before they proceed to the next topic. The further apart the two statements are, lower the probability that they are related to the same specific incident. Drawing from the above argument, both performance and attribution statements should appear within the same paragraph. However, it should be noted that such supplementary points only serve to assist in identification of the qualified sample units and can be ignored if other evidence clearly indicate the performance-attribution connection. It shall also be cautioned that it is not always possible to find sample units for both favorable and unfavorable performances within each company's accounting narrative.

Coding of Sample Units

To enable running of several statistical tests on collected data, each unit of analysis (performanceattribution statements) is coded along the following dimensions:

Firstly, the sample unit is coded by the nationality of the company from which it is derived. For example, sample units drawn from an American company's annual report are coded 1, while those from Japanese and Singaporean companies are coded 2 and 3 respectively.

Secondly, irrespective of country, each unit is coded by their performance direction. Those of favorable performances are coded 1 while those of unfavorable performance are coded 2.

Lastly, coding of how management attributes performance requires elaboration. The various contributing factors to a performance can be distinguished as either internal or external. Internal attributions are those arising from within the firm, properties possessed and relatively controllable by the company herself. For example, "management team's creativity level", "employee expertise and motivation", "company product/promotion mix", "organization structure", "process coordination" and "company goals and strategies" are internal factors. On the contrary, external attributions are uncontrollable factors arising from general or industry environment and imposed upon the company. The PEST framework is a good way of looking at such environmental forces. Examples include "political instability", "war", "terrorism", "economic recession", "sudden consumer perception change", "relocation of business partners", "SARS" and "Bird Flu epidemic". A problem that naturally surfaced from above definitions is the determination of company boundaries. Complex business arrangements can make this boundary fuzzy and for our purpose, the company includes its subsidiaries and associates over which it can exert significant influence in terms of decision making.

In explaining company performance, management may present more than one feasible cause in their attributions and produces a possible mix of internal and external attributions, which makes categorization of attributions as a whole to either internal or external categories difficult. A way to overcome this difficulty is to assign a score of 1 to each internal attribution and -1 to each ex-

ternal attribution quoted. The overall score for the sample unit is then calculated and used to indicate how internally or externally the companies attribute their performances. A large positive number signifies that more internal than external attributions are quoted, negative numbers indicate that the opposite is true and a score close to zero indicates that the number of internal attributions is comparable to external attributions. This attribution scoring system is used to denote both the direction and magnitude of attribution bias.

Statistical Tests Applied

Subsequent to data collection, some tests are conducted. Within each country, independentsample T-test is used to compare the mean attribution scores between favorable and unfavorable performance-attribution samples. This is done to verify self-enhancing/protecting bias's existence in the three cultures being investigated.

Also, One-way ANOVA followed by multiple-comparison tests are used to compare mean attribution scores of favorable and unfavorable performance-attribution samples between the countries. This can determine their differences in degree of bias for both performance situations.

Template for Interpretation of Test Results

Before proceeding to interpret and discuss our research findings, it is important to lay out feasible explanations for possible data characteristics. This activity compels us to review our understandings of attribution theory and ponder about how they are applied to understanding research findings.

Positive mean attribution scores for favorable performanceattribution samples

Positive scores are generally expected of attributions for favorable performances. According to self-presentation bias, management is driven by the motivational function of attributions, trying to inflate either or both of their self- and social identities through communication to stakeholders. Greater utilization of the self-enhancing attribution approach results in greater attributions of firm success to internal than to external factors.

On the other hand, inclination towards internal attributions may also originate from the informational function of attributions. Management's constant interaction with other company members in process of their work may unavoidably expose them to more internal than external factors, making them more salient in their minds. Also, management may be subconsciously more sensitive to dispositional information due to dispositionism tendencies and thus more able to derive internal causes for performances. Furthermore, the evaluation sequence of conducting dispositional inference before situational correction also explains for the positive tendency. Finally, recent years are plagued by distressing events, like the September 11th incident, Iraq war, economic downturns, Bali bombings, and SARS and Bird Flu epidemics. Such inhibitory factors' presence may make the facilitative internal factor more feasible an explanation for company success.

