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A PROSPECTIVE INVESTIGATION OF JOY AND TRAIT GRATITUDE

A Thesis

Presented to

Eastern Washington University

Cheney, Washington

In Partial Fulfillment of the Requirements

for the Degree

Master of Science in Psychology

Ву

Madeline R. Greaves

Spring 2017

THESIS OF MADELINE R. GREAVES APPROVED BY

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MASTER'S THESIS

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Abstract

This prospective study examined the relationship between trait gratitude and future joy. The purpose was to determine if trait gratitude could predict future joy. Previously, studies have not examined the specific relationship between these two emotions, but there is good reason to believe that joy is a distinct positive emotion, and gratitude may be foundational for the experience of joy. The study was done with university students taking the GRAT, GQ-6, and measures of joy at two time points, seven to nine weeks apart. Data were analyzed from 149 participants recruited from psychology classes. Participants with higher trait gratitude at Time 1, as determined by the GRAT, tended to have more joy at Time 2. However, when measuring trait gratitude with the GQ-6, this trend did not reach significance. As an exploratory analysis, I analyzed the relationship between Time 1 trait joy and Time 2 state gratitude and found a similar relationship. These findings not only support that trait gratitude may be foundational for joy over time, but also suggest joy and gratitude can support each other in an upward spiral. Future directions are also discussed.

A Prospective Investigation of Joy and Trait Gratitude

People want to be happy. Many people have written about how to become happy, or how to feel happy more often (Robinson & Martin, 2008). In recent years, the growing field of positive psychology has tried to discover what can make an adequate life flourish. While psychology has historically dwelt on pathology, positive psychology has encouraged directing one's focus to well-being. In other words, the goal is to enhance the positive in life, rather than solely fixing dysfunctions (Seligman, 1998; Watkins, 2014). Some organizations, such as the Yale Center for Faith and Culture, (http://faith.yale.edu/joy/virtues) are actively pursuing what attributes and behaviors can be linked with human flourishing. One of several ways this can be done is through the investigation of positive emotions such as joy.

Although previous psychological research has focused on decreasing the impact of negative emotions such as anxiety, fear, sadness, or anger, enhancing positive emotions may also make a significant contribution to improving mental and physical health. These positive emotions can help individuals build on their existing mental resources, which can enhance human flourishing and well-being (Fredrickson, 2001). Unlike negative emotions, positive emotions are less likely to narrow thoughts and actions, often because they are not associated with a threat to neutralize. Broadening one's attention can lead one to explore more novel situations and become more aware of existing resources (Fredrickson, 2001). Research has found that positive affect makes people more flexible in categorization, suggesting a broadening in the scope of cognition (Murray, Sujan,

Hirt, & Sujan, 1990). In other words, people have more flexible thinking when they are experiencing more positive emotions. This expanded perspective may become useful in daily life and possibly contribute to well-being.

Joy is an example of a positive emotion that may enhance well-being. Although it is often seen as a synonym for happiness, it may be a specific emotion in its own right. Fredrickson (1998) notes that this feeling often occurs in situations and contexts where a person feels safe and that require low effort. Fredrickson adds that joy can also create the urge to play, which may promote skill acquisition. In the case of joy, it may broaden thoughts and actions, rather than prevent the narrowing perception seen with negative emotions or threatening situations. In addition, joy may help people progress towards goals. If joy is indeed related to skill acquisition and goal progress (Fredrickson, 1998), it may be important to well-being. However, despite the possible benefits of joy, scant research has been dedicated to defining joy or determining what factors relate to it. Gratitude may be an important foundation for the experience of joy (Gruszecka, 2015). However, how gratitude impacts future joy has yet to be investigated.

The question remains if gratitude is a foundation for joy. The purpose of this study was to determine if trait gratitude is a predictor of future joy. This may further establish the impact gratitude has on positive emotions and well-being. Furthermore, it will help expand what it known about joy and its relationship with gratitude.

Literature Review of Joy and Gratitude

Although joy is commonly thought of as synonymous with happiness, recent research has attempted to distinguish between different positive emotions. In the past, positive emotions have been studied together with little differentiation, though this may lead to the assumption that they all impact mental health in similar ways. However, each positive emotion appears to make distinct contributions to well-being and adaptive behavior (Egloff, Schmukle, Burns, Kohlmann, & Hock, 2003; Shimoni, Asbe, Eyal, & Berger, 2016). In this review, I will define joy and distinguish it from other positive emotions, such as pride. In addition, I will discuss gratitude and its role both in well-being and the experience of joy.

Distinguishing Features of Joy

Joy and happiness are not identical; indeed, happiness does not have a consistent definition in emotion research. Despite the difference between the emotions, joy still has a positive impact on well-being. Joy has been found to be related to many positive emotions, and even to better health outcomes (Consedine, Magai, & King, 2004). Furthermore, joy has been referred to as "the crown of the good life" and described as an emotion that goes beyond physical sensations (Volf, 2015). However, it can be difficult to explain how joy is different from other positive emotions. Research has found that joy and other positive emotions exist on a dimension independent from negative emotions (Diener & Emmons, 1984). In other words, joy cannot be described as the absence of

negative emotions, but rather as the positive presence of a specific affective state.

Recent studies have found differences between positive emotions based on how they influence behavior (see Egloff, et al., 2003; Shimoni, Asbe, Eyal, & Berger, 2016). Naturally, the first step in studying joy is to explain how it is different from other pleasant feelings. In general, there has been less research dedicated to differentiating positive emotions than negative ones (Egloff, et al., 2003). However, studies have been able to reasonably separate joy from emotions such as interest and pride.

Careful examination of emotional measures can aid in discriminating joy from other feelings. The Positive and Negative Affect Schedule (PANAS; Watson, Clark, & Tellegen, 1988) measures different aspects of both positive and negative affect. Egloff et al. (2003) examined three factors of positive affect in the PANAS, which have been labeled joy, activation, and interest. In some situations, joy and activation appeared to be negatively correlated. For example, activation rises during stressful situations, such as test-taking, whereas joy will decrease until the stressful event ends. Furthermore, while joy will go down in most stressful situations, activation and interest will only decrease if the person fails in the task. Thus, although all three are positive emotions, they manifest in different courses across certain situations. Activation can be useful in seeking goals and completing tasks, while joy appears to increase only after someone is successful in navigating a stressful situation.

Joy can also be reasonably separated from pride. Pride is an emotion linked to drive and accomplishment. It can be energized by conditions such as pursuit goals and social expectation. In other words, the positive experience is based on completing a job well. In contrast, joy is a more pleasurable emotion that can come from receiving a reward or good news. It is hedonic in nature, comparable to the concept of self-gratification, and is not necessarily associated with goal completion. With my proposed conceptualization of joy, joy is pleasurable; feelings of competency or feelings of accomplishment are not prerequisites for this emotion, as they are for pride. Pride comes from what one has done, whereas joy is seen as a gift or blessing, as explained later in this review.

