Exploring Stereotype Threat in the Workplace with Sexual Minorities

2014

Elizabeth Sanz
University of Central Florida

Find similar works at: http://stars.library.ucf.edu/etd

University of Central Florida Libraries http://library.ucf.edu

Part of the Industrial and Organizational Psychology Commons

STARS Citation

http://stars.library.ucf.edu/etd/4646

This Doctoral Dissertation (Open Access) is brought to you for free and open access by STARS. It has been accepted for inclusion in Electronic Theses and Dissertations by an authorized administrator of STARS. For more information, please contact lee.dotson@ucf.edu.
© 2014 Elizabeth Jeanette Sanz
Sexual minorities are the target of numerous negative stereotypes in the United States, and are sometimes perceived as deviant and devalued as compared to heterosexuals. Stereotype threat, the anxiety of confirming a negative stereotype about oneself or one’s group, has been linked to perceived stress; and stress has been linked to low job satisfaction. Sexual minorities provide a unique test of stereotype threat theory because they may choose to conceal their minority status at work. Thus, this study also examines whether the visibility of the stigma is a necessary precursor to the experience of stereotype threat. Given the uniqueness of this population, a new and presumably more comprehensive model of stereotype threat (the Multi-Threat Framework) was also examined to ensure that stereotype threat was being adequately measured by examining every possible type of stereotype threat. Job satisfaction has been linked to many organizational outcomes such as poor performance, absenteeism, and turnover intentions; thus, it is important to examine predictors of low job satisfaction. Thus, the current study tested perceived stress as a mediator between stereotype threat and low job satisfaction in a sample of 150 sexual minorities who were employed full time. Internalized homophobia was predicted to moderate the relation between stereotype threat and perceived stress. Results indicated support for the moderated mediation model using only the traditional measure of stereotype threat; that is, stereotype threat predicted low job satisfaction through job stress. Moreover, at high levels of internalized homophobia, individuals reported high job stress, regardless of levels of experienced stereotype threat. However, those with low internalized homophobia reported high job stress only when stereotype threat was high. No differences were found with regards to degree of concealing, suggesting that the deleterious effects of high stereotype threat on job stress occurred regardless of whether participants were concealing. Additionally, the moderated mediation model was not
supported when measured using the new Multi-Threat Framework, suggesting that the measure may not be measuring the same construct as the traditional measure. Finally, results suggest that stereotype threat added significant incremental validity in predicting job dissatisfaction over perceived discrimination. These findings, in total, suggest that stereotype threat is a valuable construct for predicting negative work outcomes for stigmatized individuals. Implications for improving the work lives of sexual minorities were discussed.
ACKNOWLEDGMENTS

I feel as if I have more people to thank for my success in graduate school than there are stars in the sky. There are some people who come into your life and change it forever. For me, some of those people are Dr. Julia Fullick (aka, Ms. Miyagi), Dr. Chris Wiese (who shall henceforth be known in my life as Obiwan), and my amazing boyfriend, Dr. Nate Lust. Also, I definitely need to thank all my other mentors: Dr. Steve Fiore, for being an invaluable resource, mentor, and friend throughout grad school; Jennifer Ketcham, who is the best researcher that I have ever had the pleasure of working with; Dr. Carol Thornson, Dr. Carollaine Garcia, Dr. Luiz Xavier, Dr. Kizzy Parks, Dr. Christopher Butts, and Nicholas Smith for all being my support and inspiration over the years. Above all, I need to especially thank my loving parents who independently funded my data collection, read through literally hundreds of pages of dissertation drafts to provide feedback, and emotionally and financially supported me throughout this whole process; and my sister, Michele Sanz, for her help with proof-reading. To say that I could not have made this journey without ALL of you is an understatement. Words cannot express how much your friendship and guidance has meant to me over all of these years. A huge thanks to the McKnight Doctoral Fellowship, and Charles Jackson from the Florida Education Fund, for their amazing support and encouragement. I have been truly blessed! I would also like to thank my committee members, Dr. Dana Joseph, Dr. Kizzy Parks, and Dr. Charles Negy for all of their continued support and patience during the dissertation process, and for their invaluable feedback; and especially to my Dissertation Chair, Dr. Barbara Fritzsche, who took me under her wings. Thank you for taking me into the lab, and giving me a home! Lastly, I thank God for giving me the strength to make it through these storms, and bringing all of these people into my life. Thank you to all of those who have believed in me over the years!
TABLE OF CONTENTS

LIST OF FIGURES ....................................................................................................................... ix
LIST OF TABLES .......................................................................................................................... x
CHAPTER ONE - INTRODUCTION ............................................................................................ 1
CHAPTER TWO - LITERATURE REVIEW ................................................................................ 6
  Job satisfaction ............................................................................................................................ 7
  Stereotype Threat and Job Satisfaction ................................................................................... 8
  Job Stress and Job Satisfaction .............................................................................................. 13
  Stereotype Threat’s Relationship with Job Stress and Job Satisfaction ................................ 14
  Sexual Minorities ...................................................................................................................... 17
  Stereotypes of Sexual Minorities Applied to the Workplace ................................................ 17
  Concealing Sexual Orientation ............................................................................................ 23
  Sexual Minority Stereotype Threat and Its Impact on Stress and Job Satisfaction ............... 26
  Minority Stress Theory ........................................................................................................... 34
  Stereotype Threat versus Discrimination ................................................................................ 36
  Multi-Threat Framework ........................................................................................................... 39
CHAPTER THREE: METHOD ................................................................................................... 43
  Participants ................................................................................................................................ 43
  Procedure ................................................................................................................................... 45
  Measures .................................................................................................................................... 46
    Sexual Orientation ................................................................................................................... 46
    Demographic measures ......................................................................................................... 46
    Degree of Disclosure (Concealing Measure) ......................................................................... 46
    Stereotype Threat Measure .................................................................................................... 47
    Stereotype Threats (Multi-Threat Framework) .................................................................... 48
    Perceived Discrimination ....................................................................................................... 49
    Job Satisfaction ...................................................................................................................... 49
    Perceived Stress ..................................................................................................................... 50
LIST OF FIGURES

Figure 1: Moderated Mediation of Job Satisfaction with Stereotype Threat, Perceived Stress (Mediator), and Internalized Homophobia (Moderator). .............................................................. 63
Figure 2: Moderated Mediation of Job Satisfaction with Multi-Threat Framework, Perceived Stress (Mediator), and Internalized Homophobia (Moderator). ............................................ 72
Figure 3: Moderated Mediation .................................................................................................... 73
LIST OF TABLES

Table 1: Means and Standard Deviation for All Study Variables ................................................ 53
Table 2: Correlation of All Model Variables for Total Sample.................................................... 55
Table 3: Relationship between Stereotype Threat (Operationalized Using the Stereotype Vulnerability Scale) and Job Satisfaction, Mediated by Perceived Stress................................. 57
Table 4: Relationship between Stereotype Threat (Operationalized Using the Stereotype Vulnerability Scale) and Job Satisfaction, Mediated by Perceived Stress and Controlling for Concealing .................................................................................................................................... 58
Table 5: Hypothesis 4 Stereotype Threat using Stereotype Vulnerability Scale (X), Perceived stress, Job Satisfaction where Internalized Homophobia Moderates the Relationship between Stereotype Threat and Perceived Stress .................................................................................................................................. 62
Table 6: Conditional Indirect Effects of the Independent Variable \( a \) on the Mediator Variable \( b \) at Various Levels of the Moderator Variable \( c \) ......................................................................................................................................................................................... 63
Table 7: Hypotheses 5A and 5B Comparing Stereotype Threat and Perceived Discrimination in Explaining Variance in Job Satisfaction and Stress........................................................................................................... 66
Table 8: Hypotheses 6A and 6B Comparing the Multi-Threat Framework and Perceived Discrimination in Explaining Variance in Job Satisfaction and Stress................................................................................................. 67
Table 9: Hypotheses 7A and 7B Comparing the Multi-Threat Framework and Perceived Discrimination in Explaining Variance in Job Satisfaction and Stress......................................................................................... 69
Table 10: Hypothesis 8 Stereotype Threat using the Multi-Threat Framework, Perceived stress, Job Satisfaction where Internalized Homophobia Moderates the Relationship between Multi-Threat Framework and Perceived Stress...................................................................................................................... 71
Table 11: Conditional Indirect Effects of the Independent Variable \( a \) on the Mediator Variable \( b \) at Various Levels of the Moderator Variable \( c \) ......................................................................................................................................................................................... 72
The purpose of the current study is to examine the relationship between stereotype threat and job satisfaction. Previous research has examined the relationship between perceived discrimination and job satisfaction, however only a handful of studies have examined the relationship between stereotype threat and workplace outcomes outside of selection testing contexts (c.f. Kalokerinos, von Hippel, & Zacher, in press; Ployhart, Ziegert, & McFarland, 2003; Sacket, 2003), and even fewer (one, specifically) have examined the impact of stereotype threat with sexual minorities (Bosson, Haymovitz, & Pinel, 2004). Sexual minorities are stigmatized in society and in the workplace for several reasons; most predominately due to a generalized devalued status in society as compared to heterosexuals. The view of heterosexuality in society as the norm, and all other variations as deviant and devalued, has influenced the stereotype that sexual minorities do not fit in with workplace heterosexist cultures. For example, many organizations have implicit gender rules regarding the appropriate ways to act. Females are expected to be more nurturing and promoting group harmony, whereas men are expected to be more assertive and commanding (Blashill & Powlishta, 2009; Udry, 1994). Thus, if sexual minorities are presumed to be gender non-conforming (e.g., feminine men and masculine women), they may not be accepted in the workplace and may face social isolation from coworkers. Furthermore, the general stereotype of sexual minorities as deviant and immoral, due to their lifestyle, may undermine respect and acceptance in the workplace as well. Sexual minorities who fear that they are being stereotyped by their coworkers are likely to feel like they do not belong in the workplace environment and that they are not welcome. These feelings can lead to decreased job satisfaction.
Specifically, the current study will examine the impact of stereotype threat on an important affective organizational variable: job satisfaction. The organizational literature has already demonstrated the impact of lower job satisfaction on valued organizational outcomes such as lower job performance (Judge, Bono, Thoresen, & Patton, 2001), decreased productivity (Halkos, & Bousinakis, 2010), etc. Furthermore, the stereotype threat literature has also found support for a stereotype threat-job satisfaction relationship in two previous studies (von Hippel, Issa, Ma, & Stokes, 2011; von Hippel, Kalokerinos, & Henry, 2013). Although a direct relationship has been found in the von Hippel studies (as mediated by other variables), the current study proposed that the relationship between stereotype threat and job satisfaction is mediated by perceived stress. The organizational literature has demonstrated that stereotype threat is related to stress (Gomez & Wright, 2014; Son Hing, 2012) and that stress is related to job satisfaction (Brewer & McMaha-Landers, 2003; Fairbrother, & Warn, 2003; Guinot et al., 2014; Mansoor, Fida, Nasir, & Ahmad, 2011; Shahu & Gole, 2008). Thus, the current study proposed that the relationship between stereotype threat and job satisfaction is mediated by stress.

A relationship between stereotype threat and job satisfaction was examined in the current study for two reasons. First, stereotype threat is arguably experienced by all minority members by virtue of the fact that the knowledge of the stereotypes regarding the group are known by all members of society; thus, stereotype threat is “in the air” and omnipresent in the minds of minority members, even in non-threatening situations (Steele & Aronson, 1995; Steele et al., 2002). Roberson and Kulik also assert that stereotype threat impacts “everyday, routine situations that are a part of all jobs” because customers, coworkers, and supervisors are continuously forming judgments about those with whom they interact (2007, p. 25). Thus, all
individuals, regardless of their minority status, deal with judgments from others in the workplace; however, individuals who are stigmatized may internalize or have additional anxiety regarding the judgments that non-minority individuals do not face (Roberson & Kulik, 2007). Secondly, stereotype threat research suggests that it will influence processes and outcomes that are impactful in the workplace such as decreased working memory capacity, disengagement with the stereotyped domain/career, self-doubt, and self-handicapping, which consequently may affect minority employees’ affective reactions, such as job satisfaction (von Hippel et al., 2011). Stereotype threat also impacts other outcomes such as disengagement with the stereotyped domain or career, self-doubt, self-handicapping, and avoidance of non-minority individuals; all of which can affect job satisfaction and job performance (Steele & Aronson, 1995; von Hippel et al., 2011).

Additionally, the current study incorporates a recent model of minority stress theory that has been predominately examined in the clinical psychology literature, but has recently been used to predict job satisfaction and general distress. Specifically, minority stress theory states that the experiences of sexual minorities are unique and different from other minority groups as a result of “external stressors related to negative societal perceptions of non-heterosexual sexual identities” (Hequembourg & Braillier, 2009, p. 292). Although the theory has traditionally operationalized the external stressors referenced in this description as perceived heterosexist discrimination, the description also aptly describes stereotype threat as well. It is also a stressor that is a result of the negative societal beliefs regarding non-heterosexual identities. Thus, the incorporation of stereotype threat into minority stress theory is logical. In a recent test of minority stress theory, stressors related to the heterosexist discrimination were negatively related to job satisfaction, and the relationship between discrimination and job satisfaction was
moderated by factors unique to sexual minorities such as internalized homophobia and the
method of concealing utilized by sexual minorities (Velez, Moradi, & Brewster, 2013). Velez et
al. (2013) found that in environments where sexual minorities faced low levels of discrimination
they experienced more job satisfaction at low internalized homophobia, however at high levels of
discrimination, the amount of internalized homophobia had no effect (i.e., it was equally high).
Thus, likewise, internalized homophobia may have more of an impact when stereotype threat is
low than when it is high, because stereotype threat may function similar perceived discrimination
in that both are stressors arising from similar sources (negative stereotypes about the group). The
current study also examines internalized homophobia as a moderator of the stereotype threat-
stress relationship due to its utility in minority stress theory, and its applicability to the
experience of stereotype threat. Specifically, if individuals have a higher level of discomfort or
hatred towards their non-heterosexual sexual orientation, then they may be more sensitive to the
stereotypes regarding sexual minorities (i.e., fear confirming the stereotype even more), and thus
experience more stress in response to stereotype threat.

Thus, based on the research of stereotype threat and job satisfaction (von Hippel et al.,
2011; von Hippel et al., 2013), and the research of minority stress theory tested in the workplace
(Velez et al., 2013), it was expected that the relationship between stereotype threat and job
satisfaction would be mediated by perceived stress, and that the mediated relationship would be
moderated by the factors outlined in Velez et al.; specifically, internalized homophobia and
concealing of the stigmatized identity.

Thus, I examined the impact of stereotype threat on perceived workplace stress and job
satisfaction, in a nationwide sample of gay and lesbian employees (i.e., sexual minorities). This
population was selected due to its highly stigmatized status in society, as well to provide a test of
stereotype threat theory, which states that stereotype threat is not likely to be experienced by individuals who are able to conceal their negatively stigmatized identity (Goffman, 1963; Shapiro & Neuberg, 2007). The literature review will more fully explicate the stereotypes regarding sexual minorities in the workplace, drawing comparisons between established research regarding stereotype threat theory and how it applies to sexual minorities in the workplace; as well as describe the limited research regarding workplace outcomes such as job satisfaction. The unique stressors of sexual minorities will be discussed; specifically, the need to conceal one’s sexual orientation in the workplace, as well as internalized homophobia, and how these variables may impact the relationships found in the current study. Lastly, the study will draw comparisons to minority stress theory, as well as how stereotype threat is distinct from other diversity constructs typically studied, specifically perceived discrimination, and thus may explain unique variance in job satisfaction beyond perceived discrimination. The discussion section will discuss the implications of the current study for stereotype threat research in organizational contexts for both sexual minorities as well as stereotype threat research in general.
CHAPTER TWO - LITERATURE REVIEW

Sexual minorities are one of the most stigmatized minority groups in the United States today (c.f. Herek, 2009); however, despite their marginalized status, relatively little is known regarding factors that impact their work lives as compared to other (protected) minority groups such as women or ethnic minorities. In fact, as of July 2014, only 22 states have state laws that protect against employment discrimination on the basis of sexual orientation. Thus, as the employment laws continue to change in our country, the research needs to also progress with regards of the experiences of minority groups such as sexual minorities. One construct that has received a great deal of empirical support in studies involving other minority groups is stereotype threat. Stereotype threat is defined as “being at risk of confirming, as self-characteristic, a negative stereotype about one's group” (Steele & Aronson, 1995, p. 797). Given that many negative stereotypes exist about sexual minorities (e.g., immoral, untrustworthy, promiscuous, gender-nonconforming, etc.), and the general stigma associated with being devalued in society, it is logical that sexual minorities fear confirming these negative stereotypes to others or themselves. However, stereotype threat is generally regarded as applicable only to stigmatized identities which are visible to others (Shapiro & Neuberg, 2007). Thus, the current study is one of the few empirical examinations of stereotype threat within this unique population (c.f. Bosson Haymovitz, & Pinel, 2004). Additionally, the current study is interested in how the experience of stereotype threat impacts workplace affective outcomes, such as job satisfaction. The extant stereotype threat literature has demonstrated that stereotype threat can affect behavioral performance outcomes, specifically in academic and testing environments; however, relatively little time has been devoted to affective outcomes in the workplace, such as job satisfaction (c.f. Kalokerinos, von Hippel, & Zacher, in press).
Therefore, the current study seeks to fill these voids in the literature by demonstrating a relationship between stereotype threat and job satisfaction with sexual minorities in the workplace, examining the possible mediating effects of stress. The discussion of these relationships will start with a general overview of the relationship between job satisfaction and stereotype threat, followed by elaborating on the relationships between the job stress and job satisfaction, as well as how all three variables fit into a mediation model. Examples of how the model applies to sexual minorities will be used throughout the text, but the second section of the literature review will specifically focus on how the specific stereotypes regarding sexual minorities impact the proposed model in section one, as well how a sexual minority specific moderator variable (i.e., internalized homophobia) impacts the model. Next, the review will discuss how stereotype threat relates to another predictor variable which is commonly examined in diversity research, namely perceived discrimination, and how stereotype threat may explain unique variance in after accounting for the variance explained by perceived discrimination. The literature review will conclude with a discussion of how the examination of stereotype threat in sexual minorities may be benefited by the use of a potentially more comprehensive framework of stereotype threat called the Multi-Threat Framework. The hypotheses will be discussed within their relevant sections.