Positive mean attribution scores for unfavorable performanceattribution samples

Positive scores obtained for unfavorable performance-attribution samples can still be explained from both motivational and informational dimensions. From the motivational perspective, greater usage of internal attributions to justify performance may not necessarily deflate management's self- and social identities. How management evaluates their performance in private is unobservable and unimportant here. The mean positive score just indicates the utilization of the other attribution method illustrated in self-presentation bias: the counter-defensive approach. This method

of shouldering the blame for failures and denying credit for success can elevate their social identities by portraying them as humble, modest, and responsible individuals.

From the informational function perspective, management's greater sensitivity to dispositional information due to the dispositionism tendency, or the habit of conducting dispositional inference before situational correction can justify this score.

Negative mean attribution scores for favorable performanceattribution samples

The motivation function explanation for mean negative score is similar to the one used in explaining positive scores for unfavorable performance-attribution samples. Again, usage of counterdefensive method in denying credit for success and attributing it to others boost management's social identities by portraying them as modest.

From the informational function perspective, mean negative score may be associated with greater salience of external factors, management's greater sensitivity to contextual information due to situationism tendency, or the evaluation sequence of situational inference before dispositional correction.

Negative mean attribution scores for unfavorable performanceattribution samples

Attributing unfavorable performances to external factors is another tendency predicted by selfpresentation bias. Self-enhancing/protecting approach makes the management seemingly less accountable for the company's failure and protects their image of competence. The informational explanation of negative scores for unfavorable performance attributions is the same as that mentioned above for favorable performance with negative attribution score.

Results

Greater positive magnitudes in mean attribution scores for favorable performance signify more self-enhancing tendencies, while greater negative magnitudes for unfavorable performance signify more self-protecting tendencies. With the above framework in place, we now look at the obtained data along the within-country and between-country dimensions. As a prerequisite to assessing latter hypothesis, Hypothesis 1 must be supported and self-enhancing/protecting bias should be present in all three countries. Independent-sample t-tests using samples of favorable and unfavorable performance-attribution statements within each country showed that the mean scores for both situations are statistically different and in opposite polarities, positive and negative for favorable and unfavorable performance respectively (Refer to Tables 2.1, 3.1 and 4.1 in the Appendix). t-values for the three countries' samples are: U.S.A = 13.033, Japan = 17.372, Singapore = 17.065, with all p-values < 0.001. (Refer to Tables 2.2, 3.2 and 4.2 in the Appendix.) This conforms to the self-enhancing/protecting method of self-presentation bias, which generally predominates over the counter-defensive method. Thus all three sub-hypothesis (H1a, H1b and H1c) of Hypothesis 1 are supported. Before continuing, it must be clarified that both attribution methods co-exist and the question lies with different usage degree of each approach within different contexts.

Next, comparison of mean attribution scores between cultures involves a two-step process. Firstly, one-way ANOVA is utilized to determine whether mean scores (for each performance situation) between cultures differs. If verified that not all mean scores are equal, multiplecomparison tests are run to analyze the exact relationships between them. Applying this to favorable performance-attribution samples, not all mean attribution scores from the three countries are equal, with F-value = 3.133 and p-value = 0.044 (Refer to Table 5.2 in the Appendix). From multiple-comparison test, Americans are clearly less self-enhancing than Japanese in their attributions, with p-value = 0.035 (Refer to Table 5.3 in the Appendix). Attribution scores for Japanese = 1.2632 while Americans = 0.9142 only. (Refer to Table 5.1 in the Appendix) Thus Hypothesis 2a is unsupported. Furthermore, Americans and Singaporeans (with attribution score = 1.0783) are proved to be similar in attributing for favorable performances, with p-value = 0.494. Hypothesis 3a is also unsupported. This is the same with Hypothesis 4a, due to similar attribution tendencies between Japanese and Singaporeans, with p-value = 0.352.

For unfavorable performance-attribution samples, not all mean attribution scores are equal, with F-value = 5.148 and p-value = 0.006 (Refer to Table 5.2 in the Appendix). Americans are distinctively less self-protecting than Japanese in attributing for unfavorable performances, with p-value = 0.019 (Refer to Table 5.3 in the Appendix). Attribution scores for Japanese = -1.0814 while Americans = -0.7333 only. Hence, Hypothesis 2b is unsupported. Americans are also different from Singaporean (with attribution score = -1.1234) in this aspect, with p-value = 0.009. Hypothesis 3b is also unsupported. This is also the verdict for Hypothesis 4b, with similar Japanese and Singaporeans' unfavorable performance attribution tendencies, of p-value = 0.935.