Likewise, pride and joy impact behavior differently. When examining children performing a self-regulation task, pride was found to be harmful to self-regulation, while joy was not (Shimoni, Asbe, Eyal, & Berger, 2016). Although joy seems to be experienced early in life, distinguishing between joy and pride may be a more mature concept. It may be difficult to distinguish the good, hedonic feeling of joy from the accomplishment associated with pride. Pride and joy are not usually discriminated in early childhood, though older children can make the distinction between these two positive emotions.

For this study, I argue that joy has three main structural components. First, it is a positive hedonic response. In other words, when people experience joy their experience is pleasant in some way. Second, joy has an intentional object that is perceived as good. The good object is not just happenstance, but rather it

is perceived as intentional in some way. This implies that joy does not happen spontaneously or in the absence of something positive. There is a sense that the good events are seen as a gift, leading to experiencing joy. Finally, I propose that joy does not arise out of a sense of entitlement (Watkins & Emmons, 2015). In Volf's words, the object is perceived as "un-owed." In sum, when people experience joy, they are aware of the feeling, experience it as positive, see the object of joy as intentionally good, and do not demand it or feel it is owed to them. Since joy is both pleasurable and may be beneficial to well-being, this research aimed to find factors that can lead to experiencing joy over time. In particular, the present study focused on how joy relates to gratitude.

Gratitude

Gratitude is a topic that has received more attention in recent years (Watkins, 2014). For gratitude to occur, two conditions must be met. First, the person must acknowledge that something good has happened to them. Second, the good thing is recognized as coming from an outside source (Watkins & McCurrach, in press). This formulation refers to state gratitude, or the emotion of gratitude. In practice, there have been interventions developed to increase this kind of gratitude (for a review, see Davis, et al., 2016). Like many other emotions, however, there is more than one perspective from which to study gratitude.

In addition to analyzing gratitude as the state level, gratitude may also be studied as an affective trait. This study focuses on trait gratitude as a foundation for joy. Trait gratitude refers to the disposition for gratitude, or having a grateful personality. A person with a high level of trait gratitude will likely experience state

gratitude frequently in daily life across a variety of situations (see Watkins, 2014). To consider it in other terms, state gratitude is episodic, whereas trait gratitude is more chronic and pervasive. Both dimensions of gratitude have shown positive effects on well-being (Watkins, 2014). Watkins et al. (2003) developed a measure of trait gratitude, the Gratitude, Resentment, and Appreciation Test (GRAT), that was based on the theory that those high in trait gratitude have a mindset of viewing all of life as a gift. As will become apparent later, this mindset may be important for enhancing the likelihood of experiencing joy.

Gratitude has been conceptualized as a both a protective factor, or lowering the impact of negative feelings, as well as a means of amplifying the good in life (Watkins, 2014; Watkins & McCurrach, in press). Gratitude may have a valuable impact on emotional disorders such as depression. Some research has found that experiencing and expressing gratitude is related to a decrease of depressive symptoms (Seligman, Steen, Park, & Peterson, 2005; Watkins et. al, 2015), and this effect appears, in part, to be a result of encouraging positive emotions and positive reframing (Lambert, Fincham, & Stillman, 2012). Lambert et al. noted that gratitude prompted a reframing process that allowed clients to view negative experiences in a positive light. This, in turn, was related to lowering depression. This effect on depression symptoms has also been seen with trait gratitude (Krysinska, Lester, Lyke, & Corveleyn, 2015).

Because of these positive outcomes, gratitude interventions have been developed and put into practice. However, there have been mixed reviews of the effectiveness of these treatments (Wood, Froh, & Geraghty, 2010). The current

stance is that gratitude interventions may enhance well-being, but the observed effect sizes are small (Davis, et al., 2016). However, it has been noted that most of the studies do not feature those seeking treatment, and it is possible that clinical samples or more motivated participants may benefit more from gratitude interventions.

Despite the mixed reviews of gratitude interventions, they do appear to make a positive impact. Although treatment effects may be small (Davis, et al., 2016), gratitude does appear to enhance well-being. How does gratitude enhance well-being? One review of gratitude suggests that gratitude amplifies the good in life (Watkins & McCurrach, in press). In other words, gratitude calls attention to and enhances one's awareness of who and what is good in life. Because joy is conceptualized in my study as recognizing something as a gift, calling attention to the good in life could theoretically create more conditions leading to feeling joy. Naturally, the next step is to find whether this increased awareness translates to feelings of joy.

Relationship Between Joy and Gratitude

Previously, gratitude and joy have been studied together under the umbrella of positive emotions. Some research has shown impacts of these emotions on well-being when they are grouped in this way, though the specific relationship with each other has not been fully explored (Bell & Watkins, 2015). More recently, there has been some investigation on the impact gratitude has on joy.

Firstly, both gratitude and joy are related to subjective well-being. For example, they both are strongly and positively correlated with happiness (Gruszecka, 2015). In addition, they are important aspects of emotional flourishing (Russell & Fosha, 2008). Joy and gratitude can create a calm state that not only reduces anxious feelings, but also allows a person to engage in the world by taking note of available resources and exploring new situations (Fredrickson, 2001). Because they are two distinct emotions, gratitude and joy may influence well-being in different ways. Trait gratitude is seen as an adaptive virtue, while joy is a positive state that amplifies good feelings. When joy and gratitude combine with other factors, they can give people mental resources to deal with stressors, similar to the earlier discussion of Fredrickson's theory (2001). Thus, those who frequently experience joy and gratitude may be better equipped to confront life challenges and may be more likely to thrive.

Like other positive emotions, joy may not be voluntarily produced. One mat not be able to "choose" to experience joy or feel safe in a particular moment. However, I submit that one may prepare for joy, or prime oneself through thoughts and behaviors to allow joy to more likely be experienced. One such way of preparing for joy might be in having a grateful mindset, or trait gratitude. In this sense, gratitude may be the foundation for joy. Because I propose that joy is experienced in response to good events, and that it comes from seeing these good times as a gift (Watkins, 2015), a disposition for gratitude may prepare people to feel joy. A pattern of recognizing good things coming from something else, which can describe trait gratitude, theoretically, can prime people towards

seeing any positive event as a gift, which should enhance the likelihood of experiencing joy.