**Job satisfaction**

Job satisfaction is one of the most studied topics in industrial and organizational psychology due to the potential impact that it has on many personal and organizational variables (Judge, Bono, Thoresen, & Patton, 2001). Low job satisfaction is defined as negative feelings regarding one’s job or aspects of one’s job (Judge, Bono, Thoresen, & Patton, 2001; Spector, 1997). Put simply, “job satisfaction is the degree to which people like their jobs” (Spector, 1997,
p. vii). It is an important and well-studied organizational construct for its ability to predict other important outcomes as well as the various individual and organizational factors influencing it. Job satisfaction has been described an indicator of good employee treatment in the workplace, as well as an indicator of the emotional and psychological well-being of employees, and their interactions with coworkers (Spector, 1997). Additionally, low job satisfaction may lead to critical individual and organizational outcomes, such as turnover intentions (Deery, 2008; Vigoda, 2000), lowered productivity (Halkos & Bousinakis, 2010), reduced organizational citizenship behaviors (Vigoda, 2000), and lower job performance (Judge, Bono, Thoresen, & Patton, 2001). In this way, job satisfaction can be considered as an indicator of how well the organization is likely to function (Spector, 1997).

Job satisfaction as an outcome may be influenced by many factors, including (but not limited to) the individual’s personality (Judge, Heller, & Mount, 2002), interpersonal relationships with coworkers and supervisors (Krueger & Schkade, 2008; Moynihan & Pandey, 2008; Repetti & Cosmas, 1991), job characteristics (Judge, Bono, & Locke, 2000; Loher, Noe, Moeller, & Fitzgerald, 1985), and most recently, stereotype threat (von Hippel et al., 2011; von Hippel et al., 2013). The current study seeks to further explore stereotype as an antecedent variable of job satisfaction. Given the unique characteristics of stereotype threat, as an internal process which is heavily influenced by external factors such as societal norms and stereotypes, it is possible that stereotype threat may explain unique variance in predicting job satisfaction in future studies.

**Stereotype Threat and Job Satisfaction**

The empirical literature regarding the theoretical link between stereotype threat and job satisfaction is still in its beginning stages of development (von Hippel et al., 2011; von Hippel et
al., 2013). Stereotype threat has been traditionally examined primarily in either laboratory settings or within academic settings, in the context of achievement or intelligence tests (c.f. Kalokerinos, von Hippel, & Zacher, in press; Steele, Spencer, & Aronson, 2002). When stereotype threat has been examined in the workplace, it is typically within the context of selection testing (Kalokerinos et al., in press; Ployhart, Ziegert, & McFarland, 2003; Sackett, 2003). Indeed, a majority of the extant literature has addressed the impact of stereotype threat on testing performance and behavioral outcomes (c.f. Steele, Spencer, & Aronson, 2002). For example, stereotype threat has been found to lead to decreased performance in testing environments (Steele & Aronson, 1997), disengagement with the stereotyped domain (Davies et al., 2012), dis-identification with activities traditionally endorsed by the stigmatized group (Steele & Aronson, 1995), alterations of career choices/goals (Gupta & Bhave, 2007; Steele, James, & Barnett, 2002), avoidance of ingroup members (Cohen & Garcia, 2008), increased anxiety (Chung-Herrera, Ehrhart, Ehrhart, Hattrup, & Solamon, 2005), and increased self-handicapping actions such as putting forth less effort on the task (Stone, 2002). However, attitudinal and affective outcomes have been largely ignored, with the exception of some affective outcomes such as increased self-doubt (Steele & Aronson, 1995) and decreased self-esteem (Osborne, 1997) in testing situations as a result of stereotype threat. Research has demonstrated positive relationships between positive attitudes, such as job satisfaction, and organizationally valued outcomes such as job performance (Shahu & Gole, 2008; Spector, 1997). Thus, the current study seeks to add to the literature further examining attitudinal variables, specifically the relationship between stereotype threat and job satisfaction.

Von Hippel, Issa, Ma, and Stokes (2011) conducted one of the first empirical studies establishing a relationship between stereotype threat and job satisfaction, as well as some of the
mediating factors involved. In this study (von Hippel et al., 2011) it was found that women who compared their perceptions of career progression to the perceived career progression of men experienced both an increase in identity separation (i.e., separation of their work identity as a productive employee and their identity as a woman), as well as an increase in stereotype threat. The authors stated that when individuals feel the need to separate their work from their personal identities, this indicates a lack of belonging in the environment (von Hippel et al., 2011). This may be particularly relevant to the current study, given that there are several factors regarding the stereotypes of sexual minorities as well as environmental factors in the workplace that may lead to a decreased sense of belonging. For example, sexual minorities who violate social norms regarding appropriate behavior for men and women may be socially shunned or isolated from their coworkers (Blashill & Powlishta, 2009; Cech & Waidzunas, 2011; Mitchell & Ellis, 2011), thus decreasing their sense of belonging in the workplace. Also, because sexual minorities are likely to feel distinctive and different than their coworkers as a result of their token (or under-represented) status, they may also experience a lack of belonging (Kanter, 1977). Lastly, any stigmatization that engenders a sense of unworthiness, lack of trust, or danger to morals and values may cause heterosexual coworkers to avoid interactions with sexual minorities, which further fosters feelings of lack of belonging, as which will be discussed in greater detail later (Herek, 2009).

Furthermore, von Hippel et al. (2011) found that the relationship between career comparisons to men and identity separation was mediated by stereotype threat, meaning that women who viewed their career potential as being less than men’s also experienced greater conflict between their feminine identity and their work identity, and this conflict was related to greater stereotype threat. However, these relationships were not found when women compared
their perceived career progression to the perceived career progression of other women. Von Hippel et al. (2011) further found that comparisons to men also led to a decrease in confidence of achieving career goals, and that this relationship was also mediated by stereotype threat. The findings of this study are particularly relevant for sexual minorities. Sexual minorities historically earn less than their heterosexual counterparts (Gates, 2013), and as such, they may also perceive that they have decreased career prospects. Additionally, identity separation may be even more relevant for sexual minorities given their stigmatized status in society as well as their perceived gender non-conformity; which may pressure sexual minorities to try and project a more gender appropriate image at work or separate their work and personal identities completely. This pressure to conform to societal norms regarding gender appropriate behaviors may also be reflected in sexual minorities’ decisions to conceal or not conceal their sexual orientation in the workplace, thus forcing sexual minorities to engage in self-censoring activities as part of their concealing efforts, which may contribute to difficulty in forming close relationships due to the expected levels of mutual trust and sharing inherent in such relationships (Goffman, 1963; Human Rights Campaign, 2009). Thus, the findings of Von Hippel et al. (2011) appear to relate to the potential experiences of sexual minorities, as well as women.

Von Hippel et al. (2011) additionally proposed that because stereotype threat research has established a link between stereotype threat and disengagement (Kahn, 1990; Steele, Spencer, & Aronson, 2002), and disengagement has been found via meta-analysis to be related to job satisfaction (Saks, 2006), thus stereotype threat was expected to be related to job satisfaction. As predicted, von Hippel et al. (2011) discovered that stereotype threat impacted job satisfaction and that this relationship was partially mediated by both a belief in lower job prospects (which von Hippel et al. proposed is related to disengagement) as well as by a decreased sense of belonging.
in the workplace (as indicated by a need to separate work and personal identity). Von Hippel and colleagues (2011) proposed that the partially mediated relationship found in their study may be additionally mediated by stress, due to previously established research indicating a relationship between stereotype threat and outcomes of stress.

Von Hippel, Kalokerinos, and Henry (2013) conducted a follow-up study to examine if stereotype threat impacted other organizational outcomes, such as turnover. To accomplish this, they examined stereotype threat in older adults from three online sources: (1) media company employees, (2) law enforcement officers, and (3) both older (over age 50) and younger workers (under age 30) from various industries. Results indicated that stereotype threat was related to several affective workplace outcomes, including job satisfaction. Furthermore, job satisfaction mediated the relationship between stereotype threat and intentions to quit or retire. Interestingly, although younger workers experienced greater levels of stereotype threat than older workers (regarding stereotypes of inexperience), stereotype threat was only related to job satisfaction in older workers (regarding stereotypes of incompetence). Von Hippel and colleagues (2013) suggested that this finding may be explained by how younger workers appraise stereotype threat experiences, and suggested that younger workers may interpret stereotype threat as a challenge to be overcome rather than a threatening experience (Fritzsche, DeRouin, & Salas, 2009).

Thus, both studies (von Hippel et al., 2011; von Hippel et al., 2013) provide support for a relationship between stereotype threat and job satisfaction in two different minority groups, women and older workers. Von Hippel et al. (2011) demonstrated that stereotype threat lowered job satisfaction by increasing disengagement and feelings of lack of belonging in the workplace; both of which are likely for the current population as well. Von Hippel et al. (2013) provided further support for the stereotype threat – decreased job satisfaction link, and also demonstrated
that this relationship resulted in increased turnover intentions as well. Therefore, the foundation for the model tested in the current study also examines this relationship between stereotype threat and job satisfaction.

**Hypothesis 1:**

Stereotype threat is negatively related to job satisfaction.

**Job Stress and Job Satisfaction**

There are several established predictors of job satisfaction in the industrial and organizational literature; most notable is perceived stress. Perceived stress is the result of a “mismatch between the demands placed on an individual and his or her abilities to meet those demands” (Guinot, Chiva, & Roca-Puig, 2014, p. 99). The transactional model of stress suggests that it is the interpretation of the stressful experience as self-relevant or harmful that causes an individual to perceive an event as stressful, rather than the characteristics of the event itself (Folkman & Lazarus, 1980). This initial interpretation of the event as stressful is followed by a secondary appraisal of whether the individual possesses the resources or ability to cope with the stressful event.

The organizational literature is replete with studies demonstrating the deleterious effects of perceived stress on job satisfaction (Brewer & McMaha-Landers, 2003; Fairbrother, & Warn, 2003; Guinot et al., 2014; Mansoor, Fida, Nasir, & Ahmad, 2011; Shahu & Gole, 2008). Increased perceived stress has been related to decreased job satisfaction, decreased productivity, and increased turnover intentions (Adebayo & Ogunsina, 2011; Halkos & Bousinakis, 2010). Sources of stress at work include relationship factors, such as lack of supervisory support (Snelgrove, 1998), poor relationships with coworkers or supervisors (Halkos & Bousinakis, 2010), working conditions, such as unpredictable or unstable work conditions (Snelgrove, 1998),
long work hours (Halkos & Bousinakis, 2010), and threats to career success, such as “being undervalued...and unclear promotion prospects (Fairbrother & Warn, 2003, p. 9).

Stereotype Threat’s Relationship with Job Stress and Job Satisfaction

Steele and Aronson (1995) coined the term stereotype threat to explain the mechanism by which situational factors, such as the testing environment rather than nurture or nature factors, explain performance differences observed between Caucasian and African American students. To reiterate, stereotype threat is the experience of anxiety or concern that one’s actions might confirm a negative stereotype regarding one’s group (Steele & Aronson, 1995). Thus, stereotyped individuals experience anxiety when faced with the expectation that opinions formed about themselves are based upon stereotypes about their group, rather than their own merits or actions (Steele, Spencer, & Aronson, 2002). This implies that stereotype threat is likely to be experienced by all minority members because knowledge about stereotypes regarding their group are known by most members of society. Thus, stereotype threat is “in the air” as being omnipresent in the minds of minority members, even in non-threatening situations (Steele & Aronson, 1995; Steele et al., 2002).

Stereotype threat research has henceforth been applied to a wide range of minority groups, such as women and other ethnic groups, and a wide range of outcomes, such as anxiety, self-doubt, and dis-identification with stereotyped groups and domains (c.f. Steele, Spencer, & Aronson, 2002). Furthermore, because the theory can be applied to various groups and outcomes, the applicability of the theory has widespread implications beyond testing environments (Inzlicht & Schmader, 2011; Steele, Spencer, & Aronson, 2002). Consequently, stereotype threat provides a rather convincing situational explanation for performance differences found between groups, without relying on the nature (i.e., ability or biological differences) or nurture explanations (i.e.,
socialization; Inzlicht & Schmader, 2011). Indeed, because of the many organizational outcomes to which stereotype threat has been shown to be correlated (c.f. Steele, Spencer, & Aronson, 2002), researchers have proposed that stereotype threat has an impact on affective workplace outcomes as well, including job satisfaction (von Hippel, Issa, Ma, & Stokes, 2011; von Hippel, Kalokerinos, & Henry, 2013).

Furthermore, the relationship between stereotype threat and job satisfaction has been shown to be partially mediated by multiple factors, such as confidence in achieving career goals and a sense of belonging in the environment (von Hippel et al., 2011; von Hippel et al., 2013). Von Hippel and colleagues went on to propose that perceived stress may be an additional mediator that should be tested in stereotype threat research. Indeed, the literature already supports the notion that stereotype threat is related to perceived stress. Stereotype threat has been shown to correlate with various physiological indicators of stress such as increased blood pressure (Blascovich et al., 2010) and increased cortisol, which is the body’s primary stress hormone (Huebner & Davis, 2005). Thus, an established relationship exists between stereotype threat and perceived stress.

Stereotype threat is generally considered a “source of stress” (Inzlicht & Kang, 2010; p. 468). For instance, when individuals encounter situations where their social identity is threatened (e.g., hearing racist comments in conversations), they experience involuntary stress reactions that impact other processes (e.g., working memory), which in turn impact performance outcomes. Thus, stress is generally described as the consequence resulting from the imbalance experienced when individuals are faced with the worry of confirming a negative stereotype, as well as their perceived ability to either disprove the stereotype or cope with the threat by alternate methods. For example, stress can be the result of facing a stereotype about gender appropriate behaviors
(e.g., “men in the military are stereotypically very masculine and macho”) and their ability to disprove a negative stereotype about their group (e.g., “gay men are stereotyped as effeminate, how can I act less effeminate to fit in?”). If the gay man has a higher pitched voice than the average male, he may fear not being able to disconfirm the feminine stereotype regarding sexual minorities, and thus may experience stress due to this inability to disconfirm the stereotype. As a result, he may disengage from the situation, which may result in decreased job satisfaction. Such methods include distancing themselves from the stigmatized group (Steele & Aronson, 1995), disengaging from the domain or job (von Hippel et al., 2011), or discounting feedback/opinions from individuals who may be prejudiced against the minority group (Roberson & Kulik, 2007).

Furthermore, stereotype threat is related to both stress and burnout; specifically, stress has been found to mediate the relationship between stereotype threat and burnout in a sample of first year orthopedic surgical residents who feared confirming negative stereotypes regarding medical residents’ abilities (Gomez & Wright, 2014).

Thus, drawing from the previous studies which have established a relationship between stereotype threat and job satisfaction (c.f. von Hippel et al. 2011; von Hippel et al., 2013), and drawing from the literature which has established relationships between stereotype threat and perceived stress, and between perceived stress and job satisfaction, a mediated relationship is proposed.

**Hypothesis 2:**

The relationship between stereotype threat and job satisfaction is mediated by stress, such that as stereotype threat leads to increased stress, which leads to decreased job satisfaction.
The relationships proposed in hypothesis 2 may be further complicated by factors which are uniquely related to the population of interest in the current study, namely sexual minorities. Specifically, the concealability of one’s sexual orientation may also directly impact the experience of stereotype threat. Additional stressors, such as the internalization of stigmas regarding homosexuality, may influence the strengths of these relationships as well. The specific stereotypes regarding homosexuality in the workplace, and the impacts and interplay of these stereotypes on the experience of stereotype threat, stress, and job satisfaction are explored in the next section.

**Sexual Minorities**

**Stereotypes of Sexual Minorities Applied to the Workplace**

Sexual stigma may be particularly insidious, in that it is associated with the negative perceptions surrounding any aspect of non-heterosexuality. Sexual stigma implies the superior status of heterosexuality in society relative to homosexuality, resulting in heterosexism (Herek, 2009). Heterosexism is the ideology that heterosexuality is the norm in society; therefore, any deviations from that norm are unnatural, deviant, and should be devalued (Harper, Jernewall, & Zea, 2004; Herek, 2009). Thus, society’s inherent heterosexist biases (resulting in marriage inequality, lack of employment protection for sexual minorities, etc.) signal to sexual minority members their inferiority in the eyes of heterosexual individuals who hold such beliefs, thereby leading to internalized feelings of devaluation and inferiority (Harper, Jernewall, & Zea, 2004; Herek, 2009). As described in Beatty and Kirby (2006), stigmatized identities are more harshly judged when they are considered to threaten the purity and morality of society (e.g., “sexual orientation is deviant and perverse”), and when the stigma is considered be within the individual’s control (e.g., “sexual orientation is a choice”), changeable (e.g., “sexual orientation
can be cured”, and likely to impact job performance through impairments in social interaction (e.g., “sexual minorities are difficult to get along with”). Thus, the stigma surrounding sexual minorities’ social identity may lead them to be more harshly judged and stereotyped by others in the workplace who hold strong heterosexist beliefs.

Heterosexist beliefs influence workplace settings, leading to stereotypes regarding sexual minorities, such as 1) stereotypes regarding the violation of gender norms, 2) purported promiscuity and lack of morals, 3) presumed mental illness, and 4) a general sense of threat to heterosexuals. Ward and Winstanley (2003) suggest that derogatory remarks regarding sexual minorities in the workplace may be more about a general lack of ability of sexual minorities to perform the job solely as a result of their presumed inferiority and their devalued societal standing. Indeed, although certain environments may lead to greater perceptions of stereotype threat due to strong heterosexist or masculine cultures (e.g., military), a majority of the stereotypes that exist regarding sexual minorities in the workplace may due to a general stereotype regarding a sexual minority member’s lack of worth, lack of professionalism (due to presumed lifestyles or gendered workplace behaviors), or lack of morals (Ward & Winstanley, 2003).

**Gender norms**

One stereotype that sexual minorities face, both in society and in the workplace, is due to the presumed violation of gender roles, or the gender scripts that are expected for men and women in society. Sexual minority members, particularly males, who violate gender norms may be regarded with hostility (Blashill & Powlishta, 2009; Cech & Waidzunas, 2011; Mitchell & Ellis, 2011). Societal norms propound that women are feminine, nurturing, good communicators, submissive, and so on; whereas men are assertive, powerful, and masculine (Blashill &
Powlishta, 2009; Udry, 1994). Additionally, feminine expectations are often associated with negative stereotypes, such as lack of assertiveness, competence, or leadership ability. Research with heterosexual females supports the notion that feminine stereotypes are particularly detrimental in male-dominated professions, such as those involving technology and engineering (Blashill & Powlishta, 2009; Burack & Franks, 2006; Cech & Waidzunas, 2011; Cheryan, Davies, Plaut, & Steele, 2009; Mitchell & Ellis, 2011). One of the most prevailing stereotypes regarding sexual minorities is that sexual minorities are gender-nonconforming, implying that all gay men are feminine and all lesbians are masculine (Blashill & Powlishta, 2009). Thus, gay men who possess stereotypically feminine characteristics may face negative stigmatization as a result of both their gender non-conforming mannerisms as well as their devalued feminine characteristics (Streets & Hannah-Hanh, 2014). This devalued status as a non-masculine, feminine male may impact how gay men are perceived by their workgroup, thereby leading to stereotype threat in the workplace, which may further impact experienced stress and hinder the formation of relationships in the workplace. Furthermore, gay men who do not portray feminine characteristics may particularly fear confirming this stereotype, especially in workplaces with strong heterosexist cultures. One study described how gay men often form criticizing judgments of other gay men who portrayed stereotypically feminine characteristics, and as a result often self-monitor their own behavior in order to avoid being classified as similar to that subculture of sexual minorities (Hequemboeurgh & Braillier, 2009). The wide range of stereotypes and subcultures within the gay and lesbian communities has also contributed to a lack of solidarity within sexual minorities as a whole (Hequemboeurgh & Braillier, 2009).