Hypothesis No.	Proposition	Supported?
1a	Self- enhancing/protecting bias present in Singapore	Yes
1b	Self- enhancing/protecting bias present in U.S.A	Yes
1c	Self- enhancing/protecting bias present in Japan	Yes
2a	U.S.A more self-enhancing than Japan	No
2b	U.S.A more self-protecting than Japan	No
3a	U.S.A more self-enhancing than Singapore	No
3b	U.S.A more self-protecting than Singapore	No
4a	Singapore more self-enhancing than Japan	No
4b	Singapore more self-protecting than Japan	No

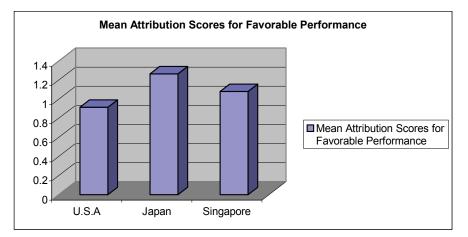


Figure 1: Mean Attribution Scores for Favorable Performance

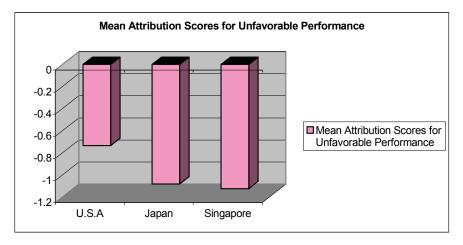


Figure 2: Mean Attribution Scores for Unfavorable Performance

Discussion

From statistical tests conducted, it is clear that Americans are significantly less selfenhancing/protecting than Japanese and possessing similar self-enhancing but less self-protecting tendencies compared to Singaporeans in performance attribution. Singaporeans and Japanese are similar in self-enhancing/protecting tendencies (See Table 1, Figures 1 and 2). Plausible explanations (or attributions) for such results are as below:

Americans' Weaker Self-enhancing/protecting Bias

Viewing the mean score magnitudes of both performance types for concerned countries, Americans' comparatively lower utilization of self-enhancing/protecting bias runs contrary to previous studies which conclude that self-enhancing/protecting bias should be more predominant in Americans while Japanese are inclined towards counter-defensive approach. Explanations for this are:

Globalization

Regarding this unexpected outcome, it can be reasoned that certain degrees of increased selfenhancing/protecting bias observed in Japan should be attributed to globalization. Rapid communication and transportation technologies evolution, maturing and stable international relations, and government encouragement of overseas studies and ventures accelerate the pace of crosscultural information and cultural value exchanges. These gradually erode cultural value differences between countries. Japan's general receptiveness of foreign ideas, evident since the Meiji Reformation and post World War II American influence, contributes to bringing her culturally closer to The United States.

Changing preference of various aspects of identity

Another relatively more specific way of interpreting the increased self-enhancing/protecting bias can be that the Japanese have changed in respect of which self-identity component they prefer to protect. While downplaying their part in success and shouldering blame for failures may protect or even enhance moral image, it is damaging to their image of competency; Although few, studies show that self-effacing or self-critical individuals are generally perceived as being less capable (Powers & Zuroff, 1988). Evidence of correlation between self-effacing behavior and negative competence evaluations are found even in societies that support norms for self-effacing behavior (Bond, Leung, & Wan, 1982).

Doubtful effectiveness of counter-defensive attribution method

Forsaking moral image for the image of being capable and intelligent may be the driver not only because of the change in preference but also the doubtful effectiveness of self-effacing behavior in boosting social appeal. This is evidenced by mixed research results. Self-effacing individuals are typically evaluated as less socially appealing by Westerners, who perceive them as falsely modest or obsequious (McNamara & Delamater 1985; Solomon, Brehony, Rothblum & Kelly 1985). In contrast, Asians evaluate such behaviors in a consistently positive manner, possibly grounded in the fact that such behavioral norms are well established within their cultural framework (Bond et al. 1982; Yoshida, Kojo, & Kaku, 1982).

Globalization not only expanded the operational scope of the company but also introduced cultural diversity in her stakeholders. This, coupled with cultural differences in evaluation of selfeffacing behavior, may force the Japanese to reinvent their impression management strategy to favor self-enhancing and protection approach.