Recently, there has been some investigation into the connection between joy and gratitude. Using the GRAT (Watkins, Woodward, Stone & Kolts, 2003), Bell and Watkins (2015) found positive relationships between joy and gratitude. This paper described two studies that measured initial levels of gratitude and joy, and measured joy at three subsequent time points. Gratitude predicted increased joy over time, but the reverse was not found. These two studies had notable limitations; joy was measured using the PANAS (Watson, et. al, 1988), which is used to measure multiple positive emotions. In addition, the lengths of both studies were quite short. The first study only had one and a half weeks between the initial and final assessment. In the second study, the assessments were only a few days apart (Bell & Watkins, 2015).

However, the findings of Bell and Watkins (2015) warrant further investigation. Trait gratitude, by definition, is characterized by a regular experience of gratitude. If gratitude indeed amplifies the good in one's life, this may enhance subsequent experiences of joy. In other words, being a grateful person can prepare an individual for joy. This may be a result of being more appreciative of others, of simple pleasures, and possibly giving people a sense of abundance. These factors may set people up for experiencing more joy over time.

Study Overview

The present study further examined the relationship between trait gratitude and joy. In order to see how gratitude predicts future joy, the study was prospective in nature. Participants were given measures to assess levels of trait gratitude and state joy at two time points, approximately seven to nine weeks apart. Based on the theory that a grateful mindset is a foundation for joy, I predicted that trait gratitude would predict future joy, after controlling for initial levels of joy. As previously discussed, a regular experience of feeling grateful may train a person to find appreciation in both others and simple pleasures. This reframing of life experiences as gifts may lead to more feelings of joy.

Method

Overview and Design

This was a two-month prospective design where measures of gratitude and joy were administered at two time points, seven to nine weeks apart. Other measures were administered during these time points for exploratory purposes.

Participants

Participants were recruited from undergraduate psychology courses in exchange for extra course credit. Time 1 had 220 total participants, Time 2 had 178 total participants. The final sample consisted of 149 participants who completed both assessments of the study after removing data from participants that did not pass data check items (47 males, 101 females, 1 other). Participants were included in the study if they were at least 18 years old and completed the measures of joy and gratitude at both time points (see Appendices B and C for

consent and recruitment forms). This study was reviewed and approved by the Institutional Review Board at Eastern Washington University.

Materials

Assessment of trait gratitude was done with both the short version of the Gratitude Resentment and Appreciation Test (GRAT-S, Watkins, et al. 2003) and the Gratitude Questionnaire (GQ-6, McCullough, Emmons, & Tsang, 2002). The GRAT-S consists of sixteen statements; the participant uses a Likert-type response indicating level of agreement with each statement, ranging from 1, "I strongly disagree" to 9, "I strongly agree with the statement." The GQ-6 is a Likert-type measure that has participants indicate agreement to six statements regarding gratitude. Responses range from 1, "strongly disagree" to 7, "strongly agree." State gratitude was assessed with the Gratitude Adjectives Scale (GAS, McCullough, et al., 2002). The GAS consists of three adjectives: grateful, thankful, and appreciative. Participants provide Likert-style responses based on their experience of these emotions. These adjectives were interspersed with the 60 adjectives of the PANAS-X, described below.

To clarify the findings, both trait and state joy were measured. To measure trait joy, participants filled out a previously designed 31-item Dispositional Joy Measure (DJS) that asks participants to rate agreement with statements using a seven-point Likert scale, such as "My life is always improving" and "I am a playful person." Responses ranged from 1, "strongly disagree" to 7, "strongly agree." Although I predicted that trait gratitude is foundational for joy, trait joy may also enhance trait gratitude; I included the DJS to evaluate this possibility. State joy

was assessed with a previously designed 35-item self-report measure asking about experiences in the past week. The measure had participants use a seven-point Likert scale to rate either frequency of feelings, with responses ranging from 1, "not at all" to 7, "frequently," or agreement with statements, which ranged from 1, "completely disagree" to 7, "strongly agree." Examples of statements include "I felt exuberant this week," and "This week, my life went well."

Additionally, the PANAS-X (Watson & Clark, 1994) was administered to measure feelings at the moment of examination. This scale has been used in previous joy research (Bell & Watkins, 2015). The PANAS-X consists of 60 adjectives describing several emotions, such as blue, happy, and at ease. Participants responded to these adjectives in Likert-type responses reflecting their experience with these emotions. Responses ranged from "1: very slightly or not at all" to "5: extremely." The set of words is given twice: once to describe current feelings and once to describe feelings in the past few weeks.

Procedure

After providing their written consent (Appendix B), participants filled out their questionnaire packet in a group setting. This packet included the GRAT-S, GQ-6, and GAS to measure gratitude levels, as well as the PANAS-X, Dispositional Joy Measure, and state joy measure to measure joy. These measures were given in randomized order to account for order effects. For exploratory purposes, supplemental measures were also included. These measures are not related to the purpose of this study and will not be discussed (Appendix A). To control for socially desirable responses, the Balanced Inventory

of Desirable Responding (BIDR, Paulhus, 1991) was included. A small number of items were dispersed throughout the packet of measures that asked for a specific response, such as "Please mark 5 for this item." These data-check items were added to check for validity in responses. A total of five participants were removed from the data set for answering at least two of these questions incorrectly. The participants were given identifiers so their responses from the two administrations could be linked.

Approximately seven to nine weeks later, at the end of their academic quarter, the participants completed the same packet again in relation to their feelings at the second time point. The data was collected, and a comparison was made between the responses on the two packets.

Results

Psychometrics of Primary Measures

I conducted reliability analyses on the measures of joy and gratitude, specifically the GRAT-S, GQ-6, Dispositional Joy Measure, state joy measure and the BIDR. The reliability analyses were done for both administration times using all the subjects that completed the administration, regardless of whether they completed the other administration. Examined measures typically had higher reliability for Time 2, likely due to a lower number of participants for the second administration, and therefore less possibility for extreme response patterns.

The GRAT-S was high in internal consistency reliability at Time 1 (Cronbach's α = .84, M = 115.91, SD = 15.17) and Time 2 (Cronbach's α = .90,

M = 115.65, SD = 17.54). The GQ-6 also had significant reliability (Time 1: Cronbach's α = .81, M = 35.87, SD = 5.31; Time 2: Cronbach's α = .81, M = 36.05, SD = 5.28).

Both joy measures used in this study had very high reliability. The Dispositional Joy Measure was reliable at Time 1 (Cronbach's α = .96, M = 126.80, SD = 28.79) and Time 2 (Cronbach's α = .97, M = 127.99, SD = 30.20). The experimental state joy measure also had high reliability at both administrations (Time 1: Cronbach's α = .950, M = 102.13, SD = 25.91; Time 2: Cronbach's α = .96, M = 102.35, SD = 28.33).

I controlled for socially desirable responding with the BIDR (Paulhus, 1991), which is split into two measures for impression management (Cronbach's α = .74, M = 77.82, SD = 15.65) and self-deception (Cronbach's α = .67, M = 81.50, SD = 12.49). These measures have less than adequate reliability.