Although lesbians are stereotyped to possess masculine traits, as women, they also face additional stigmatization due to sexism (Abrams, 1989; Hequemboeurgh & Braillier, 2009).
Research has demonstrated that women who behave in stereotypically masculine ways are often perceived as rude, inappropriate, and overstepping their boundaries in the workplace (Abrams, 1989; Embrick, Walther, & Wickens, 2007). Hence, some lesbian women may experience stereotype threat in the workplace based both upon their sexual minority status and because of the added concern to act appropriately by conforming to feminine gender norms. Therefore, both male and female sexual minorities may experience stereotype threat as a result of the pressure to conform to their birth-sex gender roles in addition to their status as sexual minorities, particularly in workplaces with strong masculine or feminine cultures (e.g., military; Streets & Hannah-Hanh, 2014).

**Promiscuity and Moral Deviance**

Sexual minorities often report being perceived as more hyper-sexual and promiscuous than heterosexual men and women (Hequembourg & Brallier, 2009). However, the moral deviance stereotypes of sexual minorities often differ depending on the sex of the target. Whereas the sexuality of lesbians is sometimes eroticized by heterosexual men, the sexuality of gay men is perceived as deviant and promiscuous (Giuffre, Dellinger, & Williams, 2008; Hequembourg & Brallier, 2009). For women, this stereotype may cause interactions with coworkers particularly difficult due to unwanted sexual advances from men who stereotype lesbians and bisexuals as hyper-sexual and in need of a “real man.” Gay men, by contrast, may experience uncomfortable interactions with heterosexual males who fear that sexual minorities are over-sexed and may have a hidden agenda to “convert” them into homosexuals (Hequembourg & Brallier, 2009). Additionally, sexual minorities have reported they fear the stereotypes regarding their sexuality within the workplace are often construed as unprofessional by heterosexual coworkers (Human Rights Campaign, 2009). Furthermore, some heterosexuals
deny the legitimacy of homosexuality, considering it a deviant choice that can be changed by “finding the right person;” as such, some heterosexuals consider homosexuality to be an indicator of lack of character, which may be particularly harmful to sexual minorities in the workplace (Hequembourg & Braillier, 2009). Thus, stereotypes regarding the sexual behaviors of sexual minorities are impactful in workplace settings and may lead to sexual harassment and/or discrimination (Leband & Lentz, 1998), as well as hindering the development of relationships with coworkers, another important component of job satisfaction (Repetti & Cosmas, 1991).

**Mental Illness**

Sexual minorities may also be perceived as mentally unstable as a result of their sexual orientation (Hequembourg & Braillier, 2009). It has been found that sexual minorities have a higher incidence of mental health issues than their heterosexual counterparts as a result of their stigmatized status in society (Hatzenbuehler, 2009; Lehavot & Simoni, 2011). However, Weinberg (1972) asserted that the impact of aggression towards homosexuals poses an even greater risk to mental well-being than homosexuality itself (as cited in Herek, 2009). The impacts of discrimination and the stigmatization of sexual minorities have been well-researched in the clinical and counseling literature, and include such mental health outcomes as anxiety (Diaz, Ayala, Bein, Henne, & Marin, 2001), depression (Diaz et al., 2001), substance abuse (Burgard, Cochran, & Mays, 2005; Eisenberg & Wechsler, 2003; Hatzenbuehler, Corbin, & Fromme, 2009), lowered self-esteem (Crocker & Major, 1989), and suicidal thoughts (Eisenberg & Resnick, 2006; Safren & Heimberg, 1999; Wichstrom & Hegna, 2003), among others.

Stereotypes regarding mental illness are particularly damaging to all individuals in the workplace, including sexual minorities. Research in employee selection has demonstrated that individuals are seven times more likely to hire a physically disabled employee than a mentally
disabled employee (Koser, Matsuyama, & Kopelman, 1999). Furthermore, employees have been shown to stigmatize other employees with presumed mental disorders through such actions as limiting promotion opportunities, spreading gossip about the individual, attributing any errors to the presumed mental illness, and socially excluding these individuals (Wheat, Brohan, Henderson, & Thornicroft, 2010). Thus, in addition to the negative stereotypes associated with being a sexual minority member, these individuals may also fear being judged as mentally ill by supervisors or coworkers, and therefore devalued or judged as unfit in the workplace. Such stigmatized individuals may be further isolated and disconnected from their coworkers and job due to the fear of appearing mentally ill, which further decreases job satisfaction.

**Sexual Minorities as a Source of Threat to Heterosexuals**

Sexual minorities are often perceived by heterosexuals as threatening to their beliefs (e.g., religious) or personal safety (e.g., HIV; Oswald, 2007). The stereotype of sexual minorities as a threat is particularly salient within professions that involve interactions with children, such as childcare workers or teachers, due to the stereotype regarding sexual minorities (particularly gay men) as child predators (Bosson, Haymovitz, & Pinel, 2004). Another threatening stereotype regarding sexual minorities, and gay men in particular, is that sexual minorities spread HIV or AIDS, which has historically contributed to the fear and negativity towards sexual minorities (Herek, 2009). Although the Center for Disease Control (2001) has found that a majority of AIDS cases are reported for men who have sex with men (57%, versus nine percent of non-drug related heterosexual cases), the stereotype that all sexual minorities are HIV-positive or have AIDS is particularly damaging for workplace relationships (Altman et al., 2012). The belief that sexual minorities are threatening due to their presumed HIV-positive status has been found to increase negative affective perceptions of sexual minorities, increase social distance from sexual...
minorities, and increase perceptions of sexual minorities as immoral and deviant individuals (Oswald, 2007). Fear of confirming a threatening stereotype, such as being a predator or HIV-positive, may lead sexual minorities to self-monitor their behaviors and how much information they share regarding their personal lives, thus negatively impacting the formation of social relationships in the workplace.

Concealing Sexual Orientation

Stereotype threat has also been shown to influence individuals to avoid stigmatizing situations using preemptive coping and avoidance strategies, such as concealing one's stigmatized identity when possible, or avoiding social situations in which the stigma may become more obvious to others (Herek, 1996; 2009). Given the numerous stereotypes that sexual minorities may encounter in the workplace, it is not surprising that so many choose to conceal their sexual orientation. According to a national survey, 41% of sexual minorities feared being stereotyped if they revealed their sexual orientation at work (Human Rights Campaign, 2009). Sexual minorities who felt the need to conceal within the workplace reported their organizations as less supportive of them as sexual minorities (Ellis & Riggle, 1996). Lack of organizational support have been related to lower job satisfaction (Brewer & McMaha-Landers, 2003). Thus, pressures to conceal may impact both the experience of stereotype threat by potentially avoiding stigmatization, as well as directly decreasing job satisfaction due to the perception of lack of organizational support.

Earlier researchers suggested that individuals with concealable stigmatized identities have an advantage over individuals with non-concealable stigmatized identities because of their ability to “pass as normal” (Goffman, 1963). However, more recent research has revealed that individuals with concealable stigmatized identities face additional unique challenges not
encountered by those having non-concealable stigmatized identities (Ragins, 2008; Shapiro, 2011a; Waldo, 1999). For example, decisions regarding whether or not to disclose a stigmatized identity, as well as the emotional and cognitive stress associated with concealing part of one’s identity, are unique for individuals who have the choice whether or not to conceal. As such, individuals concealing stigmatized identities often experience the added anxiety and fear that their secret could be revealed at any moment. In fact, the fear of disclosing one’s sexual orientation, rather than actual disclosure outcomes, appears to be strongly related to lower job satisfaction (Ragins & Cornwell, 2007).

Interestingly, both concealing and non-concealing sexual minorities are equally as likely to report avoiding people at work or skipping work, according to the Human Rights Campaign (2009). Furthermore, 54% percent of completely concealing sexual minorities reported having to lie about their personal lives, compared with 21% of sexual minorities who were completely non-concealing in the workplace, indicating that there are similar experiences to stereotype threat regardless of concealing (Human Rights Campaign, 2009). This may be because sexual minorities, regardless of whether they choose to conceal or not, often feel the need to censor what information they reveal in order to avoid portraying themselves or their group in a negative manner. These self-censoring activities may contribute to difficulty in forming close relationships because sexual minorities may feel as if they cannot trust others in the workplace or may feel disingenuous and therefore doubt the sincerity of their relationships with others with whom they feel they interact with (Goffman, 1963; Human Rights Campaign, 2009).

Several theories support the notion that concealing a secret has negative outcomes for the concealing individual, often by making the stigma more salient. According to the preoccupation theory of concealable stigmas, individuals who conceal a stigma may become so preoccupied
with trying to hide their identity that they create a state of mind in which thoughts regarding the stigmatized identity intrude into other aspects of their thinking (Smart & Wegner, 1999). This behavior can result in negative physical, emotional, and psychological well-being (Ragins, 2008; Smart & Wegner, 1999). Additionally, stigmatized individuals may feel they lack privacy due to the real or perceived attention their stigma draws towards themselves (Goffman, 1963).

One of the benefits of revealing sexual orientation is the development of a unified sense of self. According to self-verification theory, individuals have a desire to be seen by others the same way they see themselves (c.f. Swann, 2011), and this desire often motivates individuals to reveal a concealable stigma, despite the risks associated with that decision (Ragins, 2008). Additionally, being open about one’s concealable stigma may dispel some misperceptions associated with the stigma by presenting counter-evidence through one's actions or demeanor (Oswald, 2007). Individuals who are open about their sexual orientation have more positive self-identities and relationships with others, which are positively related to job satisfaction (Ragins, 2004; Ragins, 2008; Ragins, Singh, & Cornwell, 2007). Overall, self-verification attempts are instrumental in the creation of a unified sense of self, reducing anxiety, and “eroding social stereotypes” through the presentation of one’s true self to others (Swann, 2011, p. 23).

Thus, fears of confirming negative stereotypes, as well as the desire to avoid negative consequences of being stigmatized in the workplace, may contribute to sexual minorities’ desire to conceal their sexual orientation in the workplace. Due to the scarcity of research on concealable stigmatized identities, practitioners and researchers have been unable to draw definitive conclusions about the experience of stereotype threat in individuals with concealable stigmatized identities, resulting in a lack of effective interventions for reducing stereotype threats in such individuals. Stereotype threat theory states that individuals would not experience
stereotype threat if they are concealing because then they would not be judged by the stereotypes of a group which they presumably were not part of. However, the literature on sexual minorities has provided many reasons for the greater negative impact of concealing on the psychological wellbeing and stress of sexual minorities. Therefore, there is a need to explore the different experiences of concealed and non-concealed sexual minorities. Therefore, the current study will examine whether there are any differences between concealing and non-concealing sexual minorities, and control for the effects of concealing described in the previously proposed mediation hypothesis (hypothesis 2).

**Research Question:**
Are there significant differences between concealing and non-concealing sexual minorities on measures of stereotype threat, perceived stress, and job satisfaction?

**Hypothesis 3:**
Controlling for the effects of whether participants are concealing or non-concealing in the workplace, the relationship between stereotype threat and job satisfaction is mediated by perceived stress, such that stereotype threat leads to increased levels of perceived stress, and increased levels of perceived stress lead to decreased levels of job satisfaction.

**Sexual Minority Stereotype Threat and Its Impact on Stress and Job Satisfaction**

Steele, Spencer, and Aronson (2002) argue that stereotype threat theory applies to any social identity because any social identity can be stigmatized, particularly if it is denigrated by a large portion of society, as sexual minorities are (Herek, 2009). In the previous section, the stereotypes regarding sexual minorities were described in relation to workplace applicability or in relation to factors that impact job satisfaction. Moreover, the consensus of researchers is that stereotype threat is “in the air,” meaning that anyone can experience stereotype threat given the
right circumstances (Steele, 1997). Additionally, researchers have demonstrated the importance of situational and environmental factors in determining whether stereotype threat will emerge (c.f., Steele, Spencer, & Aronson, 2002). Such factors include the experiences of tokenism (i.e., being one of only a few minority members in the environment), the development and maintenance of interpersonal relationships with coworkers or supervisors, whether the stereotype is one that is a generally devalued social identity, and the stress resulting from being judged and ruminating about the stigmatization.

**Tokenism and Environmental Cues**

Stereotype threat literature has repeatedly demonstrated the impact of environmental cues on the elicitation of stereotype threat for minorities such as women and African Americans, even without explicit elicitation of the relevant stereotypes (Burack & Franks, 2006; Cheryan, Davies, Plaut, & Steele, 2009; Inzlicht & Ben-Zeev, 2000; Steele et al., 2002; Streets & Hannah-Hanh, 2014). For example, certain environmental cues can be objects present in the workplace (e.g., sci-fi posters and video games cuing a masculine environment vs. scenic posters and books in a gender neutral environment; Cheryan et al., 2009), or the lack of other minority representation in the workplace (Lord & Saenz, 1985; Sekaquaptewa & Thompson, 2003). Token status means being a part of a minority group that constitutes less than 15% of the total demographic of the group (Kanter, 1977). Because sexual minorities are estimated to account for only about 10% of the U.S. population, according to the most recent U.S. Census (Gates, 2013), they are very likely to be token members of their minority group in most workplaces. Indeed, much of the research on stereotype threat and workplace outcomes typically has discussed stereotype threat in the context of being elicited by the minority members’ token status (Block, Koch, Liberman; Merriweather; & Roberson, 2011; Roberson, Deitch, Brief, & Block, 2000).
Tokenism has been shown to be an antecedent to stereotype threat because of feelings of distinctiveness and vulnerability. This further decreases job satisfaction due to expectations by minority group members that they will be stereotyped by majority group members (Block et al., 2011; Neimann & Dovidio, 1998; Roberson et al., 2003). Token status signals to the minority member that they are not valued or welcomed in the environment, and that they may not be as capable as majority group members (Block et al., 2011; Burack & Franks, 2006; Steele et al., 2002). Being the token member in a group has been shown to be detrimental to performance by negatively affecting working memory and diverting concentration to other aspects of oneself. This impacts not only psychological well-being, but potentially an organization’s productivity levels as a whole (Brown, 2012; Lord & Saenz, 1985; Schmader & Johns, 2003). Other studies of stereotype threat in the workplace have found that solo-status minority members are less likely to seek feedback regarding their performance, and often discount the feedback they receive due to uncertainty whether the feedback was impacted by the stereotypes regarding their group membership (Roberson et al., 2003).

Additionally, the lack of other known sexual minorities in the workforce often places additional pressures on sexual minorities to act as good representatives of their group (Giuffre et al.). The added pressure to be role models of a minority group places greater pressure on individuals to self-censor their behaviors in order to portray the best impression possible, again creating similar feelings to being concealed in the workplace (Giuffre et al.). As such, these findings suggest that being the only sexual minority in the workplace may increase the sexual minorities’ self-consciousness regarding the stereotypes of their group, thus leading to stereotype threat, which in turns leads to other negative outcomes (Goffman, 1963; Murphy, Steele, &

**Relationships with Coworkers and Social Support**

Stigma-related experiences, such as stereotype threat, may prevent sexual minorities from fully engaging with coworkers and participating in the social aspects of the workplace (Gates & Mitchell, 2013). Therefore, stereotype threat leads to the social isolation of minority members through the lack of interpersonal relationships with coworkers. This is even more likely for sexual minorities given the stereotypes described earlier regarding hatred and fear. Indeed, sexual minorities have been found very likely to experience social isolation as a result of their sexual orientation (Diaz, Ayala, Bein, Henne, & Marin, 2001; Embrick, Walther, & Wickens, 2007; Oswald, 2007).

One way stereotype threat might impact social interactions is by influencing minority members to avoid majority group members (Oswald, 2007). Social interactions with coworkers are an important dimension of job satisfaction (Griffith, Steptoe, & Cropley, 1999; Huffman, Watrous-Rodriguez, & King, 2008; Repetti & Cosmas, 1991). Positive coworker and supervisor relationships within the workplace have been related to higher job satisfaction and decreased turnover intentions (Krueger & Schkade, 2008; Moynihan & Pandey, 2008; Repetti & Cosmas, 1991). Research has suggested that having a supportive supervisor may be related more to job satisfaction, whereas coworker relationships were more likely to be related to overall life satisfaction (Huffman, Watrous-Rodriguez, & King, 2008; Repetti & Cosmas, 1991). Thus, the social isolation experienced by sexual minorities would be expected to impact job satisfaction.

Another long-term result of stereotype threat may be that minority individuals are disadvantaged compared to other employees with regard to career progression (Streets &
Hannah-Hanh, 2014). Performance decrements resulting from stereotype threat may accumulate and lead to loss of opportunities on projects or tasks that are important to improving task-related skills, knowledge, and abilities that translate into more opportunities for advancement and growth later on in one’s career (Streets & Hannah-Hanh, 2014). Von Hippel et al. (2011) found that perceptions of lower career prospects led to lower job satisfaction. Thus, stereotype threat in sexual minorities may lead to lower job satisfaction to the extent that stereotype threat hinders the development of relationships with coworkers that may facilitate future career growth. Indeed, research has shown that sexual minorities have lower job satisfaction than heterosexuals, specifically with regard to satisfaction with pay, promotion prospects, and supervisor respect (Drydakis, 2012).

Research has also found that workers’ interpersonal trust in the workplace decreases perceived stress, which thus increases job satisfaction, suggesting that the relationship between interpersonal trust and job satisfaction is mediated by stress (Guinot, Chiva, & Roca-Puig, 2014). Sexual minorities experiencing stereotype threat may also be less likely to trust others because they may question whether majority members believe the stereotypes about their group, or if their coworkers’ judgments are impacted by the knowledge of such stereotypes, or what prejudices the majority members may have towards their group. Thus, as a result of stereotype threat, sexual minorities may experience increased stress due to their inability to trust others.

Thus, overall stereotype threat with sexual minorities is likely to decrease the likelihood of developing or maintaining meaningful interpersonal relationships and decrease interpersonal trust with coworkers; which may lead to career development, social support, or reduced perceived stress.
Non-Specific Devalued Social Identity

Due to widespread societal knowledge of negative stereotypes about minority groups, minority members often experience stereotype threat in the workplace, knowing the stereotypes may be prevalent in their coworkers’ minds, even in workplaces with non-discriminatory policies (Roberson & Kluik, 2007). For example, Caucasians may fear being stereotyped as racist (Frantz, Cuddy, Burnett, Ray, & Hart, 2004); overweight workers may fear being stereotyped as lazy (Shapiro, 2011); African Americans may fear being stereotyped as less intelligent (Steele & Aronson, 1995); and sexual minorities may fear being stereotyped as dangerous predators, promiscuous, deviant, or generally inferior in the eyes of heterosexual coworkers (Bosson et al., 2004; Oswald, 2007).