Inherent flaws of methodology

While we can reasonably accept the possibility that Americans and Japanese will be eventually similar in their attribution bias patterns, the above mentioned reasons cannot sufficiently explain Japan's greater self-enhancing/protecting tendency than that of Americans. In turn, this may be attributed to inherent flaws in our methodology, for our attribution scoring system is inefficient in capturing the property of interest: Magnitude of attribution bias. Deriving such magnitudes from assigning different points to factors of the two attribution types (internal vs. external) may not yield a pure measure of attribution bias strength but also include in it complexities like language usage norms differences.

It can be explained that companies immersed in a predominantly Asian culture, with possible culturally determined differences in need for elaboration, will tend to explain their performances in greater depth than their Western counterparts. While management in American companies may feel it sufficient to generalize and highlight the most critical reasons, Asian management may feel more responsibility in breaking down these "main points" into specific events/actions to facilitate better reader understanding. In addition, Western management may group factors of the same theme together while Asians do not do so. For example, attributions to various cost-cutting techniques adopted can be merely presented as such or broken down into specific measures like: "salary cuts, production process rationalization, price re-negotiation with suppliers, etc." Though of similar meaning, point allocation in each instance is different and thus unnecessarily complicates research results.

Singapore's Similarity with Japan and Singapore's Cultural Inclination

Even accounting for the flaw in methodology, our study is still adequate for determining Singapore's position on the cultural spectrum. Evident from our research is the observation that while Americans possess different degrees of attribution tendencies from the Japanese and Singaporeans, Japanese and Singaporeans are very similar in this respect. Assuming that attribution patterns are reflections or estimates of underlying cultural norms, we can deduce that Singapore is closer to Japan on the cultural scale.

This is logical if we consider Singapore's location in Asia, which immerse her in its cultural atmosphere. Also, even with expatriate inflow, Asian races still comprise a high percentage of Singapore's population and still cling to traditional values.

Conclusion

Our decision to conduct our current study was sparked by reading about diverse attribution theories illustrating the selective information processing of attribution formulation in different situations, observed systematic attribution differences between individuals of certain characteristics; and possible rationales for formulating attributions and their differences. Our research on the performance attribution behavior of corporate management from U.S.A, Japan ,and Singapore required such knowledge foundations to conceptualize an individual's attribution process and facilitate explanations of research findings.

Based on Self-presentation Theory, we hypothesized the existence of self-enhancing/protecting bias in performance-attribution statements of all three countries, and also that Americans are more self-enhancing/protecting than Japanese, and Singaporeans' degree of bias lies between these two countries. Although research findings supported its presence in all subject countries, Americans are found to be less self-enhancing/protecting than Japanese and Singaporeans, the latter two being similar in their attribution tendencies.

Explanations for Americans' weakness of self-enhancing/protecting tendencies includes globalization, changing importance of various identity aspects, perceived doubtful effectiveness of counter-defensive attribution approach, and inherent flaws of methodology. Singapore and Japan's attribution tendency similarity implies cultural similarity and may be due to Singapore's location and population composition. While ambiguities over attributions' functions and management complacency reflected in attributions may open new routes for researchers, recent extraordinary events may jeopardize research findings' applicability in normal conditions.

The results from this exercise also permit an insight into the corporate behaviour of these companies, thereby allowing more discretion and care when interpreting reports from these countries.

Finally, our research's value lies not only in its contributions to global attribution knowledge archive and investigation of Singapore's place within the field, but it also serves as reference for future researchers embarking on the same path. While the methodology's flaws may serve as warnings and mistakes to be avoided, the way theories are used in explanations may expose latter researchers to new ideas and encourage them to view problems from multiple perspectives. Innovation and progress is often built upon the foundation of past errors. With this, we conclude our study on a hopeful note.