Primary Analysis: Multiple Regression with Time 1 Trait Gratitude and Time 2 State Joy

For the primary analyses, I used multiple regression analyses to examine the relationship between Time 1 trait gratitude and Time 2 state joy after controlling for the effects of Time 1 joy and the two dimensions of socially desirable responding: self-deception and impression management. Both self-deception (r = .33, p < .001) and impression management (r = .18, p = .028) were significantly correlated with Time 2 state joy.

The analysis was accomplished with hierarchical regression; Time 1 state joy, self-deception, and impression management were entered for the first step

and Time 1 trait gratitude was entered in the second step to predict Time 2 state joy. Two analyses were done in this manner: one for each measure of trait gratitude presented to participants during the study.

Using the GRAT-S as the measure for trait gratitude, trait gratitude was associated with state joy at Time 2 (R^2 = 0.38, ß = .29, p< .001; See Table 1) after controlling for Time 1 state joy (ß = .34, p< .001), self-deception (ß = .09, p = .314), and impression management (ß = .04, p = .561). In other words, trait gratitude at Time 1 predicted more joy after seven to nine weeks, taking into consideration initial joy levels.

Table 1

Model Summary

Model	R	R	Adjusted	Std. Error	R	F	df1	df2	Sig. F
		Square	R Square	of the	Square	Change			Change
				Estimate	Change				
1	.56	.31	.30	1.03	.31	20.28	3	133	<.001
2	.61	.38	.36	.99	.06	13.19	1	132	<.001

ANOVA

Model		Sum of Squares	df	Mean	F	Sig.
				Square		
1	Regression	65.02	3	21.68	20.28	<.001
	Residual	142.17	133	1.07		
	Total	207.20	136			
2	Regression	77.94	4	19.49	19.90	<.001
	Residual	129.26	132	.98		
	Total	207.20	136			

However, when analyzing data from the GQ-6, the same trend did not reach significance. Trait gratitude at Time 1 was not predictive of Time 2 state joy $(R^2 = 0.32, \, \text{ß} = .12, \, p = .168; \, \text{see Table 2})$ after controlling for initial joy $(\text{ß} = .45, \, p < .001)$, self-deception $(\text{ß} = .06, \, p = .534)$ and impression management $(\text{ß} = .06, \, p = .426)$. Although the correlation was in the same direction, this measure of trait gratitude did not significantly relate to joy after seven to nine weeks. It should be noted that the responses for the GQ-6 were negatively skewed at Time 1 ($z = -2.62, \, p = .009$) with many participants reporting high levels of gratitude, which likely weakened the association between the variables. In contrast, responses on the GRAT for Time 1 were not significantly skewed ($z = -1.20, \, p = .117$).

Table 2

Model Summary

Model	R	R	Adjusted	Std. Error	R	F	df1	df2	Sig. F
		Square	R	of the	Square	Change			Change
			Square	Estimate	Change				
1	.56	.31	.30	1.03	.31	20.28	3	133	<.001
2	.57	.32	.30	1.03	.01	1.92	1	132	.168

ANOVA

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	65.02	3	21.68	20.28	<.001
	Residual	142.17	133	1.07		
	Total	207.20	136			
2	Regression	67.07	4	16.77	15.79	<.001
	Residual	140.13	132	1.06		
	Total	207.20	136			

Exploratory Analysis: Multiple Regression with Time 1 Trait Joy and Time 2 State Gratitude

I also examined the effect of trait joy on state gratitude over time using similar statistical methods. Once again, I controlled for socially desirable responding using the BIDR. The first step of the regression analysis included the measures for socially desirable responding and initial state gratitude. State gratitude was measured with the GAS. I had data for both state gratitude at the time of examination and in the past few weeks; the latter measurement was

chosen because this period was most similar to the state joy measure, which used a period of one week. Self-deception was significantly correlated with Time 2 state gratitude (r = .28, p < .001), though impression management was not (r = .08, p = .307). Trait joy at Time 1 predicted levels of state gratitude at Time 2 ($R^2 = 0.27$, R = .34, P = .012; see Table 3) after controlling for Time 1 state gratitude (R = .34, R = .001), impression management (R = .03, R = .696), and self-deception (R = .06, R = .484). In findings mirroring the primary analyses, trait joy is positively associated with state gratitude after seven to nine weeks after controlling for social desirability and initial state gratitude.

Table 3

Model Summary

Model	R	R	Adjusted	Std. Error	R	F	df1	df2	Sig. F
		Square	R	of the	Square	Change			Change
			Square	Estimate	Change				
1	.49	.24	.22	.94	.24	15.18	3	148	<.001
2	.52	.27	.25	.92	.03	6.49	1	147	.012

ANOVA

Model		Sum of	df	Mean	F	Sig.
		Squares		Square		
1	Regression	40.14	3	13.38	15.18	<.001
	Residual	130.42	148	.88		
	Total	170.57	151			
2	Regression	45.66	4	11.42	13.43	<.001
	Residual	124.91	147	.85		
	Total	170.57	151			

Discussion

The purpose of this study was to investigate the relationship between gratitude and joy over time. Specifically, I analyzed how trait gratitude, or having a grateful personality, would influence state joy, or joy felt in the moment, seven to nine weeks later. The results of this study suggest that there is an association between trait gratitude and state joy over time. In other words, trait gratitude predicted increases in state joy over time. I found that trait gratitude predicted state joy experienced in the future, after controlling for initial joy levels. In other words, being consistently grateful allows joy to be felt over time, after controlling for initial levels of joy. This suggests that gratitude may act as a foundation for feelings of joy. These findings were only supported with one of the trait gratitude measures (GRAT-S), and the limitations of using the GQ-6 should be considered.

The use of the GQ-6 should be highlighted in terms of this study's limitations. Indeed, the means for the GQ-6 were quite high and the distribution was very negatively skewed, which may explain why the analysis with the GQ-6

did not reach significance. It is possible the limited ability to significantly predict future increases in state joy was the result of the high scores and limited variance of the GQ-6. Further development of the GQ-6 to allow for more variance at the upper ends of the scale may improve its predictive ability. On the other hand, perhaps researchers should be cautioned about the GQ-6 in similar studies.

Negative skew appears to be a problematic characteristic in all positive psychology measures, and this is an issue that researchers need to confront.

As an exploratory analysis, I also examined if trait joy predicted state gratitude over time. The purpose was to examine more dimensions of the relationship between gratitude and joy. The results appear to indicate that this relationship is also present; trait joy appears to be associated with greater state gratitude over several weeks. In other words, gratitude is experienced more often when one has a disposition for joy. As discussed earlier, experiencing gratitude is associated with improved well-being (Watkins, 2014) and expressing gratitude is related to alleviating depressive symptoms (Seligman, Steen, Park, & Peterson, 2005; Watkins et. al, 2015). The findings in these studies suggest gratitude improves well-being, and my findings suggest that gratitude is found in people who are regularly joyful.