Individuals spend a large proportion of their week in the workplace. As such, individuals often derive a sense of personal identity from their jobs (Van Knippenberg, 2000; Gates, & Mitchell, 2013). Thus, if sexual minorities are stereotyped as being unprofessional, inadequate, or devalued in some way in the workplace, internalizing such a devalued work identity may lead to decreased job satisfaction. (Ellemers & Barreto, 2006; Ragins & Cornwell, 2001). One way the stereotype regarding a general devalued status is conveyed by others is by ignoring the reality of issues regarding sexual minorities in the workplace. The avoidance of open discussions regarding sexual orientation in the workplace has led to what some researchers call a “negative space” (Ward & Winstanley, 2003), implying that the lack of discourse regarding sexual orientation draws more attention to the situation because sexual minorities are keenly aware of the lack of acknowledgement of their personal lives. Similar to arguments that white men in the workforce mistakenly believe organizations are race and gender neutral (rather than biased towards an all-white male standard), many heterosexual workers are purported to also believe
that the workplace is sexually neutral rather than heterosexist (Ward & Winstanley, 2003). Sexual minorities often report that heterosexual coworkers seem reluctant to inquire about the personal lives of sexual minority workers, such as weekend plans, children, dating life, and so on, which is a common form of bonding and interaction among heterosexual employees (Giuffre, Dellinger, & Williams, 2008; Hequembourg & Braillier, 2009). The avoidance of social interaction is demoralizing and demeaning to the relationships that sexual minorities have with their loved ones (Smith, 2013), and may lead to a general sense of feeling stigmatized and devalued in the workplace, which has negative implications for minority members’ job satisfaction (Embrick, Walther, & Wickens, 2007; Ward & Winstanley, 2003). Thus, rather than sexual minorities experiencing stereotype threat regarding a particular issue, they may experience stereotype threat as a result of knowledge that their minority group is devalued by those around them. This sense of being devalued may lead to increased stress in the workplace as well as decreased job satisfaction from working in an environment which does not formally acknowledge and embrace their existence (Streets & Hannah-Hanh, 2014).

**Fear of Judgments and Ruminating Thoughts**

Regardless of the stigmatized individual’s personal experiences or beliefs regarding the validity of the stereotypes of their group, stereotyped individuals are aware that they may be judged in a negative light by others (Roberson & Kulik, 2007; Steele et al., 2002). This may be particularly salient in a workplace where supervisors can potentially use stereotypes to make performance judgments (Streets & Hannah-Hanh, 2014).

The stigma associated with homosexuality is said to “get under the skin;” implying that managing a stigmatized identity such as homosexuality is chronically stressful (Hatzenbuehler, 2009, p. 707). This may be because homosexuality is still one of the most stigmatized groups in
the United States, as evidenced by the 2004 U.S. national election poll which indicated that homosexuals are one of the least liked minority groups, out-scoring only illegal immigrants on a feelings-thermometer rating (Herek, 2009). Hatzenbuehler proposed that the stigma that sexual minorities experience results in stress. This stress increases the need for coping mechanisms, such as increased emotional regulation or cognitive reappraisal of the situation; in addition to the presence of interpersonal support systems. Thus, the lack of such coping mechanisms may lead to mental health issues for sexual minorities in the workplace, such as depression and anxiety (Hatzenbuehler, 2009).

Emotional regulation is the use of cognitive strategies, which are employed to manage and express emotional responses, and can be activated either consciously or unconsciously (Gross, 2001). Examples include reappraisal of the situation to minimize the impact on one’s emotions, or suppression of the outward expression of emotions. Thus, emotional regulation has been proposed to act as a mediator between stress and negative outcomes, such as depression. Rumination is another emotional regulation response which is characterized by the passive repetitive preoccupation with the stressor (Hatzenbuehler, 2009). It is common for sexual minorities, particularly those who are concealing, to ruminate about the hidden meaning of events and situations, which causes many sexual minorities to engage in self-monitoring in the workplace (Hatzenbuehler, 2009; Pachankis, 2008). This preoccupation with the stigma and stereotypes regarding the group leads individuals to have ruminating thoughts, contributing to what some researchers have called a “private hell” (Smart & Wegner, 1999). These ruminating thoughts contribute to decreased cognitive capabilities, such as decreased working memory capacity, and increased anxiety of being revealed to others, thus incurring costs both to the organization through turnover or lost wages, as well as to the individual’s health and
psychological well-being (Brown, 2012; Inzlicht, Tullett, Legault, & Kang, 2011; Lord & Saenz, 1985; Ragins, 2008; Schmader & Johns, 2003). Therefore, stereotype threat may lead sexual minorities to ruminate over possible negative judgments and evaluations from others, which decreases cognitive resources, increases stress, and which in turn negatively impacts job satisfaction.

**Minority Stress Theory**

Minority stress theory (Meyers, 1995) suggests that sexual minorities face chronic pressures to conform to society’s heterosexist standards. Minority stress theory is composed of three related processes (Meyers, 1995; Meyers, 2003). One component is the existence of “external stressors related to negative societal perceptions of non-heterosexual sexual identities” (Hequembourg & Braillier, 2009, p. 292), which is usually operationalized in minority stress research as discrimination. However, this definition could be roughly applied to stereotype threat as well. Stereotype threat is also a stressor related to the derogatory societal perceptions of sexual minorities. The second component is “the internalizations of those stressors by [sexual minorities]”; i.e., internalized homophobia (Hequembourg & Braillier, 2009, p. 292). Internalized homophobia is experienced when sexual minorities harbor feelings of prejudice and disgust regarding their own homosexuality as a result of the internalization of society’s negativity regarding non-heterosexual relationships (Herek, 2009). In fact, it has been proposed that the deleterious effects of internalized homophobia never completely subside, even after individuals have fully accepted their non-heterosexual sexual orientation (Cass, 1984), suggesting that all sexual minorities, regardless of their reported level of internalized homophobia, are susceptible to stigmatization and stereotype threat. The last component concerns the “expectations of stressors and the vigilance necessary to anticipate them”
Thus, it seems logical that stereotype threat may play a role in the experiences described in minority stress theory.

Similar to the current study, stress is often conceptualized as a mediator within minority stress theory, mediating the relationship between their stigmatized status in society and psychopathology (e.g., depression and emotional distress; Hatzenbuehler, 2009; Meyers, 2003). Meyers (2003) further delineated distal stressors (such as discrimination based on sexual orientation) from proximal stressors (such as internalized homophobia, fears of rejection, and pressures to conceal). The pressures to conceal are often rooted in a belief that sexual minorities may face discrimination in the workplace such as social isolation, or termination of employment as a result of their sexual orientation. Thus the fear of confirming negative stereotypes about sexual minorities may impact job satisfaction by decreasing sexual minorities’ belief that they are accepted and integrated into the workplace.

Minority stress theory has been tested only a few times in regard to work-specific outcomes (e.g., Velez, Moradi, & Brewster, 2013; Waldo, 1999); therefore, researchers in the field are calling for greater use of the theory in workplace settings. While testing the minority stress theory model in the workplace, Waldo (1999) found that concealing sexual orientation was related to the experience of more indirect heterosexism (e.g., exclusion from social events), but that being open in the workplace was related to more experiences of direct heterosexism (e.g., demeaning comments); however, both forms of heterosexism were negatively related to job satisfaction. In a more recent test of this model, expectations of stigmatization (similar to stereotype threat), internalized heterosexism, and workplace heterosexist discrimination were related to lower job satisfaction and greater psychological distress (Velez et al., 2013). The relationship between expectations of stigma and job satisfaction was moderated by method of
concealing (i.e., hiding one’s sexual orientation, avoiding discussions regarding one’s sexual orientation, or being open regarding one’s sexual orientation in the workplace), as well as internalized homophobia. However, Velez et al. (2013) found that in environments where sexual minorities faced low levels of discrimination they experienced more job satisfaction at low internalized homophobia, however at high levels of discrimination, the amount of internalized homophobia had no effect (i.e., it was equally high). Thus, likewise, internalized homophobia may have more of an impact when stereotype threat is low than when it is high, because stereotype threat may function similar perceived discrimination in that both are stressors arising from similar sources (negative stereotypes about the group). Together, the results of Waldo (1999) and Velez et al. (2013) demonstrated that variables that are theoretically related to stereotype threat (i.e., heterosexist discrimination and expectations of stigmatization) are both directly and indirectly related to job satisfaction and distress. The model also highlights the possibility of a moderator variable, internalized homophobia, which may be included in the model proposed in Hypothesis 2. Based on this research and theory, the following is hypothesized.

**Hypothesis 4**

Controlling for the effects of concealing, the relationship between stereotype threat and job stress is moderated by internalized homophobia such that the relationship between stereotype threat and perceived stress is higher for individuals who have higher internalized homophobia than individuals who have lower internalized homophobia.

**Stereotype Threat versus Discrimination**

Although stereotype threat in sexual minorities has not been widely examined in the literature (c.f. Bosson, Haymovitz, & Pinel, 2004), discrimination and prejudice towards sexual
minorities has been widely studied (c.f., Human Rights Campaign Foundation, 2009). It is well documented that violence and discrimination against homosexuals occurs in the workplace (Human Rights Campaign Foundation, 2009), and a great deal of research regarding workplace outcomes has examined the impact of perceived workplace discrimination on workplace experiences such as job satisfaction (Ensher, Grant-Vallone, & Donaldson, 2001; Moyes, Williams, & Quigley, 2000; Orpen, 1995; Velez, Moradi, & Brewster, 2013). Additionally, research has also demonstrated that employers tend to form less favorable impressions based on resumes from individuals who appear to be gay, and are less likely to hire a gay applicant, than a straight individual (Hebl et al., 2002). Thus, it is pertinent to address the differences between stereotype threat and discrimination, given that they are likely to be highly correlated; however they are distinct constructs and thus may each explain unique variance in workplace outcomes.

In order to understand the differences between stereotype threat and discrimination, it is useful to understand how they relate to the three types of stigma which exist.

Stigmatization is defined as a social stressor which involves “negative evaluations of self or ingroup” and can occur, among other ways, as a result of reminding individuals of their negatively viewed stigmatized identity (Son Hing, 2012, p. 154). Stigmatization and stigmas can be experienced in three general ways: as felt stigma, internalized stigma, or enacted stigma (Herek, 2009). First, felt stigma is the knowledge that a stigma exists and the expectation of where, when, and how enacted stigma can occur. Regardless of minority status, everyone can experience felt stigma because every society has implicit rules regarding the treatment and emotional reaction towards certain minority groups, particularly groups which violate the perceived values and norms of the majority members (Dovidio & Hebl, 2005). For example, a feminine heterosexual male may fear confirming stereotypes regarding his sexuality (i.e., may be
mistaken for a sexual minority), and thus may experience stereotype threat regardless of the fact that he is not actually part of the stigmatized group. Therefore, felt stigma exists in the experience of stereotype threat (Herek, 2009).

Second, enacted stigma is the physical manifestation of stigma, such as hate crimes, racial slurs, and the exclusion or avoidance of stigmatized individuals. As such, discrimination would be an example of enacted stigma, whereas prejudice and stereotyping are more indicative of felt stigma. Additionally, minorities do not need to personally experience discrimination to know that others within their group have been discriminated against. Thus experienced or perceived discrimination is not a necessary component of stereotype threat. Lastly, internalized stigma is the integration of society's opinion regarding a stigma into their own self-concept and belief system, thereby allowing an individual to justify the existence of felt and enacted stigma (Herek, 2009). Internalized homophobia, also called internalized heterosexism or internalized homonegativity, is a form of self stigma where the sexual minority harbors feelings of prejudice and disgust towards their homosexuality (Herek, 2009; Weinberg, 1972).

Thus, because both stereotype threat and perceived discrimination may cover different construct space, stereotype threat is hypothesized to predict incremental variance over perceived discrimination. Because all members of the minority group are likely to have experienced felt stigma (i.e., stereotype threat), the experiences of stereotype threat may be more generalizable than perceived discrimination (i.e., enacted stigma). As the literature on stigmas have shown, the concepts are related, but not identical, thus they may each explain unique variance in outcomes. Additionally, the relationship with perceived stress will be tested in order to measure the relationship with these two variables, so that both the proximal outcome (perceived stress) and the distal outcome (job satisfaction) of the current study’s models are examined.
**Hypothesis 5A**

Stereotype threat explains incremental variance in job satisfaction beyond what can be explained by perceived discrimination alone.

**Hypothesis 5B**

Stereotype threat explains incremental variance in perceived stress beyond what can be explained by perceived discrimination alone.

**Multi-Threat Framework**

The use of sexual minorities as the target group of investigation for the current study may necessitate the use of alternative stereotype threat measures. The Multi-Threat Framework assesses the existence of multiple stereotype threats (Shapiro & Neuberg, 2007). The Multi-Threat Framework is defined by two dimensions: the target of stereotype threat (i.e., self or group) and the source of judgments regarding the stereotype (i.e., self, outgroup, or ingroup). The interaction of the two dimensions (target and source of judgment) creates six stereotype threats, each with a unique combination of eliciting factors, and which may require different interventions or measurement items to demonstrate the existence of the stereotype threats (Shapiro, 2011a; Shapiro, 2011b, Shapiro, 2012; Shapiro & Neuberg, 2007).

The first dimension is the target of stereotype threat, which refers to whether the stereotyping judgments are targeting the individual or the group. In other words, are the individuals concerned that their performance reflects poorly upon their own abilities or upon their group’s abilities? The second dimension, the source of the judgment of stereotype threat, refers to who is judging the stigmatized individual’s actions. This can be either A) the stigmatized individuals’ judgment of themselves, thus fearing that their actions confirm the stereotype in their own mind; B) the outgroup members who do not possess the stigmatized...
identity, thus reflecting to others who may not be familiar with the stigmatized group that the stereotype is valid and applicable to the group; or C) the ingroup members who share the same stigmatized identity, thus showing others who also possess the stigmatized identity that the stereotype may be valid or applicable to their own group. Stereotype threat originating from the ingroup may be especially impactful for individuals who view themselves as mentors or role models to others in their group, and who may be concerned with how their actions are perceived by others with the same stigmatized identity.

Thus, the Multi-Threat Framework may be a more comprehensive measure of stereotype threat than traditional measures because it takes into account multiple sources and multiple targets of stereotype threat. This may be particularly impactful when measuring stereotype threat with a stigmatized identity that may be concealed from others, and consequently concealed individuals may not worry about their behavior reflecting poorly upon the group’s reputation or the concealed individual may not fear confirming stereotype threat to anyone else besides himself or herself. Additionally, the current demographic may be particularly suited to test the entire framework. In the only formal test of the measure used in the Multi-Threat Framework literature, Shapiro (2011) did not use the other-as-source threat scales because some of the minority groups used in the study (ethnic and religious minorities) were not expected to make judgments about their own ingroup members. However, with sexual minorities, this may not be the case. The wide range of stereotypes and subcultures within the gay and lesbian communities has also attributed to a lack of solidarity within sexual minorities as a whole (Hequembourg & Braillier, 2009). Recall the previously described study which found that gay men might form judgments and criticize other sexual minorities who embrace different gender roles or behaviors than themselves (Hequembourg & Braillier, 2009). The categorization of sexual minorities is
broad, thus it is possible that some sexual minorities may make stereotyping judgments regarding other sexual minorities. In other words, it is feasible for stereotype threat to originate from other ingroup members (e.g., lesbian women making stereotyping judgments about gay men, or vice versa). Thus, the entire measure (with six stereotype threats) can be used in the current study. The current study examined the unique incremental variance of the Multi-Threat Framework on both job satisfaction and perceived stress as compared to perceived discrimination, as well as directly comparing the unique variance explained in job satisfaction and perceived stress as compared to the traditional measure of stereotype threat.

**Hypothesis 6A**

The multi-threat framework measure of stereotype threat explains incremental variance in job satisfaction beyond what can be explained by perceived discrimination alone.

**Hypothesis 6B**

The multi-threat framework measure of stereotype threat explains incremental variance in perceived stress beyond what can be explained by the perceived discrimination alone.

**Hypothesis 7A**

The multi-threat framework measure of stereotype threat explains incremental variance in job satisfaction beyond what can be explained by the traditional measure of stereotype threat alone.

**Hypothesis 7B**

The multi-threat framework measure of stereotype threat explains incremental variance in perceived stress beyond what can be explained by the traditional measure of stereotype threat alone.
Additionally, the originally proposed moderated mediation (hypothesis 4) will be tested using the presumably more comprehensive model of stereotype threat, the Multi-Threat Framework.

**Hypothesis 8**

Controlling for the effects of concealing, the relationship between stereotype threat and job stress is moderated by internalized homophobia such that the relationship between stereotype threat and perceived stress is higher for individuals who have higher internalized homophobia than individuals who have lower internalized homophobia.
CHAPTER THREE: METHOD

Participants

The current study distributed an online survey to participants recruited through Qualtrics, an international survey technology provider specializing in online survey research for both academic and industry purposes. The study participants were invited to participate by way of a Qualtrics Survey Panel, and compensated $10 for their participation. A Qualtrics survey manager monitored the collection of data such that only completed surveys were kept for analysis, and data collection stopped once the quota of 150 participants was completed. To ensure quality control, Qualtrics embedded three questions into the survey to ensure that participants were paying attention to the questions being asked (e.g., “Control Question: Please select At least once a week for this line”). Thus, Qualtrics was able to discard of surveys in which participants indiscriminately selected answers without reading the survey items. Thus, the final sample provided by Qualtrics to the researcher was comprised of 150 full-time employed sexual minorities from various career fields across 36 states in the United States.