Appendix: Tables

Table 2: Independent-Sample T-Test within U.S. Samples

Table 2.1: Group Statistics

	PERFORMANCE	N	Mean	Std. Devia- tion	Std. Error Mean
ATTRIBUTION	1.00	140	.9143	1.01419	.08571
	2.00	120	7333	1.01859	.09298

Table 2.2: Independent-Samples T-Test

		for Equ	e's Test ality of ances	t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2- tailed)	Mean Differ- ence	Std. Error Difference	terval of	nfidence In- f the Differ- ence
									Lower	Upper
ATTRIBU- TION	Equal variances assumed	1.483	.224	13.033	258	.000	1.6476	.12642	1.39867	1.89657
	Equal variances not as- sumed			13.028	251.620	.000	1.6476	.12646	1.39856	1.89668

Table 3: Independent-Sample T-Test within Japanese Samples

Table 3.1: Group Statistics

	PERFORMANCE	N	Mean	Std. Deviation	Std. Error Mean
ATTRIBUTION	1.00	190	1.2632	1.47078	.10670
	2.00	172	-1.0814	1.08380	.08264

Table 3.2: Independent-Samples T-Test

		Levene's Equality and	of Vari-		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2- tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Differ- ence		
									Lower	Upper	
ATTRIBU- TION	Equal variances assumed	11.827	.001	17.117	360	.000	2.3446	.13697	2.07519	2.61391	
	Equal variances not as- sumed			17.372	346.103	.000	2.3446	.13496	2.07911	2.61000	

Table 4: Independent-Sample T-Test within Singaporean Samples

Table 4.1: Group Statistics

	PERFORMANCE	N	Mean	Std. Deviation	Std. Error Mean
ATTRIBUTION	1.00	166	1.0783	1.18573	.09203
	2.00	154	-1.1234	1.12214	.09042

		for Equ	e's Test ality of ances	t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2- tailed)	Mean Dif- ference	Std. Error Difference		nfidence of the Dif- ence
									Lower	Upper
ATTRIBU- TION	Equal variances assumed	4.452	.036	17.029	318	.000	2.2017	.12929	1.94732	2.45606
	Equal variances not as- sumed			17.065	317.87 1	.000	2.2017	.12902	1.94785	2.45553

Table 4.2: Independent-Samples T-Test

Table 5: One-way ANOVA for Favorable Performance-Attribution Samples

Table 5.1: Descriptive

ATTRIBUTION

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1.00	140	.9143	1.01419	.08571	.7448	1.0838	-2.00	3.00
2.00	190	1.2632	1.47078	.10670	1.0527	1.4736	-2.00	7.00
3.00	166	1.0783	1.18573	.09203	.8966	1.2600	-2.00	3.00
Total	496	1.1028	1.26631	.05686	.9911	1.2145	-2.00	7.00

Table 5.2: One-way ANOVA

ATTRIBUTION

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9.961	2	4.980	3.133	.044
Within Groups	783.795	493	1.590		
Total	793.756	495			

Table 5.3: Multiple Comparisons

Contrast Coefficients

Contrast	COUNTRY						
	1.00	2.00	3.00				
1	-1	1	0				
2	-1	0	1				
3	0	-1	1				

	(I) COUNTRY	(J) COUNTRY	Mean Differ- ence (I-J)	Std. Error	Sig.	95% Cor Interval	nfidence
						Lower Bound	Upper Bound
Tukey HSD	1.00	2.00	3489(*)	.14044	.035	6790	0187
		3.00	1640	.14468	.494	5042	.1761
	2.00	1.00	.3489(*)	.14044	.035	.0187	.6790
		3.00	.1848	.13396	.352	1301	.4998
	3.00	1.00	.1640	.14468	.494	1761	.5042
		2.00	1848	.13396	.352	4998	.1301
LSD	1.00	2.00	3489(*)	.14044	.013	6248	0729
		3.00	1640	.14468	.257	4483	.1202
	2.00	1.00	.3489(*)	.14044	.013	.0729	.6248
		3.00	.1848	.13396	.168	0784	.4480
	3.00	1.00	.1640	.14468	.257	1202	.4483
		2.00	1848	.13396	.168	4480	.0784
Bonferroni	1.00	2.00	3489(*)	.14044	.040	6862	0115
		3.00	1640	.14468	.772	5116	.1835
	2.00	1.00	.3489(*)	.14044	.040	.0115	.6862
		3.00	.1848	.13396	.505	1369	.5066
	3.00	1.00	.1640	.14468	.772	1835	.5116
		2.00	1848	.13396	.505	5066	.1369

Table 5.4: Dependent Variable: ATTRIBUTION

* The mean difference is significant at the .05 level.

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