The findings from these two analyses suggest a noteworthy relationship between joy and gratitude, namely that they both have positive influences on each other that last over time. In other words, the disposition for one of these emotions enhances the state of the other. Trait gratitude predicts enhanced joy and trait joy predicts enhanced gratitude. Thus, my results support the possibility

of an upward spiral between gratitude and joy: as gratitude increases, joy also increases, which leads to even higher levels of gratitude, and so on. If this upward spiral between gratitude and joy exists, it seems prudent to ask how one can instigate this cycle of virtue. Trait emotions are thought of as part of one's personality or disposition. Therefore, the upward spiral would involve a change in a personality trait. This possibly could be achieved when the state emotion is experienced to a degree that it becomes almost automatic, though whether frequency of an emotion can strengthen an affective trait remains unclear. It would seem to follow that an increase in one of these positive emotions would need to occur to begin this cycle. This may be achieved by some intervention that would increase the frequency of one or both emotions (for examples, see Emmons & McCullough, 2002; Watkins, et. al, 2015).

Strategies for impacting joy directly have not been developed, but researchers have developed some methods of enhancing gratitude. Although many studies have used techniques to enhance state gratitude, very little work has focused on cultivating the grateful disposition. Because this study focused on how the dispositions of gratitude and joy enhanced subsequent joy and gratitude, future research could be devoted to enhancing these dispositions (Watkins, 2014). One such way may be the development of new interventions designed to increase affective traits.

Because increased gratitude is associated with increased joy and improved well-being, it follows that increasing gratitude is one method of increasing joy. A number of gratitude interventions have been developed, such

as grateful recounting. This intervention usually involves participants writing down things in their lives that they are grateful for (e.g., Emmons & McCullough, 2002; Watkins, et. al, 2015). This process could train the person to recognize things to be grateful for, possibly leading people to identify these things without actively practicing grateful recounting. In other words, this process increases state gratitude, which could ultimately impact their disposition for gratitude, and thus ultimately enhance experiences of joy.

The present study focused on the relationship between state joy and trait gratitude, implying that those wanting to increase joy over time might benefit from cultivating a disposition for gratitude. However, the gratitude interventions that have been developed are designed to elevate gratitude in the moment, in an effort increase long-term subjective well-being. Interventions for trait gratitude have yet to be developed. Whether the existing interventions can lead to increases of joy as depicted in this study depends on whether increasing the frequency of state gratitude can lead to increased trait gratitude. Although there is a difference between state and trait versions of an emotion, theoretically, routine practice can lead to possible increases of trait gratitude. When one has a grateful disposition, identifying sources of gratitude, or what to be grateful for, should not be a laborious task. Routine practice could train a person to consistently find new things to be grateful for, eventually leading to this becoming a more automatic process, which probably characterizes trait gratitude. However, this connection remains speculative; research still needs to determine that feeling gratitude frequently leads to higher trait gratitude.

Just as gratitude and joy tend to exist together, these emotions appear to have similar theoretical characteristics. Considering the relationship between gratitude and joy, it is important to revisit how joy is conceptualized. Earlier I discussed a proposed definition of joy: a positive hedonic response associated with an intentional object perceived as a gift that does not come from a sense of entitlement. The second part of this definition of joy, perceiving something as a gift, has theoretical similarities to gratitude. Specifically, gratitude requires recognition of a good event coming from an outside source. In both emotions, there is a sense that something good is coming from outside oneself. The outside source for gratitude and the gift for joy may be the same thing in certain situations. The similar characteristics of joy and gratitude could possibly be the mechanism for the upward spiral. The act of recognizing something good from an outside source could possibly activate both joy and gratitude, which may be related to why trait gratitude enhances state joy over time, and vice versa. Joy and gratitude have a common component that can be used to fuel both feelings.

Although there are similar characteristics, it should not be assumed that gratitude and joy are different manifestations of the same positive emotion. Indeed, the psychometrics discussed in this study suggest that measures used for gratitude were measuring something different than the materials designed to measure joy. Thus, joy is distinct from gratitude in some way. Considering how these two emotions tended to co-occur for participants in this study, more research distinguishing joy from gratitude may be warranted. However, the

results of this study support the conclusion that joy and gratitude are indeed distinct.

One of the implications of this research is that joy can be enhanced by gratitude. Thus, one way that gratitude leads to improved subjective well-being and human flourishing might be through increasing experiences of joy.

Considering that joy and gratitude appear to positively influence each other, this would lead to an increase in positive affectivity. As discussed previously, positive emotions can theoretically build mental resources that improve problem solving (Fredrickson, 2001). For example, people may be more able to cope with stress by having more joy, which may be a result of being a more grateful person.

Although stressful events would still occur, individuals may be able to endure them better or possibly thrive in them. By developing a disposition for gratitude, and preparing for joy in the future, one could enhance the likelihood of flourishing.

Limitations

There are certain aspects of the study that should be considered when interpreting the findings. One of the limitations of this study is the sample was exclusively university students, many between the ages of 18 to 24. As previously noted, the sample reported very high levels of gratitude, particularly as reflected in the descriptive statistics of the GQ-6. Considering the population, it is possible that college students may inherently be very grateful, possibly due to the support of others, such as parents, teachers, or advisors, that allowed them to progress in their education. If this were the case, trait gratitude levels may be

more variable in other populations. However, there is nothing to indicate the impact of trait gratitude on state joy would be altered. This study also used a relatively small prospective time frame of seven to nine weeks. Future studies may want to investigate the relationship between gratitude and joy over longer time periods, such as six months or more.

Future Directions

A possible explanation for the cyclical relationship between joy and gratitude may be because they both involve positive affect. In other words, they enhance each other because they are both positive, pleasurable emotions, and positive emotions tend to activate other positive emotions. In other words, the relationship demonstrated here may not be unique to gratitude and joy; other positive emotional dispositions may also prepare the way for experiences of joy. Thus, future research could examine this relationship with other positive emotions, such as pride or interest. The results from this study cannot determine if the relationship between joy and gratitude is unique from those found between any two positive emotions. While there are characteristics of joy and gratitude that may enhance their association, relationships between other positive emotions need further investigation.