Qualtrics also managed the eligibility screening questions. Three screening questions at the beginning of the survey were used to establish eligibility criteria for participation. These three criteria were with regards to sexual orientation, employment status, and sexual orientation disclosure status at work (which was a selection question for the quota of concealing versus non-concealing participants). Failure to meet any of the eligibility or selection requirements resulted in the conclusion of the survey. First, participants reported their sexuality using the 1-item sexual orientation measure (Kinsey Heterosexual-Homosexual Scale). Response choices ranged from 0 (exclusively heterosexual) to 6 (exclusively homosexual). Participants were permitted to continue with participation in the survey if they selected greater than a score of four (predominantly...
homosexual but more than incidentally heterosexual) for this item. The answer choices also included a description of what each choice meant (see Appendix A). Second, participants were asked to report the number of hours they worked per week in response to “What is your current employment status?” Answer choices included “working- 32+ hours per week”, “working- less than 32 hours per week”, and various reasons for not working (e.g., retired, disabled, laid off, etc.). Only participants who reported that they were employed more than 32 hours per week were allowed to continue with the survey. Those who did not meet eligibility requirements were thanked for their time and the survey was terminated. Lastly, disclosure at work was measured by a one-item measure (Degree of Disclosure Scale; Ragins et al., 2007), which asked “At work, have you disclosed your sexual orientation to:” followed by a four-point scale. The four choices were having disclosed to 1 (no one), 2 (some people), 3 (most people), or 4 (everyone). Similar to the procedure followed by Ragins and colleagues (2007), the variable was dichotomized such that individuals who reported they disclosed to “no one” or to only “some people” at work were categorized as concealed, whereas individuals who reported they disclosed to “most people” or to “everyone” were categorized as not-concealed (i.e., “out”). Qualtrics ensured that an equal number of concealed and non-concealed participants were included in the final sample by cutting off participation for individuals who were part of the group that reached its sampling quota early. In other words, half of the sample (N = 75) concealed their sexual orientation at work to all or most of their coworkers, and half (N = 75) were out at work regarding their sexual orientation to all or most of their coworkers. The final sample consisted of 90 males and 60 females. Half of the men (N = 45) and women (N = 30) reported concealing their sexual orientation at work, and half (45 men and 30 women) reported being out in the workplace. This equal number of men and
women collected in the sample between the concealing and non-concealing groups was coincidental.

**Procedure**

The survey was administered entirely online at the discretion of the participants, to accommodate their schedules. The survey began with the eligibility questions described above (i.e., sexual orientation, employment status, and disclosure at work). The demographics questionnaire (see Appendix B) was presented next, which contained questions regarding age, sex, occupation, state of residence, relationship status, etc. A mental imagery task was used next, which has been successfully used in previous studies to induce stereotype threat (e.g., Ackerman, Goldstein, Shapiro, & Bargh, 2009). For this task, participants were given two open ended questions which asked them to write 1) about the stereotypes that may exist about their group and 2) write about a situation in which they feared they might confirm a negative stereotype about sexual minorities in the workplace. This allowed the survey to take a tailored approach for each participant, rather than forcing the elicitation of a specific stereotype that may or may not be applicable to each participant’s specific workplace environment. The open ended questions in the mental imagery technique also allowed the current study to collect qualitative responses regarding the types of stereotypes that individuals fear confirming in the workplace as well as descriptions of situations where they personally experienced stereotype threat. The mental imagery questions were followed by two stereotype threat measures (traditional measure followed by the Multi-Threat Framework measure), perceived discrimination measure, job satisfaction measure, perceived stress measure, and the internalized homophobia measure. The survey concluded with a debriefing statement which again linked participants to the principal investigator’s email address.
Measures

Sexual Orientation

Sexual orientation was measured in the current study using the Kinsey Heterosexual-Homosexual Scale (see Appendix A), ranging from 0 (exclusively heterosexual) to 6 (exclusively homosexual). The question “Please rate how you would describe your current sexuality” was followed by seven response choices. Scale anchors were 0 (“Exclusively heterosexual-Individuals who make no physical contacts which result in erotic arousal or orgasm, and make no mental responses to individuals of their own sex.”) and 6 (“Exclusively homosexual-Individuals who are exclusively homosexual, both in regard to their overt experience and in regard to their mental reactions”).

Demographic measures

Demographic variables were collected regarding age, sex, gender, ethnicity, job, career field, state of residence, and whether each participant resided in an urban or rural location (see Appendix B).

Degree of Disclosure (Concealing Measure)

Participant’s disclosure of sexual orientation in the workplace was assessed using two methods: directly asking about disclosure and asking about perceived success in concealing. First, actual disclosure in the workplace was assessed using Ragins’ et al.’s (2007) one-item Degree of Disclosure measure: “At work, have you disclosed your sexual orientation to: (Please check one option): 1 (no one), 2 (some people), 3 (most people), 4 (everyone)” (p. 1110). Secondly, the current study adapted Ragin et al.’s (2007) one-item Degree of Disclosure measure to reflect each individual’s belief about having successfully concealed his/her sexual orientation rather than actual disclosure: “If you are concealed at work to most people or everyone, how
successfully do you believe you are concealing your sexual orientation at work? (Please check one option): 1 (no one suspects; i.e., I believe am completely concealed at work), 2 (some people may suspect), 3 (I suspect that everyone knows), 4 (am “out” at work/ everyone knows).” This self-reported disclosure method is similar to other measures of disclosure used in other studies, which have used them successfully (e.g., Croteau & Lark, 1995; Driscoll et al., 1996; Levine & Leonard, 1984; Ragins et al., 2007; Rostosky & Riggle, 2002; Schneider, 2004).

Stereotype Threat Measure

Stereotype threat was measured using Spencer’s (1993) eight-item Stereotype Vulnerability Scale, originally developed as part of a dissertation for a student under the supervision of Claude Steele (see Appendix C). This measure is the most widely used stereotype threat measure used in the literature, although it is most often cited from Steele and Aronson (1999), and is often modified to reflect the population or domain under investigation (e.g., Steele & Aronson, 1999, von Hippel et al., 2011; von Hippel et al., 2013). Furthermore, this measure has served as the template for several other stereotype threat measures used in research today (for a review of stereotype threat measures, see Xavier, Fritzsche, Sanz, & Smith, in press). Therefore, the measure in the results section will simply be referred to as stereotype threat, as it is traditionally referred to in publications using the same measure. The original scale was designed to measure stereotype threat in African Americans in academic testing situations (α = .67). Therefore, the items were modified to fit both the population (i.e., sexual minorities) and the environment (i.e., workplace) of the current study. For example, the item that read: “In math classes people of my gender often face biased evaluations from others,” was changed to: “In my line of work, people of my sexual orientation often face biased evaluations from others.” The scales for this measure ranged from 1 (never) to 5 (very often).
Stereotype Threats (Multi- Threat Framework)

Due to the unique population of the current study, an additional (and presumably more comprehensive) measure of stereotype threat was included. The Multi- Threat Framework measures six qualitatively distinct stereotype threats, created by distinguishing between three stereotype threat judgment sources (i.e., originating from one’s self, outgroup others, and ingroup others) and two targets of stereotype threat (i.e., one’s own reputation and the group’s reputation). Participant’s stereotype threats were assessed using Shapiro’s (2011) Multi- Threat Framework measure (see Appendix D). Three items were used to measure each of the four types of stereotype threat measured in Shapiro (2011): self-concept threat (\( \alpha = .92 \)), group-concept threat (\( \alpha = .85 \)), own-reputation threat (\( \alpha = .88 \)), group-reputation threat (\( \alpha = .79 \)); and two items were used to measure the two Ingroup-as-source items, which were not reported in Shapiro (2011a). The items were provided by Shapiro by email correspondence (see Appendix E); however no internal consistency values were available for these scales. All items were rated using a six-point scale ranging from 1 (very concerned) to 6 (not at all concerned).

The measure started with the following prompt which referred back to the mental imagery task they completed immediately prior to taking the stereotype threat measure. The question stated “Please think about your actions in the types of situations you described in the [mental imagery] task above. When you are in these types of situations to what extent are you concerned that your actions…” (Shapiro, 2011, p. 470). Because the original publication with this measure examined four different stigmatized populations, the items in the original measure were open ended to fill with the target population. For example, self-concept threat was “. . . to what extent are you concerned that your actions will lead you to see yourself as actually possessing the negative stereotype that others have about people who are/have [__]?” (Shapiro,
Thus, the items were all adapted to fit the current population by inserting sexual minorities into the item. A sample item for a self-concept threat is as follows: “…will lead you to see yourself as actually possessing the negative stereotype that others have about people who are sexual minorities?”; and a sample item for group-reputation threat is as follows: “…might confirm the negative stereotypes in the minds of others (non-sexual minority) about people who are sexual minorities?”

**Perceived Discrimination**

Each participant’s perceived experience with discrimination as a result of sexual orientation was assessed using Ragins and colleagues (2007) seven-item measure of Perceptions of Past Workplace Discrimination (see Appendix E). This measure was designed to specifically address discrimination based on sexual orientation, and thus no alternations to the original measure were needed for the current study. A sample item from the Perceptions of Past Workplace Discrimination measure is as follows: “In prior positions, have you ever resigned from a job in part or because of discrimination based on sexual orientation?” Responses choices are as follows: 2 (yes), 1 (unsure), or 0 (no). The sum of the seven items yields a score ranging from 0 to 14, with higher values indicating greater perceived discrimination as a result of sexual orientation.

**Job Satisfaction**

Each participant’s job satisfaction was assessed using Spector’s (1994) 36-item Job Satisfaction Survey (JSS; see Appendix F). This job satisfaction measure has nine-subscales. A sample item from the four-item satisfaction regarding pay subscale (α = .75) is as follows: “I feel I am being paid a fair amount for the work I do.” A sample item from the four-item promotion subscale (α = .73) is as follows: “Those who do well on the job stand a fair chance of being
promoted.” A sample item from the four-item supervision subscale ($\alpha = .82$) is as follows: “My supervisor is unfair to me.” A sample item from the four-item fringe benefits subscale ($\alpha = .73$) is as follows: “I am not satisfied with the benefits I receive.” A sample item from the four-item contingent rewards subscale ($\alpha = .76$) is as follows: “There are few rewards for those who work here.” A sample item from the four-item operating procedures subscale ($\alpha = .62$) is as follows: “Many of our rules and procedures make doing a good job difficult.” A sample item from the four-item coworkers subscale ($\alpha = .60$) is as follows: “I find I have to work harder at my job because of the incompetence of people I work with.” A sample item from the four-item nature of work subscale ($\alpha = .78$) is as follows: “I sometimes feel my job is meaningless.” Lastly, a sample item from the four-item communication subscale ($\alpha = .71$) is as follows: “Communications seem good within this organization.” Score values range from 1 (strongly disagree) to 6 (strongly agree), with about half the items reverse scored. Higher overall mean scores indicate greater job satisfaction.

**Perceived Stress**

Each participant’s stress was assessed using Cohen, Kamarck, and Mermelstein’s (1983) four-item Perceived Stress Scale (see Appendix G). This measure originally consisted of ten items; however, the developers (Cohen et al., 1983) found that a four-item version of the measure still had adequate internal consistency, which has been supported by recent studies as well ($\alpha = .83$; Balsam, Lehavot, Beadnell, & Circo, 2010). Additionally, the measure was adapted to the current study’s work context by adding the phrase “at work” where appropriate. An example item for this measure was “In the last month, how often have you felt difficulties at work were piling up so high that you could not overcome them?” Score values range from 1
(never) to 5 (very often), with higher mean scores indicating higher levels of perceived stress in the workplace.

**Internalized Homophobia**

Each participant’s internalized homophobia was measured using Herek, Cogan, Gillis, and Glunt’s (1997) measure of Internalized Homophobia Scale (see Appendix H). This measure had 9 items, which were worded specifically for female or male participants (i.e., women received a version which used the terms “women” and “lesbian”, whereas men received a version which used the terms “gay” or “men” in the item). Internal consistency values were reported to be acceptable (Female $\alpha = .71$, Male $\alpha = .83$; Herek et al., 2007). A sample item is “I wish I weren’t lesbian”. Score values ranged from 1 (strongly disagree) to 5 (strongly agree), and the items were totaled to produce a mean score with higher values reflecting higher levels of internalized homophobia.
CHAPTER FOUR: RESULTS

General Findings

Means and standard deviations for all study variables are listed in Table 1, as well as $t$-test results indicating whether there were significant differences in the means between concealing and non-concealing sexual minorities in the workplace, thus addressing the research question of whether there were significant differences between concealed and non-concealed sexual minorities. Thus, results indicated that there were no significant differences on any of the study variables (Table 1). The means for the total current sample were similar to other studies using the same measures. For example, the mean of job satisfaction in current study is 4.16 out of a possible score of 6, whereas the mean (according to Spector, who has collected over nearly 150 samples from other studies which have used his measure) is 3.85 out of 6 (Spector, 2011). However one notable difference was with regards to the Perceived Stress Scale (Cohen et al., 1983). The participants in the current study reported more perceived stress (2.52 out of a possible score of 5) than the perceived stress scores of other minority groups such as African Americans reported in previous research (mean = 1.47 out of a possible score of 5; Cohen & Williamson, 1988).
Table 1: Means and Standard Deviation for All Study Variables

<table>
<thead>
<tr>
<th></th>
<th>Total Sample</th>
<th>Out</th>
<th>Concealed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean  SD</td>
<td>Mean  SD</td>
<td>Mean  SD</td>
</tr>
<tr>
<td>Perceived Discrimination</td>
<td>3.47 3.96</td>
<td>3.83 4.21</td>
<td>3.12 3.70</td>
</tr>
<tr>
<td>Stereotype Threat</td>
<td>2.50 .66</td>
<td>2.41 .66</td>
<td>2.59 .64</td>
</tr>
<tr>
<td>Multi-Threat Framework</td>
<td>2.50 1.25</td>
<td>2.38 1.23</td>
<td>2.65 1.25</td>
</tr>
<tr>
<td>Internalized Homophobia</td>
<td>1.68 .75</td>
<td>1.57 .76</td>
<td>1.79 .74</td>
</tr>
<tr>
<td>Job Satisfaction</td>
<td>4.16 .95</td>
<td>4.20 .96</td>
<td>4.11 .94</td>
</tr>
<tr>
<td>Perceived Stress</td>
<td>2.52 .80</td>
<td>2.48 .78</td>
<td>2.56 .82</td>
</tr>
</tbody>
</table>

Note. t-test of difference between out and concealed, df = 148. * = p < .05; ** = p < .01.

The correlations and intercorrelations of the study variables, along with the coefficient alpha values (in the diagonal), are displayed in Table 2 for the total sample. All of the variables had acceptable internal consistency values (above α = .70; Nunnally & Berstein, 1994), with the exception of two measures. Firstly, one of the subscales of job satisfaction (operating procedures), had lower than acceptable levels of internal consistency (α = .54), however one item was removed to increase the internal consistency of the subscale to α = .70. The operating procedures item that was removed was “My efforts to do a good job are seldom blocked by red tape.” Secondly, the Stereotype Vulnerability Scale had a low internal consistency (α = .63), however this value was similar to the original measure’s reported internal consistency (α = .67).
Zero-order correlations revealed that both perceived discrimination and stereotype threat measures were significantly correlated with all of the negative experiences at work (see Table 2) and in the expected directions. The correlations in Table 2 show that both perceived discrimination ($r = -.30$), stereotype threat ($r = -.38$), and the Multi-Threat Framework ($r = -.27$) are significantly and negatively related to job satisfaction, such that the greater the amount of perceived discrimination or stereotype threat that individuals experience, the more likely they will experience reduced job satisfaction. Perceived discrimination, stereotype threat, and the Multi-Threat Framework are also positively and significantly related to stress, such that the more perceived discrimination or stereotype threat is experienced, the more likely such individuals will experience greater perceived stress.

Additionally, the correlation between the traditional stereotype threat measure and the Multi-Threat Framework was ($r = .47$, $p < .001$). The Multi-Threat Framework measure is presumed to be a more inclusive and comprehensive measure of stereotype threat because it measures stereotype threats that originate from three different sources (i.e., the self, outgroup others, and ingroup others) as well as the targets of the threat (i.e., self-targeting or group-targeting threats); thus, the Multi-Threat Framework should theoretically be measuring both the construct of the traditional measure in addition to stereotype threats that are not measured by the traditional measure (c.f. Shapiro & Neuberg, 2007). The measures do indeed appear to be measuring a similar construct due to the significant correlation between the two measures; however, the correlation is lower than would be expected if they were measuring the exact same construct space. Thus, the Multi-Threat Measure may indeed be capturing more of the construct of stereotype threat in its measure, or may be capturing a different construct than stereotype threat.
Table 2: Correlation of All Model Variables for Total Sample

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Perceived Discrimination</td>
<td>.81</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Stereotype Threat</td>
<td>.37**</td>
<td>.63</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. MTF Total</td>
<td>.41**</td>
<td>.47**</td>
<td>.97</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Internalized Homophobia</td>
<td>.04</td>
<td>.24**</td>
<td>.43**</td>
<td>.89</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Actual Concealing</td>
<td>-.09</td>
<td>.14</td>
<td>.11</td>
<td>.14</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Job Satisfaction</td>
<td>-.30**</td>
<td>-.38**</td>
<td>-.27**</td>
<td>-.11</td>
<td>-.05</td>
<td>.95</td>
<td></td>
</tr>
<tr>
<td>7. Perceived Stress</td>
<td>.23**</td>
<td>.41**</td>
<td>.31**</td>
<td>.23**</td>
<td>.05</td>
<td>-.64**</td>
<td>.74</td>
</tr>
</tbody>
</table>

*NOTE: N = 150 * p < .05, ** p < .01; Values on diagonal represent the internal consistency values found in the current study. Actual concealing and belief in concealing were one item measures, and thus do not have internal consistency values.*
Hypothesis 1

A Pearson’s correlation was used to examine the relationship between stereotype threat and job satisfaction (Table 2). The results suggest that there is indeed a significant negative correlation between stereotype threat and job satisfaction $r = -.38, p < .001$.

Hypothesis 2

Hypothesis 2 examined the relationship for stereotype threat and job satisfaction as mediated by stress. A simple mediation analysis was performed using ordinary least squares analysis using the Process extension software for SPSS (version 2.11, released 15 February 2014) developed by Dr. Andrew F. Hayes (Hayes, 2013). The results indicated that stereotype threat indirectly influenced job satisfaction through its effect on perceived stress in the workplace (Table 3). The overall model was found to be significant, $F (2, 147) = 54.73, p < .001$. Participants who experienced greater stereotype threat also experienced greater perceived stress ($b = .50, p < .001, 95\% CI = .32$ to $.68$), and greater perceived stress was negatively related to job satisfaction ($b = -.69, p < .001, 95\% CI = -.85$ to $- .53$). A bias-corrected bootstrap 95% confidence interval for the indirect effect ($b = -.34, SE = .09$) using 1,000 bootstrap samples was $-.53$ to $-.19$, which indicated that there was a significant indirect effect of stereotype threat on job satisfaction through perceived stress in addition to the significant direct effect of stereotype threat on job satisfaction. A direct effect between stereotype threat and job satisfaction was also found. A bias-corrected bootstrap 95% confidence interval for the indirect effect ($b = -.21, SE = .10$) using 1,000 bootstrap samples was $-.41$ to $-.02$, which indicated that there was a significant direct effect of stereotype threat on job satisfaction through perceived stress in addition to the significant direct effect of stereotype threat on job satisfaction.
Hypothesis 3

Hypothesis 3 examined the relationship for stereotype threat and job satisfaction as mediated by stress, and controlling for concealing. A simple mediation analysis was performed using ordinary least squares analysis using the Process extension software for SPSS. The results indicated that stereotype threat indirectly influenced job satisfaction through its effect on perceived stress in the workplace (Table 4). Participants who experienced greater stereotype threat also experienced greater perceived stress ($b = .50, p < .001, 95\% CI = .32$ to $.68$), and greater perceived stress was negatively related to job satisfaction ($b = -.69, p < .001, 95\% CI = -.85$ to -.53). The overall model was found to be significant, $F (3, 146) = 36.24, p < .001$. A bias-corrected bootstrap 95\% confidence interval for the indirect effect ($b = -.34, SE = .09$) using 1,000 bootstrap samples was -.54 to -.21, which indicated that there was a significant indirect effect of stereotype threat on job satisfaction through perceived stress in addition to the significant direct effect of stereotype threat on job satisfaction. A direct effect between stereotype threat and job satisfaction was also found. A bias-corrected bootstrap 95\% confidence
interval for the indirect effect ($b = -0.21, \ SE = 0.10$) using 1,000 bootstrap samples was -0.41 to -0.01, which indicated that there was a significant direct effect of stereotype threat on job satisfaction through perceived stress in addition to the significant direct effect of stereotype threat on job satisfaction.