In conclusion, my results supported the theory that joy can be accessed through a grateful disposition. Given the pleasurable nature of joy, the ability to experience more joy is likely to be a desirable goal for most people. As Volf described it (2015), joy is the "crown of the good life." Though everyone will inevitably experience negative emotions, they may also be able to access this

"crown" of well-being that Volf described. Through gratitude interventions or paying greater attention to gifts in life, my results suggest that more joy will be experienced in the weeks that follow. Furthermore, because of the apparent upward spiral demonstrated between gratitude and joy, if one incorporates a grateful approach to their everyday life, this should enhance joy which in turn should enhance gratitude. The increase in these two positive emotions could help to build mental resources (Fredrickson, 2001) and aid us in understanding how to enhance human flourishing.

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Appendix A

Subject #	Date
	PANAS-X

This scale consists of a number of words that describe different feelings and emotions. Read each item and then mark the appropriate number in the space next to that word. Indicate to what extent *you feel that way right now, that is, at the present moment*, *not* necessarily how you feel generally or how you feel on average. Use the following scale to record your answers.

1	2	3	4	5
Very slightly	a little	moderately	quite a bit	extremely
or not at all				
cheerful		jo	yful	
disgusted		ne	ervous	
attentive		lo	onely	
bashful		slo	ееру	
sluggish		ex	xcited	
daring		ho	ostile	
surprised		pr	roud	
strong		ap	preciative	
scornful		jit	ttery	
relaxed		liv	vely	
irritable		as	shamed	
delighted		at	ease	
inspired		sc	eared	
fearless		dr	rowsy	
disgusted	with self	ar	ngry at self	
sad		er	nthusiastic	
calm		do	ownhearted	
afraid		gr	rateful	
tired		sh	neepish	
feeling in	debted	di	istressed	
amazed		bl	lameworthy	
shaky		fee	eling obligated	
happy		to	repay others	
timid		de	etermined	
alone		fr	ightened	
alert		as	stonished	
upset		in	iterested	
angry			athing	
bold			onfident	
blue			eeling like I owe	
shy		ot	thers a favor	
thankful			nergetic	
active			oncentrating	
guilty		di	issatisfied with self	

This scale consists of a number of words and phrases that describe different feelings and emotions. Read each item and then mark the appropriate answer in the space next to that word. Indicate *to what extent you have felt this way the past few weeks*.

1	2	3	4	5
Very slightly	a little	moderately	quite a bit	extremely
or not at all				
cheerful		jo	yful	
disgusted		ne	rvous	
attentive		lor	nely	
bashful		sle	ееру	
sluggish		ex	cited	
daring		ho	stile	
surprised		pro	oud	
strong		app	preciative	
scornful		jit	tery	
relaxed		liv	ely	
irritable		as	hamed	
delighted		at	ease	
inspired		sc	ared	
fearless		dr	owsy	
disgusted	with	an	gry at self	
self			thusiastic	
sad		do	wnhearted	
calm		gr	ateful	
afraid		sh	eepish	
tired		dis	stressed	
feeling inc	debted	bla	ameworthy	
amazed		fee	ling obligated to	
shaky		re	pay others	
happy		_	termined	
timid		fri	ghtened	
alone		as	tonished	
alert		int	terested	
upset		loa	athing	
angry		co	nfident	
bold		fee	eling like I owe	
blue			hers a favor	
shy		en	ergetic	
thankful			ncentrating	
active			ssatisfied with self	
guilty				

DJS

Please respond to the following items in terms of how much you agree or disagree with each statement. With each item, please use the following scale:

1	2	3	4	5	6	7 Channalia
Strongly Disagree						Strongly Agree
						7.g/00
	_I often feel burst					
2	_I consistently fee					
3	_I find that I am o		•	gs.		
4	I can find joy in			1:0 1 :		
5. —	I would say that			n my lite brin	ig me joy.	
6	My life is always					
7. <u> </u>	_Many things brin			raan		
9. <u> </u>	_I would say that I would say that I			18011.		
	Things are going		-	v life		
11				ly IIIC.		
	People have desc			rson		
13.				15011.		
14	I often feel bless					
15.	_		ny life are goi	ng to plan.		
16.	 Even when thing				У.	
17.	_I am often compl	letely over	joyed when s	something go	od happens.	
18	_I feel as though r	ny life has	s been well liv	ved.		
19	_Please mark 1 for	r this state	ement.			
20	_I consistently rec	eive bless	ings that seen	n undeserved		
21	_I frequently feel	like rejoic	ing over som	ething.		
22	_I am a playful pe	rson.				
23	_I often find myse	elf amazed	at all the goo	od things I ha	ve received.	
24	_Long periods of	time go by	in my life w	ithout experient	encing joy.	
25	_I am an intensely	cheerful	person.			
	_Even in the mids	t of bad si	tuations, I car	n usually find	l something to	rejoice
	out.	. 1	1			
	_I would say that					
28	On a typical day,	many eve	ents bring me	Joy.	1:6- :1-:	4 41
	In a typical day,	tnings ofte	en nappen tna	it tell me my	life is working	; out the
	y it should.	l o gybtla	hut andurina	faaling of ior	*	
	_I consistently fee		_			
	I often feel overj I only seem to be	•			•	
54	_1 only seem to be	aute to II	na joy iii a ie	w unings.		

OPINION QUESTIONNAIRE

Please provide your honest feelings and beliefs about the following statements which relate to you. There are no right or wrong answers to these statements. We would like to know how much you feel these statements are true or not true of you. Please try to indicate your true feelings and beliefs, as opposed to what you would like to believe. Respond to the following statements by filling in the number in the blank provided that best represents your real feelings. Please use the scale provided below, and please choose one number for each statement (i.e. don't write in two numbers), and record your choice in the blank preceding each statement.

1	2	3	4	5	6	7	8	9
I strongly disagree		I disagree somewhat		I feel neutral about the statement	I	mostly agree with the statement		I strongly agree with the statement
	_ 1.	I couldn't have	gotten	where I am today v	vithout tl	ne help of many pe	ople.	
	_ 2.	Life has been g	ood to	me.				
	_ 3.	There never see	ems to	be enough to go arc	ound and	I never seem to ge	et my sh	are.
	_ 4.	Oftentimes I ha	ive bee	n overwhelmed at t	he beaut	y of nature.		
	_ 5.	_	impor	nportant to feel goo tant to remember h		-		
	_ 6.	I really don't th	ink tha	t I've gotten all the	good thi	ngs that I deserve	in life.	
	_ 7.	Every Fall I rea	ılly enj	oy watching the lea	ves char	ige colors.		
those	_ 8.	Although I'm b	oasicall	y in control of my	life, I cai	n't help but think al	bout all	
mose	WIIO	have supported	me an	d helped me along	the way.			
	9.	I think that it's	importa	ant to "Stop and sm	ell the ro	oses."		
	_ 10.	More bad thing	s have	happened to me in	my life t	han I deserve.		
me	_ 11.	Because of wha	at I've g	gone through in my	life, I re	ally feel like the w	orld ow	es
IIIC		something.						
	_ 12.	I think that it's	importa	ant to pause often to	o "count	my blessings."		
	_ 13.	I think it's impo	ortant to	o enjoy the simple t	things in	life.		
	_ 14.	I feel deeply ap	preciat	rive for the things o	thers hav	ve done for me in n	ny life.	
	_ 15.	For some reaso	n I don	't seem to get the a	dvantage	es that others get.		
	16.	I think it's impo	ortant to	o appreciate each d	av that v	ou are alive		

Your Experiences Last Week

For the following items we would like you to indicate your opinions and experience *for the last week*, as honestly as you can. For each item, please circle the number that is associated with your response. Please note that the scale changes at item 9.

that the scale c	nanges at item 9	•				
1. In the past	week, how ofte	en have you f	elt joyful?			
1	2	3	4	5	6	7
Not at all	Hardly at all	A few times	Several times	A number of times	Fairly Often	Frequently
2. In the past	week, how often	en have you f	elt like playing	;?		
1	2	3	4	5	6	7
Not at all	Hardly at all	A few times	Several times	A number of times	Fairly Often	Frequently
3. In the past	week, how ofte	en have you f	elt like laughin	ıg?		
1	2	3 ′	4	5	6	7
Not at all	Hardly at all	A few times	Several times	A number of times	Fairly Often	Frequently
4. In the past	week, how ofte	en did you fee	el like rejoicing	g over something?	6	7
l Notes all	2	3	4	5	6	7
Not at all	Hardly at all	A few times	Several times	A number of times	Fairly Often	Frequently
5. In the past	week, how ofte	en have you f	elt like frolicki	ng?	_	_
l Note that	2	3	4	5	6	7
Not at all	Hardly at all	A few times	Several times	A number of times	Fairly Often	Frequently
6. In the past	week, how ofte	en have you f	elt like celebra	~	_	_
1	2	3	4	5	6	7
Not at all	Hardly at all	A few times	Several times	A number of times	Fairly Often	Frequently
7. I felt exube	erant this week.		4	5	6	7
l Not at all	∠ Hardhuatall	3 A few times	Several times	_		/ Frequently
Not at all	Hardly at all			A number of times	Fairly Often	rrequently
8. In the past	week, how ofte	en have you to	elt enthusiastic	; ? 5	6	7
Not at all	∠ Hardly at all	A few times	4 Several times	A number of times	6 Fairly Often	•
	Hardly at all				rainy Oiten	Frequently
9. This week	something hap	pened that I to	elt overjoyed v 4	vith. 5	6	7
Completely Dis	agree	J 1	Neither agree or di		O	Strongly Agree
. ,	ŭ .		Ü	t seemed to fly.		21.21.6.7 1.6.22
10. Because (or the joy rexpe	3	week, time jusi 4	seemed to fly.	6	7
Completely Dis	agree	_	Neither agree or di	_	0	Strongly Agree
. ,			Ü	ipposed to work ii	a my lifa	2
11. IIIIs week	c, unings just we	aren t working 3	g as they are st	ipposed to work ii 5	6 6	7
Completely Dis		_	Neither agree or di		0	Strongly Agree
. ,	ς, I found myse		Ü	Ü		37 87
12. This week	c, i loullu lliyse 2	ii aiiiazeu at t	ine good tilling:	5 Freceived.	6	7
Completely Dis	agree	_	Neither agree or di	_		Strongly Agree
13. This weel	k, I felt like sing	ring.				
1	2	3	4	5	6	7
Completely Dis	agree	١	Neither agree or di	sagree		Strongly Agree
14. This weel	k, good things h	nappened to r	ne that I did no	ot expect.		
	2	3	4	5	6	7
1	_					
1 Completely Dis	agree	١	Neither agree or di	sagree		Strongly Agree
	_		Ü	sagree ch that I lost track	of time.	Strongly Agree

Completely Disagree			Neither agree or disagree			Strongly Agree
16. This week I felt fre		2		-		7
I Completely Disagree	2	3	4 Neither agree or disagree	5	6	7 Strongly Agree
Completely Disagree			Neither agree of disagree			Strongly Agree
17. This week, my wo			is supposed to be.		_	_
Completely Disagree	2	3	A Noither agree or disagree	5	6	7 Strongly Agree
Completely Disagree			Neither agree or disagree			Strongly Agree
18. This week. I felt re	eady to eni	iov what	tever opportunity presented	itself.		
1	2	3	4	5	6	7
Completely Disagree			Neither agree or disagree			Strongly Agree
19. This week I felt un	constraine	ed.				
1	2	3	4	5	6	7
Completely Disagree			Neither agree or disagree			Strongly Agree
20. This week I enjoye		-	that made me completely i	_	-	7
Completely Disagree	2	3	Neither agree or disagree	5	6	7 Strongly Agree
21. I felt like dancing	thic wook		returer agree or disagree			Strongly Agree
1	2	3	4	5	6	7
Completely Disagree			Neither agree or disagree			Strongly Agree
22. Something happer	ned this w	eek that	made me feel like celebrati	ng.		
1	2	3	4	5	6	7
Completely Disagree			Neither agree or disagree			Strongly Agree
23. This week, the rea	lity of my		the way I feel it should be.			
1	2	3	4	5	6	7
Completely Disagree			Neither agree or disagree			Strongly Agree
24. This week, I felt th	ne joy of ir	nagining 3	g new possibilities.	5	6	7
Completely Disagree	_	3	Neither agree or disagree	3	Ü	Strongly Agree
25. This week, I felt th	ne urge to	explore	ŭ ŭ			0, 0
1	2	3	4	5	6	7
Completely Disagree			Neither agree or disagree			Strongly Agree
26. This week, I felt as	s though th	nings in	my life were working as the	y should be	<u>.</u>	
1	2	3	4	5	6	7
Completely Disagree			Neither agree or disagree			Strongly Agree
27. This week, I said t	o myselt, 1 2	"Will thi 3	s week ever end?"	5	6	7
Completely Disagree	2	3	Neither agree or disagree)	U	Strongly Agree
	onnected t	to somet	hing higher than or beyond	my self		87 81
1	2	3	4	5	6	7
Completely Disagree			Neither agree or disagree			Strongly Agree
29. This week, time ju	ıst seemed	l to drag				
1	2	3	4	5	6	7
	_	3		9		
Completely Disagree			Neither agree or disagree	,		Strongly Agree
Completely Disagree 30. This week, I felt from			Neither agree or disagree	5	6	Strongly Agree 7