Table 4: Relationship between Stereotype Threat (Operationalized Using the Stereotype Vulnerability Scale) and Job Satisfaction, Mediated by Perceived Stress and Controlling for Concealing

<table>
<thead>
<tr>
<th></th>
<th>Perceived Stress</th>
<th>Job Satisfaction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$b$</td>
<td>$SE$</td>
</tr>
<tr>
<td>Constant</td>
<td>1.28</td>
<td>0.24</td>
</tr>
<tr>
<td>Stereotype Threat</td>
<td>0.50</td>
<td>0.09</td>
</tr>
<tr>
<td>Concealing</td>
<td>-0.01</td>
<td>0.12</td>
</tr>
<tr>
<td>Perceived Stress</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

$R^2 = 0.17$  
$F (2, 147) = 14.92**$

$R^2 = 0.43$  
$F (3, 146) = 36.24**$

Note. $b$ = unstandardized regression coefficients. $N = 150$, * $p < .05$, ** $p < .01$
Moderated mediation

A first stage moderation model (a type of moderated meditation) analysis was performed to analyze Hypothesis 3 according to the theoretical processes outlined in Edwards and Lambert (2007), and using the Process software (version 2.11, released 15 February 2014) developed by Dr. Andrew F. Hayes (Hayes, 2013). The Process software, which is an extension of SPSS, allows users to run various complex models involving multiple moderators and mediators within the same analysis; thus allowing for a full test of the model rather than a piecemeal approach of analyzing the individual parts of the model and making inferences regarding the entire model (c.f. Hayes, in press; Hayes, 2013; Preacher, Rucker, & Hayes, 2007). The test of the moderated mediation hypothesis resulted in two regressions. The first regression (i.e., the mediator model) represents the mediator variable (M) regressed upon the predictor variable (X), the moderator variable (W), and their interactions (X x W). The second regression (i.e., the dependent variable model) represents the outcome variable (Y) regressed upon the mediator variable (M) while controlling for the effect of the predictor variable (X). Results in the current study are presented in the format used by other researchers in the field examining moderated mediation (i.e., Hayes, in press), the unstandardized beta weights, standard deviations (in parentheses), p-values, and the $R^2$ and $F$-statistics for each of the regressions in the model.

According to Hayes (2013; in press) and other researchers (e.g., Fairchild & MacKinnon, 2009), the indirect effect of a predictor (X) on an outcome (Y) can be moderated even if moderation is not found through one of the components of the indirect effect; nor does the presence of a significant moderation effect in one of the components of the indirect effect provide evidence that there is indeed moderation in the indirect effect of X to Y. Thus, there is a need to formally test the overall model for the presence of a moderation effect. The Process
software produces an index of moderated mediation, which is a formal test of moderated mediation. Whereas current methodology used in statistical research provides a dichotomous yes/no conclusion as to whether an effect exists based on significance testing, the method proposed by Preacher et al. (2007) is based on normal-theory significance tests which recommends that bootstrapped confidence intervals be examined with 1,000 resamples and a 95% confidence interval (Preacher et al., 2007) in order to provide a more robust test of moderated mediation (i.e., we can be 95% confident that the true score lies within the confidence interval range). The bootstrapped confidence interval estimate of the index of moderated mediation reflects the magnitude of the relationship between the moderator and the indirect effect. Thus, moderated mediation is inferred in the model if the confidence interval of the index of moderated mediation does not contain zero (Hayes, 2013; in press).

**Hypothesis 4**

Hypothesis 4 examined the moderated mediated model of a relationship between stereotype threat and job satisfaction (controlling for concealing), which was expected to be mediated by perceived stress. The relationship between stereotype threat and stress was expected to be moderated by internalized homophobia. Stereotype threat was measured using the traditional stereotype threat measure (Stereotype Vulnerability Scale; Spencer, 1993; Steele & Aronson, 1999). There are two multiple regression models in Table 5. The first displays the path coefficients for the mediator model (with perceived stress as the dependent variable), and the second displays the path coefficients for the dependent variable model (with job satisfaction as the dependent variable). To test whether the relationship between stereotype threat and perceived stress was moderated by internalized homophobia, multiple regression analyses were calculated in which perceived stress was regressed upon stereotype threat, internalized homophobia, the
interaction between stereotype threat and internalized homophobia, and concealing. As can be seen from the mediator model, the overall model was significant $F (4, 145) = 11.36, p < .001$ $R^2 = .24$. Furthermore, the interaction term (stereotype threat x internalized homophobia) was significantly associated with the mediator (perceived stress), $(b = -.41, t = -3.40, p < .001)$. The second regression (i.e., the dependent variable model) represents job satisfaction regressed upon the perceived stress while controlling for the effects of stereotype threat and concealing. As can be seen in the dependent variable model, the overall model was significant $F (3, 146) = 36.24, p = .001$, $R^2 = .43$, and the mediator (perceived stress) was significantly associated with the dependent variable (job satisfaction; $b = -.69, t = -8.43, p < .001$). Furthermore, the effect between stereotype threat and job satisfaction was only partially mediated by stress. A significant direct effect of stereotype threat on job satisfaction was found ($b = -.21, p = .04$). Additionally, support for moderated mediation was found for this model ($b = .31, SE = .12$), as demonstrated by the bootstrapped 95% confidence interval of the index of moderated mediation not containing zero (.10, .60), and the significant interaction term in step 1 ($b = -.45, p < .001$). The conditional indirect effects of stereotype threat on the mediator (perceived stress) at various levels of the moderator (internalized homophobia) are listed in Table 6, which includes confidence intervals for each level of the moderator. Results show that at low and average levels of internalized homophobia, the confidence intervals do not include zero, thus displaying a significant difference in perceived stress among the different levels of stereotype threat; however, at high levels of internalized homophobia, there is no significant difference in the amount of perceived stress experienced ($b = .02, 95\% CI = -.32, .35$). Examination of the plots (Figure 1) showed that individuals with high internalized homophobia experienced the greatest amount of stress regardless of the level of stereotype threat experienced. Individuals with low levels of
internalized homophobia experience the least amount of perceived stress. As the amount of stereotype threat increases, the amount of perceived stress also increases. At high levels of stereotype threat, all participants (regardless of amount of internalized homophobia) experienced the same amount of stress. Thus, hypothesis 4 was supported.

Table 5: Hypothesis 4 Stereotype Threat using Stereotype Vulnerability Scale (X), Perceived stress, Job Satisfaction where Internalized Homophobia Moderates the Relationship between Stereotype Threat and Perceived Stress

<table>
<thead>
<tr>
<th></th>
<th>Perceived Stress (M)</th>
<th>Job Satisfaction (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$b$</td>
<td>$SE$</td>
</tr>
<tr>
<td>Constant</td>
<td>-.62</td>
<td>.62</td>
</tr>
<tr>
<td>Concealing</td>
<td>-.06</td>
<td>.12</td>
</tr>
<tr>
<td>Stereotype Threat</td>
<td>1.11</td>
<td>.23</td>
</tr>
<tr>
<td>Perceived Stress</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internalized Homophobia</td>
<td>1.39</td>
<td>.41</td>
</tr>
<tr>
<td>Internalized Homophobia x Stereotype Threat</td>
<td>-.45</td>
<td>.45</td>
</tr>
</tbody>
</table>

$R^2 = .24$  
$F (4, 145) = 11.36^{**}$  

$R^2 = .43$  
$F (3, 146) = 36.24^{**}$

Note. $b =$ unstandardized regression coefficients, with standard error in parentheses below. $N = 150$, $* p < .05$, $** p < .01$
Table 6: Conditional Indirect Effects of the Independent Variable a on the Mediator Variable b at Various Levels of the Moderator Variable c

<table>
<thead>
<tr>
<th>Mediator</th>
<th>Internalized Homophobia</th>
<th>Effect</th>
<th>SE</th>
<th>t</th>
<th>LL</th>
<th>UL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perceived Stress</td>
<td>-1 SD (1.00)</td>
<td>.66</td>
<td>.11</td>
<td>5.89**</td>
<td>.44</td>
<td>.89</td>
</tr>
<tr>
<td></td>
<td>M (1.68)</td>
<td>.36</td>
<td>.10</td>
<td>3.70**</td>
<td>.17</td>
<td>.55</td>
</tr>
<tr>
<td></td>
<td>+1 SD (2.43)</td>
<td>.02</td>
<td>.17</td>
<td>.11</td>
<td>-.32</td>
<td>.35</td>
</tr>
</tbody>
</table>

**Note.** N= 150. Bootstrap sample size = 1,000. CI = bias corrected bootstrap 95% confidence interval; LL = lower limit; UL = upper limit. a Stereotype Threat; b Perceived Stress; c Internalized Homophobia. * p < .05, ** p < .01

**Hypothesis 5A**

A hierarchical linear regression was performed to examine if stereotype threat explains incremental variance in job satisfaction beyond what can be explained by perceived discrimination alone (Table 7). Job Satisfaction was regressed on to perceived discrimination in step 1, and onto stereotype threat in step 2. Results suggest that stereotype threat ($R^2 = .18$)
predicted unique variance in job satisfaction as compared to perceived discrimination ($R^2 = .09$), $F (1, 147) = 15.51, p < .001$. Thus, Hypothesis 5A was supported.

**Hypothesis 5B**

A hierarchical linear regression was performed to examine if stereotype threat explains incremental variance in perceived stress beyond what can be explained by perceived discrimination alone (Table 7). Perceived stress was regressed on to perceived discrimination in step 1, and onto stereotype threat in step 2. Results suggest that stereotype threat ($R^2 = .18$) predicted unique variance in perceived stress as compared to perceived discrimination ($R^2 = .05$), $F (1, 147) = 21.98, p < .001$. Thus, Hypothesis 5B was supported. Furthermore, when stereotype threat was entered into the regression, perceived discrimination was no longer a significant predictor of job satisfaction, $t (147) = 1.15, p = .25$; thus suggesting that stereotype threat may mediate the relationship between perceived discrimination and perceived stress.

**Hypothesis 6A**

A hierarchical linear regression was performed to examine if the Multi-Threat Framework explains incremental variance in job satisfaction beyond what can be explained by perceived discrimination alone (Table 7). Job Satisfaction was regressed on to perceived discrimination in step 1, and onto the Multi-Threat Framework in step 2. Results suggest that stereotype threat ($R^2 = .18$) predicted unique variance in job satisfaction as compared to perceived discrimination ($R^2 = .09$), $F (1, 147) = 15.51, p < .001$. Thus, Hypothesis 6A was supported.
Hypothesis 6B

A hierarchical linear regression was performed to examine if the Multi-Threat Framework explains incremental variance in perceived stress beyond what can be explained by perceived discrimination alone (Table 7). Perceived stress was regressed on to perceived discrimination in step 1, and onto the Multi-Threat Framework in step 2. Results suggest that stereotype threat ($R^2 = .18$) predicted unique variance in perceived stress as compared to perceived discrimination ($R^2 = .05$), $F (1, 147) = 21.98, p < .001$. Thus, Hypothesis 6B was supported. Furthermore, when the Multi-Threat Framework was entered into the regression, perceived discrimination was no longer a significant predictor of perceived stress, $t (147) = 1.44, p = .15$; thus suggesting that the Multi-Threat Framework may mediate the relationship between perceived discrimination and perceived stress.
Table 7: Hypotheses 5A and 5B Comparing Stereotype Threat and Perceived Discrimination in Explaining Variance in Job Satisfaction and Stress

<table>
<thead>
<tr>
<th>DV = Job Satisfaction</th>
<th>$R^2$</th>
<th>$\Delta R^2$</th>
<th>$B$</th>
<th>$SE B$</th>
<th>$\beta$</th>
<th>$t$</th>
<th>$\Delta F$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>.09</td>
<td></td>
<td>-23.01</td>
<td>6.35</td>
<td>-.29</td>
<td>-3.84**</td>
<td>$F(1, 148) = 14.72^{**}$</td>
</tr>
<tr>
<td>Perceived Discrimination</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Step 2</td>
<td>.18</td>
<td>.09</td>
<td>-13.30</td>
<td>6.52</td>
<td>-.16</td>
<td>-2.30*</td>
<td>$F(1, 147) = 15.51^{**}$</td>
</tr>
<tr>
<td>Perceived Discrimination</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stereotype Threat</td>
<td></td>
<td></td>
<td>-16.23</td>
<td>4.08</td>
<td>-.32</td>
<td>-.32**</td>
<td></td>
</tr>
<tr>
<td>DV = Stress</td>
<td>.05</td>
<td></td>
<td>.05</td>
<td>.02</td>
<td>.23</td>
<td>2.88**</td>
<td>$F(1, 148) = 8.27^{**}$</td>
</tr>
<tr>
<td>Step 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perceived Discrimination</td>
<td>.18</td>
<td>.12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Step 2</td>
<td></td>
<td></td>
<td>.02</td>
<td>.02</td>
<td>.09</td>
<td>1.15</td>
<td>$F(1, 147) = 21.98^{**}$</td>
</tr>
<tr>
<td>Perceived Discrimination</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stereotype Threat</td>
<td>.46</td>
<td>.10</td>
<td>.38</td>
<td></td>
<td>4.69**</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note. $N = 150$, * $p < .05$, ** $p < .01$
Table 8: Hypotheses 6A and 6B Comparing the Multi-Threat Framework and Perceived Discrimination in Explaining Variance in Job Satisfaction and Stress

<table>
<thead>
<tr>
<th></th>
<th>$R^2$</th>
<th>$\Delta R^2$</th>
<th>$B$</th>
<th>$SE B$</th>
<th>$\beta$</th>
<th>$t$</th>
<th>$\Delta F$</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DV = Job Satisfaction</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Step 1</td>
<td>.09</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perceived Discrimination</td>
<td></td>
<td></td>
<td></td>
<td>.02</td>
<td>-.30</td>
<td>-3.84**</td>
<td>$F (1, 148) = 14.72^{**}$</td>
</tr>
<tr>
<td>Step 2</td>
<td>.12</td>
<td>.02</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perceived Discrimination</td>
<td></td>
<td></td>
<td></td>
<td>.02</td>
<td>-.23</td>
<td>-2.70**</td>
<td>$F (1, 147) = 4.02^{*}$</td>
</tr>
<tr>
<td>Multi-Threat Framework</td>
<td></td>
<td></td>
<td></td>
<td>.07</td>
<td>-.17</td>
<td>-2.00</td>
<td></td>
</tr>
<tr>
<td><strong>DV = Stress</strong></td>
<td>.05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Step 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perceived Discrimination</td>
<td></td>
<td></td>
<td></td>
<td>.02</td>
<td>.23</td>
<td>2.88**</td>
<td>$F (1, 148) = 8.27^{**}$</td>
</tr>
<tr>
<td>Step 2</td>
<td>.11</td>
<td>.06</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perceived Discrimination</td>
<td></td>
<td></td>
<td></td>
<td>.02</td>
<td>.12</td>
<td>1.44</td>
<td></td>
</tr>
<tr>
<td>Multi-Threat Framework</td>
<td></td>
<td></td>
<td></td>
<td>.06</td>
<td>.26</td>
<td>3.02**</td>
<td></td>
</tr>
</tbody>
</table>

Note. $N = 150$, * $p < .05$, ** $p < .01$
Hypothesis 7A

A hierarchical linear regression was performed to examine if the Multi-Threat Framework explains incremental variance in job satisfaction beyond what can be explained by perceived the traditional measure of stereotype threat (Table 8). Job Satisfaction was regressed on to perceived the traditional measure of stereotype threat in step 1, and onto the Multi-Threat Framework in step 2. Results suggest that the Multi-Threat Framework ($R^2 = .16$) did not predict unique variance in job satisfaction as compared the traditional measure of stereotype threat ($R^2 = .15$), $F (1, 147) = 1.62, p = .21$. Thus, Hypothesis 7A was not supported.

Hypothesis 7B

A hierarchical linear regression was performed to examine if the Multi-Threat Framework explains incremental variance in perceived stress beyond what can be explained by the traditional measure of stereotype threat (Table 8). Perceived stress was regressed on to the traditional measure of stereotype threat in step 1, and onto the Multi-Threat Framework in step 2. Results suggest that the Multi-Threat Framework did not predict unique variance ($R^2 = .19$) in perceived stress as compared to the traditional measure of stereotype threat ($R^2 = .17$), $F (1, 147) = 3.11, p > .05$. Thus, Hypothesis 7B was not supported.
Table 9: Hypotheses 7A and 7B Comparing the Multi-Threat Framework and Perceived Discrimination in Explaining Variance in Job Satisfaction and Stress

<table>
<thead>
<tr>
<th>DV = Job Satisfaction</th>
<th>$R^2$</th>
<th>$\Delta R^2$</th>
<th>$B$</th>
<th>$SE B$</th>
<th>$\beta$</th>
<th>$t$</th>
<th>$\Delta F$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>.15</td>
<td></td>
<td>-.55</td>
<td>.11</td>
<td>-.38</td>
<td>-.506**</td>
<td>$F (1, 148) = 25.62^{**}$</td>
</tr>
<tr>
<td>Stereotype Threat</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Step 2</td>
<td>.16</td>
<td>.01</td>
<td>-.48</td>
<td>.12</td>
<td>-.33</td>
<td>-3.88**</td>
<td>$F (1, 147) = 1.62$</td>
</tr>
<tr>
<td>Stereotype Threat</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-Threat Framework</td>
<td></td>
<td></td>
<td>-.08</td>
<td>.07</td>
<td>-.11</td>
<td>-1.27</td>
<td></td>
</tr>
<tr>
<td>DV = Stress</td>
<td>.17</td>
<td></td>
<td>.50</td>
<td>.09</td>
<td>.41</td>
<td>5.48**</td>
<td>$F (1, 148) = 30.04^{**}$</td>
</tr>
<tr>
<td>Step 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stereotype Threat</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Step 2</td>
<td>.19</td>
<td>.02</td>
<td>.41</td>
<td>.10</td>
<td>.34</td>
<td>4.04**</td>
<td>$F (1, 147) = 3.11$</td>
</tr>
<tr>
<td>Stereotype Threat</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-Threat Framework</td>
<td></td>
<td></td>
<td>.10</td>
<td>.05</td>
<td>.15</td>
<td>1.76</td>
<td></td>
</tr>
</tbody>
</table>

Note. $N = 150$, * $p < .05$, ** $p < .01$
Hypothesis 8

Hypothesis 8 examined the moderated mediated model of a relationship between the Multi-Threat Framework and job satisfaction (controlling for concealing), which was expected to be mediated by perceived stress. The relationship between stereotype threat and stress was expected to be moderated by internalized homophobia. The Multi-Threat Framework is proposed to be a more inclusive test of stereotype threat because it measures six types of stereotype threat, (Shapiro & Neuberg, 2007). There are two multiple regression models in Table 9. The first displays the path coefficients for the mediator model (with perceived stress as the dependent variable), and the second displays the path coefficients for the dependent variable model (with job satisfaction as the dependent variable). To test whether the relationship between the Multi-Threat Framework and perceived stress was moderated by internalized homophobia, multiple regression analyses were calculated in which perceived stress was regressed upon the Multi-Threat Framework, internalized homophobia, and their interactions. As can be seen from the mediator model, the overall model was significant $F (4, 145) = 5.03, p < .001 R^2 = .12$. The interaction term (the Multi-Threat Framework x internalized homophobia) was not significantly associated with the mediator (perceived stress), ($b = -.11, p = .13$). The second regression (i.e., the dependent variable model) represents job satisfaction regressed upon the perceived stress while controlling for the effect of the Multi-Threat Framework and concealing. As can be seen in the dependent variable model, the overall model was significant $F (3, 146) = 34.42, p < .001, R^2 = .42$, and the mediator (perceived stress) was significantly associated with the dependent variable (job satisfaction; $b = -.73, p < .001$). Furthermore, the effect between the Multi-Threat Framework and job satisfaction was completely mediated by stress, as indicated by the lack of a significant direct effect of the Multi-Threat Framework on job satisfaction ($b = -.06, p = .26$).
Additionally, support for moderated mediation was not supported for this model \( (b = .08, \ SE = .05) \), as demonstrated by the bootstrapped 95% confidence interval of the index of moderated mediation containing zero \((- .02, .16)\), and the lack of a significant interaction term in step 1 \( (b = -.12, p = .13) \). The conditional indirect effects of the Multi-Threat Framework on perceived stress at various levels of the moderator (internalized homophobia) are listed in Table 11, which also includes confidence intervals for each level of the moderator. Results show that at low and average levels of internalized homophobia, the confidence intervals do not include zero, thus displaying a significant difference in perceived stress among different amounts of Multi-Threat Framework stereotype threat; however, at high levels of internalized homophobia, there is no significant difference in the amount of perceived stress experienced \( (b = .08, 95\% CI = -.07, .23) \). Examination of the plots (Figure 2) showed a similar trend as in Hypothesis 4, however the interaction was not statistically significant. Thus, hypothesis 8 was not supported.

Table 10: Hypothesis 8 Stereotype Threat using the Multi-Threat Framework, Perceived stress, Job Satisfaction where Internalized Homophobia Moderates the Relationship between Multi-Threat Framework and Perceived Stress

<table>
<thead>
<tr>
<th></th>
<th>Perceived Stress (M)</th>
<th>Job Satisfaction (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>( b )</td>
<td>( SE )</td>
</tr>
<tr>
<td>Constant</td>
<td>1.40</td>
<td>.37</td>
</tr>
<tr>
<td>Concealing</td>
<td>-.03</td>
<td>.13</td>
</tr>
<tr>
<td>Multi-Threat Framework</td>
<td>.34</td>
<td>.13</td>
</tr>
<tr>
<td>Perceived Stress</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internalized Homophobia</td>
<td>.46</td>
<td>.24</td>
</tr>
<tr>
<td>Internalized Homophobia x Multi-</td>
<td>-.12</td>
<td>.13</td>
</tr>
<tr>
<td>Threat Framework</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\[ R^2 = .12 \]
\[ F (4, 145) = 5.03^{**} \]
\[ R^2 = .41 \]
\[ F (3, 146) = 34.42^{**} \]

Note. \( b = \) unstandardized regression coefficients, with standard error in parentheses below. \( N = 150, * p < .05, ** p < .01 \)
Figure 2: Moderated Mediation of Job Satisfaction with Multi-Threat Framework, Perceived Stress (Mediator), and Internalized Homophobia (Moderator).

Table 11: Conditional Indirect Effects of the Independent Variable \( a \) on the Mediator Variable \( b \) at Various Levels of the Moderator Variable \( c \)

<table>
<thead>
<tr>
<th>Mediator</th>
<th>Internalized Homophobia</th>
<th>Effect</th>
<th>SE</th>
<th>( t )</th>
<th>95% CI</th>
<th>LL</th>
<th>UL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perceived Stress</td>
<td>-1 SD (1.00)</td>
<td>.23</td>
<td>.07</td>
<td>3.24**</td>
<td>.09</td>
<td>.38</td>
<td></td>
</tr>
<tr>
<td></td>
<td>( M ) (1.68)</td>
<td>.16</td>
<td>.06</td>
<td>2.94**</td>
<td>.05</td>
<td>.27</td>
<td></td>
</tr>
<tr>
<td></td>
<td>+1 SD (2.43)</td>
<td>.08</td>
<td>.08</td>
<td>1.07</td>
<td>-.07</td>
<td>.23</td>
<td></td>
</tr>
</tbody>
</table>

*Note. \( N = 150 \). Bootstrap sample size = 1,000. CI = bias corrected bootstrap 95% confidence interval; LL = lower limit; UL = upper limit. \( a \) Multi-Threat Framework; \( b \) Perceived Stress; \( c \) Internalized Homophobia. * \( p < .05 \), ** \( p < .01 \)*
CHAPTER FIVE: DISCUSSION

Stereotype threat has been shown to be a powerful influence on students in academic and testing situations; however, its utility in organizational settings has not been clearly demonstrated. This has led to industrial and organizational psychologists questioning the usefulness of the construct in workplace settings (Kalokerinos, von Hippel, & Zacher, in press). When examining the predictors of negative outcomes, such as job satisfaction, diversity researchers usually study the influence of discrimination in the workplace (Ensher et al., 2001; Moyes et al., 2000; Orpen, 1995; Velez et al., 2013). However, results from the current study suggest that exploring stereotype threat and stereotype threat in the workplace might also be worthwhile.

Overall, the model proposed was supported for several hypotheses. First, hypothesis 1 demonstrated a significant relationship between stereotype threat and job satisfaction. Second, hypothesis 2 demonstrated that the relationship between stereotype threat and job satisfaction is mediated by stress; and hypothesis 3 demonstrated that the mediated relationship found in hypothesis 3 was still significant even after controlling for concealing.

Figure 3: Moderated Mediation
Third, hypothesis 4 (Figure 3) demonstrated that the relationship between stereotype threat and perceived stress (in the mediated relationship of hypothesis 4, controlling for concealing) was moderated by internalized homophobia such that as internalized homophobia increased, the amount of stereotype threat also increased. Additionally, at high levels of stereotype threat, everyone experienced high levels of perceived stress regardless of the amount of internalized homophobia they experienced. Additionally, the relationship between stereotype threat and job satisfaction was partially mediated by perceived stress. This supports previous research by von Hippel et al. (2011) which found that the relationship between stereotype threat and job satisfaction was partially mediated by decreased confidence in their career prospects, as well as separation from their group identity. The authors posited that the partial mediation found in their study indicated that another variable may also partially mediate the relationship between stereotype threat and job satisfaction; namely perceived stress. The current study provides some support for this notion. However, this moderated mediation relationship was not supported for hypothesis 4, which used the Multi-Threat Framework as the operationalization of stereotype threat. This is particularly interesting because the Multi-Threat Framework is proposed to be a more inclusive measure of stereotype threat, yet the correlation between the traditional measure and the Multi-Threat measure was moderate ($r = .47$), and the Multi-Threat Framework did not fit in the proposed model as well as the traditional measure of stereotype threat. Additionally, hypothesis 7A and 7B showed that the Multi-Threat Framework did not predict any unique variance in job satisfaction or perceived stress beyond what was explained by the traditional measure; thus hypothesis 7A and 7B were not supported.

The findings of hypotheses 7A and 7B implies that the Multi-Threat Framework may not be measuring a different construct than the traditional measure of stereotype threat. Although conceptually, the Multi-Threat Framework should measure unique variance beyond what is
explained by the traditional measure, because the Multi-Threat Framework purportedly measures more types of stereotype threat than traditional measures, the measurement items themselves may have been too similar to each other (as indicated by the internal consistency of $\alpha$ of .97). Participants may have just reported the same value for all items in the measure because of the number of items as well. The Multi-Threat Framework items were much more lengthy and numerous than the traditional measure of stereotype threat used in other studies (i.e., the Stereotype Vulnerability measure). As previously mentioned, the traditional measure was developed by one of Claude Steele’s students (Spencer, 1997) and has been used in Steele’s work ever since, and modified by other researchers for use in other populations and testing domains (e.g., Steele & Aronson, 1999, von Hippel et al., 2011; von Hippel et al., 2013). For a review of stereotype threat measures, see Xavier, Fritzche, Sanz, and Smith (in press). The Multi-Threat Framework measure has only been used in one other study to date (Shapiro, 2011). The current study suggests that the measure of the Multi-Threat Framework needs more refining before it is used in future research; however, conceptually the framework has potential for future research as a measure of threats that originate from different sources and targets either the self or group reputation.

Fourth, hypotheses 5A, 5B, 6A, and 6B were supported, and demonstrated that the stereotype threat measures explained unique variance in both job satisfaction and perceived stress above and beyond what was explained by perceived discrimination. Perceived discrimination is often measured in organizational contexts as a measure of organizational climate, however, the results of the current study suggest that stereotype threat may be an additional construct of interest in predicting either job satisfaction or perceived stress of minorities.
As described earlier, support was found for a moderated mediation model using the traditional model of stereotype threat and using internalized homophobia as a moderator, similar to what was described in the minority stress theory. Minority stress theory examines predictors related to stigmatized identities and experiences (i.e., “external stressors related to negative societal perceptions of non-heterosexual sexual identities”; Hequembourg & Braillier, 2009, p. 292). Thus, stereotype threat may be a useful predictor in the model due to the similarities in the description of the model for predictors. The study results further explicates current minority stress theory by providing evidence for a mediated relationship between stereotype threat and job satisfaction; meaning that perceived stress was the mechanism whereby those minorities experiencing stereotype threat perceived greater stress, which in turn was associated with decreased job satisfaction. Furthermore, the level of internalized homophobia moderated the relationship between stereotype threat and perceived stress. That is, those individuals having higher internalized homophobia experienced the greatest amount of stress, and this level of stress was not related to the amount of stereotype threat they experienced. Individuals with low levels of internalized homophobia experienced the least amount of perceived stress, but as the amount of stereotype threat increased, so did the amount of perceived stress. In fact, at high levels of stereotype threat, all participants, regardless of their level of internalized homophobia, experienced the same amount /level of (high) stress. This finding demonstrates that stereotype threat, by itself, is a useful in explaining workplace stress for sexual minorities. At high levels of stereotype threat, individuals experience high levels of stress, regardless of their personal feelings of acceptance regarding their sexual orientation. Therefore, organizations that actively foster inclusive environments may help reduce the stereotype threat experienced by their sexual minority workers, which can impact both stress and job satisfaction, leading to other positive
outcomes in the workplace that have been shown to increase as well (e.g., lower turnover, less absenteeism, and so on).

The results of this study showed that stereotype threat (as operationalized using the Stereotype Vulnerability Scale) was significantly and more strongly related to job satisfaction than perceived discrimination experiences were, as demonstrated by the additional 9% unique variance explained in job satisfaction after perceived discrimination was entered into the model, and more strongly related to perceived stress than perceived discrimination, as demonstrated by the additional 12% unique variance explained in perceived stress. In contrast, the Multi-Threat Framework only explained an additional 2% variance in job satisfaction beyond what perceived discrimination explained; and an additional 6% unique variance in perceived stress, beyond what perceived discrimination explained. Thus, the traditional measure appears to be a more useful measure of stereotype threat than the Multi-Threat Framework, despite what the theoretical benefits are of the framework. This notion is further supported by the lack of unique variance explained when using the Multi-Threat Framework to explain either job satisfaction or stress, beyond what is explained using the traditional measure (i.e., Hypothesis 7A and 7B).

Perhaps stereotype threat predicted job satisfaction better due to the chronic, and pervasive nature of stereotype threat; because by its nature, it is experienced by all minority members, potentially at all times, including those who have not experienced discrimination personally. Thus, because the participants in the current sample did not report having experienced much past discrimination (as demonstrated by a mean score of 3.47 out of a possible score of 14), the stereotype threat measure may have been more predictive of outcomes. Researchers have proposed that the widespread knowledge that their group is negatively perceived and discriminated against is sufficient in and of itself to increase minority members’
vulnerability to experiencing stereotype threat (Steele et al., 2002). As such, this finding study lends support for the utility of examining this construct in the workplace.

The current study expands stereotype threat theory by examining stereotype threat in an employee (non-student) sample, using a stigmatized identity that is not traditionally expected to experience stereotype threat according to the theory tenants, which state that stereotype threat may only be experienced by individuals which are identified as part of a stigmatized group (Steele et al., 2002; Shapiro & Neuberg, 2007). Interestingly, sexual minorities (both concealed and non-concealed) reported experiencing similar levels of stereotype threat, thus demonstrating that all individuals can experience stereotype threat, regardless of their ability to be identified as part of a stigmatized group. This is because the stigmatized individual knows that they are part of the group, and the experience of stereotype threat is a subjective perception of threat which may not be based upon the judgments of others. Indeed, this is one reason which the Multi-Threat Framework was expected to be a better measure of stereotype threat than traditional measures; because it can incorporate threats originating from the stigmatized individual themselves as well as from outgroup others. However, the current study did not find support that the Multi-Threat Framework was a better predictor of job satisfaction than the traditional stereotype threat measure. This may be due to measurement issues with the Multi-Threat Framework, given that the measure used in the current study is relatively new and only previously tested in one prior study (Shapiro, 2011), and the fact that the items are more lengthy and wordy than traditional measures, such as the traditional stereotype threat measured in the current study. Thus further research with the Multi-Threat Framework may be useful in the further examination of populations with unique characteristics from the traditionally studied populations in stereotype threat research (e.g., ethnic minorities); however more research and refinement of the measurement are needed.
As just mentioned, this finding provides evidence that sexual minorities gain no benefit from concealing in the workplace in terms of stereotype threat, job satisfaction, or stress. However, it was interesting to note that the current sample, as compared to a normed sample, was more stressed than other minority groups, including African Americans (Cohen & Williamson, 1988). In fact, the qualitative data obtained from the open-ended mental imagery task revealed that both concealing and non-concealing sexual minorities reported anxiety regarding the impressions that others had of them as a result of their sexual orientation. Some examples of reported stereotypic thoughts from the current study were “I sometimes worry my vocal delivery at conferences will undercut the impression I make,” “[others] might feel as if I’m attracted to them just because I am gay,” “That they party all the time, don't take work seriously and generally slack off,” “I have had times when I was really under a tremendous amount of stress and feel like I let my guard down and show some gay tendencies”, and “Being that my job is a classroom teacher, working with young children, my biggest worry about my lifestyle was and still is that I will have a parent who doesn't want me to work around their child.” Thus, the current study demonstrates that both concealing and non-concealing sexual minorities experience stereotype threat. Consequently, further research and advocacy efforts are essential for the protection of sexual minorities in employment settings, and therefore in society at large.

**Strengths, Limitations, and Future Directions**

Unlike previous research in this domain, which has mainly been conducted in academic and test environments, the current study obtained its sample exclusively from full-time, working sexual minorities from across the country, hence increasing its generalizability to a workplace sample. Although there may have been an unknown number of individuals who were so completely concealed in both their private and work lives that they would refuse to participate in an online survey, regardless of anonymity and confidentiality, this sample is likely much more
The findings of the current study indicate that stereotype threat does exist in real workplace settings, which meaningful both for research with sexual minorities and for employees in general.

The current study also contributes to the larger literature of stereotype threat theory by examining on-the-job workplace outcomes (versus testing and academic outcomes) which are not typically measured in the stereotype literature, such as job satisfaction. Job satisfaction is an important construct for organizations to consider in the workplace, as it is associated with turnover intentions, which translates to loss of diversity, talent, and the increased recruitment costs for the organization. The current study adds to the limited research demonstrating a relationship between stereotype threat and work-related outcomes such as job satisfaction and burnout (e.g., von Hippel et al.; Gomez & Wright, 2014). Greater focus on workplace outcomes may provide the impetus for researchers to further refine the measurement of stereotype threat, which several researchers have suggested is necessary in order for stereotype threat to be more widely accepted and considered in organizational contexts (Kalokerinos et al.; Xavier, Fritzsche, Sanz, & Smith, in press).

Finally, the current study also highlights some issues regarding the measurement and assessment of stereotype threat. The measure used in the current study (i.e., Stereotype Vulnerability Scale) is one of the most widely used measures in stereotype threat research. One of the potential problems with this tool, however, is that the construct assessed may conceptually be more closely related to stigma consciousness (Aronson & Inzlicht, 2004; Pinel, 1999) than to stereotype threat. In actuality, researchers have questioned whether stereotype threat and stereotype vulnerability are truly distinct constructs, given the interchanging terminology and scale items used to measure each of these in the literature (Barnard et al., 2008; Good et al., 80.
2003; Steele & Aronson, 1995; Steele et al., 2002). Other researchers have suggested that the two constructs are indeed independent (Xavier, Fritzsche, Sanz, & Smith, in press).

Theoretically, stereotype threat is caused by situational factors, whereas stigma consciousness and stereotype vulnerability are not; however most stereotype threat measures fail to account for the situational component of stereotype threat (Xavier et al., in press). Thus, further refinement of measures used both within the laboratory and in field research is warranted.

To address these concerns, the current study examined a new measure of stereotype threat (i.e., the Multi-Threat Framework measure), which has only been used in one previous study (Shapiro, 2011); however, the results did not show much improvement in the measurement of stereotype threat. The Multi-Threat Framework measure does appear to be measuring the same construct as the Stereotype Vulnerability Scale (Spencer, 1993; Steele & Aronson, 1999), as demonstrated by the similar relationships (i.e., correlations) between the two measures of stereotype threat and the various outcome measures. Nevertheless, this measure was not found to be a better predictor of job satisfaction than the shorter Stereotype Vulnerability Scale, which is traditionally used to measure stereotype threat. As previously discussed, the correlations between stereotype threat and the Multi-Threat Framework measure were not excessively high, indicating that the two measures may be measuring different aspects of the stereotype threat construct, but this must be left to future researchers at this time. Additionally, the length of the Multi-Threat Framework measure may limit its applicability in field settings. Perhaps upon further refinement of the tool, however, the Multi-Threat Framework itself may still prove to be useful in future studies. In fact, measurement issues regarding all stereotype threat measures should be addressed in order to obtain useful data field settings (Kalokerinos et al., in press; Xavier, Fritzsche, Sanz, & Smith, in press).
**Limitations**

As with any research study and perhaps, more so with field research, there were several limitations to be addressed in future research, and because of which, caution is advised in not over-interpreting the study results. As with any cross-sectional research design, one of the main limitation of the current study involves the inability to infer causality. Future studies can build upon the relationships found here and build longitudinal studies that can make causal inferences.

There are sampling issues to be considered as well. The sample for the current study was obtained from a Qualtrics panel which accessed sexual minorities on behalf of the researcher. The sexual minorities therefore must have volunteered to be a part of these research panels. Thus, the generalizability of the current study may be limited to only sexual minorities who felt comfortable disclosing their sexual orientation to a panel. Furthermore, such individual are also likely to be more active in promoting the rights of sexual minorities, given the fact that they had already volunteered to take part in such research efforts.

Additionally, the results of the current study may have been impacted by common method bias inherent in any study that exclusively uses self-report data, including the specific biases involved, such as recall bias (Podsakoff, MacKenzie, Lee, & Podsakoff, 2003). However, the constructs that were examined in the current study (i.e., stereotype threat, job satisfaction, perceived stress, and internalized homophobia) were subjective experiences, and therefore the use of all self-reported data is appropriate to measure experiences which only the individuals themselves experience. Although some research with stereotype threat has found support for objective measures which imply the presence of stereotype threat (e.g., elevated stress hormones or behavioral coding of nervous behavior), the use of such intrusive measures in the current study were not possible given the population which was examined (i.e., concealed sexual minorities; Bosson et al.; Huebner & Davis, 2005). Thus, the findings of the current study should
be considered in light of potential inflating factors such as the reliance on only the target individual’s ratings. Future research is best served, in all cases, when researchers can make use of multiple sources of data (e.g., friends/family/co-worker ratings) in order to avoid common source biases. A longitudinal study design is also advised for future research, in order to examine causal relationships pertaining to how individuals experience stereotype threat in the workplace, as well as the specific mechanisms involved. However, given that the pattern of results of the current study aligns with the findings of other studies (e.g., Human Rights Campaign, 2013; von Hippel et al. *in press*; Gomez & Wright, 2014), this lends some level of confidence that the results found are not statistical artifacts.

Additionally, the measures used in the current study may have impacted the findings. For example, the perceived stress measure used in the current study measured perceived stress that was related to the working environment. The findings may have been different if a general life stress measure was used. The same could be said for any of the measures used in the current study. The two measures of stereotype threat that were used appear to be measuring different constructs. Thus, the measures used to examine the constructs of interest may have impacted the results found in the current study. The findings of the current study should be replicated with alternative measures of the constructs.

Despite the aforementioned study limitations, this study represents an important first step in this domain, and contributes to the literature in a meaningful way. By demonstrating several interesting and significant relationships among the study variables, future researchers can now be more targeted in their approach. Given that this was a first look at the inter-relationships between these specific variables, examining a concealable stigmatized identity, as well as being the first study to make use of the Multi-Threat Framework, the associations observed between the study variables in this context are meaningful and useful in leading future research endeavors.
Future Research

The current study was also the first to incorporate stereotype threat into minority stress theory in the workplace. Previous research has primarily examined the minority stress theory with clinical outcomes (e.g., depression among sexual minorities); however, applied researchers in I/O psychology are beginning to appreciate the applicability of this theory in the workplace, which is useful in both clinical/counseling and in I/O research. Future research using the minority stress framework would also do well to incorporate stereotype threat into future models, given the results of this study. Essentially, stereotype threat may be a more robust predictor of outcomes than perceived discrimination, especially given its more pervasive presence in everyday situations, and has demonstrated its strength in predicting job satisfaction in the current study.

Future research should also consider the use of other mediators in the model. For example, the impact of performance can be examined as an alternative outcome of the model. Careful attention would be needed to ensure that the measure of performance was not tainted by the stereotypes regarding the group (e.g., supervisor subjective ratings of performance). Also, it is possible that job satisfaction mediates the relationship between stereotype threat and performance, or that performance mediates the relationship between stereotype threat and job satisfaction (i.e., individuals who experience stereotype threat perform more poorly on the job, which decreases their likelihood for career advancement and thus decreases job satisfaction). Some of the mediators of von Hippel et al. (2011) would be interesting to incorporate into future research, particularly given the similarities between the experiences of women in the workplace and sexual minorities (i.e., may experience less perceived career advancement possibilities or a lack of belonging). Internalized homophobia may moderate the relationship between stereotype threat and perceived belonging in the workplace. Also, the impact of diversity training in the
workplace may moderate the relationship between stereotype threat with sexual minorities and perceptions of belonging or perceived stress. Future research should examine ways that stereotype threat for sexual minorities can be reduced.

**Conclusion**

As this study suggests, investigating stereotype threat is an important contribution to diversity research when examining workplace experiences. Stereotype threat was found to be related to several negative outcomes such as perceived stress, job satisfaction, etc. In fact, the relationship between stereotype threat and perceived stress was significantly stronger than the relationship between perceived discrimination and perceived stress. The current study does not minimize the detrimental effects of discrimination on outcomes, but rather it adds to the support that stereotype threat is a valuable construct to examine in addition to perceived discrimination; particularly for individuals who may not have personally experienced discrimination in the past.

Stereotype threat was also found to have both a direct and indirect (through perceived stress) relationship with job satisfaction. Thus, further supporting research regarding stereotype threat in the workplace. Additionally, the relationship between stereotype threat and job satisfaction was mediated by perceived stress, providing some explanation as to how stereotype threat relates to job satisfaction. Furthermore, internalized homophobia moderated the relationship between stereotype threat and perceived stress, such that at high levels of internalized homophobia or stereotype threat all individuals experienced the same amount of (high) perceived stress. In other words, individuals experiencing high levels of stereotype threat experienced high levels of stress, regardless of the amount of internalized homophobia they experienced. Likewise, individuals with high levels of internalized homophobia experienced high levels of perceived stress, regardless of their level of stereotype threat. This is important because it highlights the importance of stereotype threat in the experience of perceived stress in the
workplace. This assertion was further supported by the current study’s findings that stereotype threat explained incremental variance in job satisfaction above what could be explained by perceived discrimination alone; thus implying that it may be a more powerful predictor of job satisfaction and thus a useful construct to examine in future job attitude studies.

Finally, concealing one’s sexual orientation in the workplace did not lead to different outcomes or experiences than not concealing one’s sexual orientation. This finding is noteworthy because stereotype threat theory implies that the negative consequences associated with stereotype threat may be lessened or avoided completely for individuals who are able to pass as non-stigmatized (Goffman, 1963; Shapiro & Neuberg, 2007). The current study provides support that this is not the case. Both concealing and non-concealing sexual minorities experienced the same level of negative outcomes (e.g., perceived stress, job satisfaction, etc.). Thus, the current research implies that there are fewer benefits to concealing one’s sexual orientation than may be originally thought. This is beneficial because the consequences of concealing are often detrimental to the psychological and physical well-being of sexual minorities, as previously discussed, and if sexual minorities experience the same outcomes regardless of concealment then it may not be beneficial to continue to needlessly live in fear and anxiety.
APPENDIX A: THE KINSEY HETEROSEXUAL-HOMOSEXUAL SCALE
(KHHS)
Please rate how you would describe your current sexuality.

0 Exclusively heterosexual- Individuals who make no physical contacts which result in erotic arousal or orgasm, and make no mental responses to individuals of their own sex.

1 Predominantly heterosexual / only incidentally homosexual- Individuals who have only incidental homosexual contacts which have involved physical or mental response, or incidental psychic response without physical contact.

2 Predominantly heterosexual but more than incidentally homosexual- Individuals who have more than incidental homosexual experience, and / or if they respond rather definitively to homosexual stimuli.

3 Equally heterosexual and homosexual- Individuals who are about equally homosexual and heterosexual in their overt experience and / or their mental reactions.

4 Predominantly homosexual but more than incidentally heterosexual- Individuals who have more overt activity and / or mental reactions in the homosexual, while still maintaining a fair amount of heterosexual activity and / or responding rather definitively to heterosexual contact.

5 Predominantly homosexual / only incidentally heterosexual- Individuals who are almost entirely homosexual in their overt activities and / or reactions.

6 Exclusively homosexual- Individuals who are exclusively homosexual, both in regard to their overt experience and in regard to their mental reactions.
The following demographic questions is useful in comparing your responses to other participants in this study. Please answer as many as you can, however if you do not feel comfortable responding to a particular question, please write NR (“No Response”) or skip the question.

1. What is your age? _________
2. Which ethnicity do you primarily identify as?
   o African-American
   o Hispanic or Latino
   o Asian
   o Middle Eastern
   o Caucasian (non-Hispanic)
   o Native American
   o Other
   2b. If “other”, please describe: _________
3. What is your job? _________
4. What is your biological sex? _________
5. What is your gender? _________
6. What career field do you work in?
7. In general, do you feel your career field is accepting of sexual minorities?
   o Not accepting of sexual minorities
   o Slightly not accepting of sexual minorities
   o Slightly accepting of sexual minorities
   o Very accepting of sexual minorities
8. To compare your responses to others in your part of the country, please indicate what state you live in.
9. Do you live in an Urban, Suburban, or Rural area?
   o Urban (i.e., city)
   o Suburban (i.e., suburb, residential community)
   o Rural (i.e., countryside)
APPENDIX C: STEREOTYPE VULNERABILITY SCALE
The following questions are about your feelings regarding the degree to which your sexual orientation affects other people’s evaluations of your ability in the workplace (i.e., your competence, your ability to interact with clients and coworkers, or whatever stereotype applies). Think your job and rate from 1 (never) to 5 (almost always) how often you feel that because of your sexual orientation:

1) Coworkers or supervisors expect me to do perform poorly because of my sexual orientation.
2) Working in my line of work may be easier for people of my sexual orientation.
3) I doubt that others would think that I have less ability to perform well at work because of my sexual orientation.
4) Some people feel I have less ability to perform well at work because of my sexual orientation.
5) People of my sexual orientation rarely face unfair evaluations in my workplace.
6) In my line of work, people of my sexual orientation often face biased evaluations from others.
7) My sexual orientation does not affect people’s perception of my ability to perform well.
8) At my job, I often feel that others look down on me because of my sexual orientation.
“Please think about your actions in the types of situations you described above. When you are in these types of situations, to what extent are you concerned that your actions...”

[Self-Concept Threat]
1. . . will lead you to see yourself as actually possessing the negative stereotype that others have about sexual minorities?
2. . . could imply negative things about your abilities in your own mind?
3. . . could confirm, in your own mind, that the negative stereotypes others have about sexual minorities are true of you?

[Group-Concept Threat]
1. . . will confirm, in your own mind, that the negative stereotypes about sexual minorities are true?
2. . . will prove to yourself that the stereotypes are true about people who are sexual minorities?
3. . . will lead you to believe that the stereotypes about people who are sexual minorities are true?

[Outgroup-Own-Reputation Threat]
1. . . that because you are a sexual minority, your actions could influence the way other people interact with you?
2. . . could lead you to be judged negatively by others because you are a sexual minority?
3. . . could lead others to judge you based on the stereotypes about people who are sexual minority?

[Outgroup-Group-Reputation Threat]
1. . . will reinforce the negative stereotypes, to others (non-sexual minorities), about people who are sexual minorities?
2. . . might poorly represent people who are sexual minorities to non-sexual minorities?
3. . . might confirm the negative stereotypes in the minds of others (non-sexual minorities) about people who are sexual minorities?

[Ingroup-Own-Reputation Threat]
1. …. that other people who are sexual minorities will treat you poorly if they saw you do something consistent with the stereotypes about people who are sexual minorities?
2. … that confirming this stereotype could have negative implications for the way other people who are sexual minorities treat you?

[Ingroup Group-Reputation Threat]
1.…. about reinforcing the negative stereotypes about people who are sexual minorities in the minds of others who are sexual minorities?
2.…..afraid that your actions will confirm the stereotypes about people who are sexual minorities in the minds of other people who are sexual minorities?
1. In prior positions, have you ever faced discrimination because of your sexual orientation?

2. In prior positions, have you ever encountered discrimination because others suspected or assumed that you are gay, lesbian or bisexual?

3. In prior positions, have you ever been physically harasssed (touched or threatened) because of your sexual orientation?

4. In prior positions, have you ever been verbally harassed because of your sexual orientation?

5. Have you ever resigned from a job in part or because of discrimination based on sexual orientation?

6. Have you ever been fired from a job in part or because of your sexual orientation?

7. Did you leave your last job in part or because of discrimination based on sexual orientation?
APPENDIX F: JOB SATISFACTION SURVEY
I feel I am being paid a fair amount for the work I do.
There is really too little chance for promotion on my job.
My supervisor is quite competent in doing his/her job.
I am not satisfied with the benefits I receive.
When I do a good job, I receive the recognition for it that I should receive.
Many of our rules and procedures make doing a good job difficult.
I like the people I work with.
I sometimes feel my job is meaningless.
Communications seem good within this organization.
Raises are too few and far between.
Those who do well on the job stand a fair chance of being promoted.
My supervisor is unfair to me.
The benefits we receive are as good as most other organizations offer.
I do not feel that the work I do is appreciated.
My efforts to do a good job are seldom blocked by red tape.
I find I have to work harder at my job because of the incompetence of people I work with.
I like doing the things I do at work.
The goals of this organization are not clear to me.
I feel unappreciated by the organization when I think about what they pay me.
People get ahead as fast here as they do in other places.
My supervisor shows too little interest in the feelings of subordinates.
The benefit package we have is equitable.
There are few rewards for those who work here.
I have too much to do at work.
I enjoy my coworkers.
I often feel that I do not know what is going on with the organization.
I feel a sense of pride in doing my job.
I feel satisfied with my chances for salary increases.
There are benefits we do not have which we should have.
I like my supervisor.
I have too much paperwork.
I don't feel my efforts are rewarded the way they should be.
I am satisfied with my chances for promotion.
There is too much bickering and fighting at work.
My job is enjoyable.
Work assignments are not fully explained.
The questions in this scale ask you about your feelings and thoughts during the last month. In each case, please indicate with a check how often you felt or thought a certain way.

1. In the last month, how often have you felt that you were unable to control the important things in your work life?
2. In the last month, how often have you felt confident about your ability to handle your personal problems at work?
3. In the last month, how often have you felt that things were going your way at work?
4. In the last month, how often have you felt difficulties at work were piling up so high that you could not overcome them?
APPENDIX H: INTERNALIZED HOMOPHOBIA
1. I often feel it is best to avoid personal or social involvement with other lesbian/bisexual women.
2. I have tried to stop being attracted to women in general.
3. If someone offered me the chance to be completely heterosexual, I would accept the chance.
4. I wish I weren’t lesbian/bisexual.
5. I feel alienated from myself because of being lesbian/bisexual.
6. I wish that I could develop more erotic feelings about men.
7. I feel that being lesbian/bisexual is a personal shortcoming for me.
8. I would like to get professional help in order to change my sexual orientation from lesbian/bisexual to straight.
9. I have tried to become more sexually attracted to men.

*Items are worded for female respondents. For male respondents the terms lesbian and female would be changed to gay and men, respectively*
Approval of Exempt Human Research

From: UCF Institutional Review Board #1
FWA0000351, IRB0001138

To: Elizabeth J. Sanz

Date: March 14, 2014

Dear Researcher:

On 3/14/2014, the IRB approved the following minor modification to human participant research that is exempt from regulation:

Type of Review: Exempt Determination
Modification Type: The advertisement/recruitment flyer has been simplified and two revised versions have been uploaded in IRIS.
Project Title: Examining stereotype threat in sexual minorities
Investigator: Elizabeth J. Sanz
IRB Number: SBE-14-10095
Funding Agency:
Grant Title:
Research ID: N/A

This determination applies only to the activities described in the IRB submission and does not apply should any changes be made. If changes are made and there are questions about whether these changes affect the exempt status of the human research, please contact the IRB. When you have completed your research, please submit a Study Closure request in IRIS so that IRB records will be accurate.

In the conduct of this research, you are responsible to follow the requirements of the Investigator Manual.

On behalf of Sophia Dziegielewski, Ph.D., L.C.S.W., UCF IRB Chair, this letter is signed by:

Signature applied by Joanne Muratori on 03/14/2014 04:01:21 PM EST

IRB Coordinator
Announcing the Final Examination of Elizabeth Sanz
for the Doctor of Philosophy Degree in
Industrial and Organizational Psychology

Date: July 8, 2014
Time: 2:30pm
Location: 203D

Dissertation title: Exploring Stereotype Threat in the Workplace with Sexual Minorities

Explanation:
Job dissatisfaction has been linked to many organizational outcomes such as poor performance, absenteeism, and turnover intentions; thus, it is important to examine predictors of job dissatisfaction. Stereotype threat, the anxiety of confirming a negative stereotype about oneself or one’s group, has been linked to perceived stress and burnout; and stress has been linked to job dissatisfaction. Thus, the current study tested perceived stress as a mediator between stereotype threat and job dissatisfaction in a sample of 150 sexual minorities who were employed full time. Sexual minorities provide a unique test of stereotype threat theory because they may choose to conceal their minority status at work. Thus, this study also examines whether the visibility of the stigma is a necessary precursor to the experience of stereotype threat. Two variables, degree of concealing and internalized homophobia, were predicted to moderate the relation between stereotype threat and perceived stress. Results indicated support for the moderated mediation model; that is, stereotype threat predicted job dissatisfaction through job stress. Moreover, at high levels of internalized homophobia, individuals reported high job stress, regardless of levels of experienced stereotype threat. However, those with low internalized homophobia reported high job stress only when stereotype threat was high. Moderation was not found for degree of concealing, suggesting that the deleterious effects of high stereotype threat on job stress occurred regardless of whether participants were concealing. Finally, results suggest that stereotype threat added significant incremental validity in predicting job dissatisfaction over perceived discrimination. These findings, in total, suggest that stereotype threat is a valuable construct for predicting negative work outcomes for stigmatized individuals. Implications for improving the work lives of sexual minorities were discussed.

Outline of Studies
Major: Psychology – Industrial and Organizational, PhD
Educational Career: B.S. Psychology, University of North Florida 2005
M.A. General Psychology, University of North Florida 2007

Committee in Charge
Committee Chair: Dr. Barbara A. Fritzsche
Department Committee Member: Dr. Dana Joseph
Department Committee Member: Dr. Charles Negy
Outside Committee Member: Dr. Kizzy Parks
Other Committee Member:
Approved for distribution by Dr. Barbara A. Fritzsche, Committee Chair, on July 7, 2014.
The public is welcome to attend.
LIST OF REFERENCES


128