Completely Disagree		Neither agree or disagree			Strongly Agree
31. This week, my life	went well.	Ç Ç			0,7
1	2 3	4	5	6	7
Completely Disagree		Neither agree or disagree			Strongly Agree
32. This week, life jus	t made sense to r	ne.			
1	2 3	4	5	6	7
Completely Disagree		Neither agree or disagree			Strongly Agree
33. This week, I felt th	e presence of soi	mething much bigger tha	n my self.		
1	2 3	4	5	6	7
Completely Disagree		Neither agree or disagree			Strongly Agree
34. This week, everyth	ning just seemed	to go wrong.			
1	2 3	4	5	6	7
Completely Disagree		Neither agree or disagree			Strongly Agree
35. This week, I was s	urprised by some	thing good.			
1	2 3	4	5	6	7
Completely Disagree		Neither agree or disagree			Strongly Agree
much you agree wit 1 = strongly 2 = disagree	h it.		5 = slightly 6 = agree		
3 = slightly 4 = neutral			7 = strongly	agree	
1. I have so mu	ach in life to be	thankful for.			
2. If I had to li	st everything th	at I felt grateful for, it	would be a	a very lo	ng list.
3. When I look	at the world, I	don't see much to be	grateful for		
4. I am gratefo	ıl to a wide var	iety of people.			
5. As I get oldosituations that have	•	more able to apprecially life history.	te the peop	le, event	ts, and
6. Long amour	nts of time can	go by before I feel gra	teful to son	nething o	or someone.

BFI

Here are a number of characteristics which may or may not apply to you. For example, do you agree that you are someone who *likes to spend time with others*? Please write a number next to each statement to indicate the extent to which you agree or disagree with that statement.

Please use the scale below in your responses.

1	2	3	4	5
Disagree strongly	Disagree a little	Neither agree or	Agree a little	Agree strongly
		disagree		

I See Myself as Someone Who	
1. Is talkative	23. Tends to be lazy
2. Tends to find fault with others	24. Is emotionally stable, not easily upset
3. Does a thorough job	25. Is inventive
4. Is depressed, blue	26. Has an assertive personality
5. Is original, comes up with new ideas	27. Can be cold and aloof
6. Is reserved	28. Perseveres until the task is finished
7. Is helpful and unselfish with others	29. Can be moody
8. Can be somewhat careless	30. Values artistic, aesthetic experiences
9. Is relaxed, handles stress well	31. Is sometimes shy, inhibited
10. Is curious about many different things	32. Is considerate and kind to almost
	everyone
11. Is full of energy	33. Does things efficiently
12. Starts quarrels with others	34. Remains calm in tense situations
13. Is a reliable worker	35. Prefers work that is routine
14. Can be tense	36. Is outgoing, sociable
15. Is ingenious, a deep thinker	37. Is sometimes rude to others
16. Generates a lot of enthusiasm	38. Makes plans and follows through with
	them
17. Has a forgiving nature	39. Gets nervous easily
18. Tends to be disorganized	40. Likes to reflect, play with ideas
19. Worries a lot	41. Has few artistic interests
20. Has an active imagination	42. Likes to cooperate with others
21. Tends to be quiet	43. Is easily distracted
22. Is generally trusting	44. Is sophisticated in art, music, or literature

The following is a series of statements with which you might or might not personally identify. To what extent do you identify with each of the following statements? Please indicate by using the rating scale below. Bubble in each item on the blue sheet provided.

	1 2 3 4 I do not at all dentify with this item						5 I fully identify with this item		
1.	I generally ha	ve a good idea about	the things I do well or	do poorly.	1	2	3	4	5
2.	I have difficul	ty accepting advice fr	om other people.		1	2	3	4	5
3.	I believe there imagination.	e are forces greater th	nan my understanding	and	1	2	3	4	5
4.		ty that exists is what at we can see or hear.	we know from our ser	ises, for	1	2	3	4	5
5.	I try my best i many areas.	n things, but I realize	that I have a lot of wo	ork to do in	1	2	3	4	5
6.	In the broade is small.	r scheme of things, w	hat I will accomplish i	n the world	1	2	3	4	5
7.	Please mark 4	for this statement.			1	2	3	4	5
8.	When I am tre	eated unfairly, I have	a hard time forgetting	about it.	1	2	3	4	5
9.	I am constant	ly seeking ways to be	tter myself.		1	2	3	4	5
10.	I can honestly	assess my strengths	and weaknesses.		1	2	3	4	5
11.	I resist change something.	e even if someone sho	ows me a better way t	o do	1	2	3	4	5
12.	I think often a	bout whether I am b	eing treated fairly.		1	2	3	4	5
13.	I am more en	titled to special privile	eges than others.		1	2	3	4	5
14.	The human m that exists.	ind can comprehend	only a fraction of the	vast reality	1	2	3	4	5
15.	I have a good	sense of what I am n	ot very good at doing.		1	2	3	4	5
16.		egard people's sugges om what I think.	tions on how I should	do things if	1	2	3	4	5
17.	True happines	ss comes from meetir	ng one's own needs.		1	2	3	4	5
18.	I know that I	can learn from other p	people.		1	2	3	4	5
19.	I will never be	happy until I get all t	hat I deserve.		1	2	3	4	5
20.	I look at myse	elf in front of the mirr	or more than most pe	ople.	1	2	3	4	5
21.	I sometimes n	narvel at the abilities	of other people.		1	2	3	4	5
22.	I am blind to r	many of my personal	limitations.		1	2	3	4	5
23.	It makes me f faults.	eel uncomfortable wl	nen someone points o	ut one of my	1	2	3	4	5
24.	I think much a	about contributions th	nat others make to the	e world.	1	2	3	4	5
25.	There are pov		hat are beyond compr	ehension or	1	2	3	4	5

26.	I recognize that there's more to life than the people and places I am familiar with.	1	2	3	4	5
27.	Much I what I do in life doesn't matter much in the "grand scheme of things."	1	2	3	4	5
28.	I am equally excited about a friend's accomplishments as I am about my own.	1	2	3	4	5
29.	I am keenly aware of what little I know about the world.	1	2	3	4	5
30.	My success is completely due to my own effort and ability.	1	2	3	4	5
31.	I often surprise myself by doing better at things than I thought I would.	1	2	3	4	5
32.	When presented with ideas different from my own, I feel enlightened.	1	2	3	4	5
33.	I have trouble believing there is a reality beyond what I can see.	1	2	3	4	5
34.	I am often disappointed with my performance in different situations.	1	2	3	4	5
35.	I have a hard time believing in things that I cannot see.	1	2	3	4	5
36.	I try to reflect on my shortcomings in order to improve myself.	1	2	3	4	5
37.	I see myself as a small part of the workings of the world.	1	2	3	4	5

ochers. Please use	the following items using the number that best reflects your own e the following 7-point scale:								
1 = strong disagreement									
2 = moderate disagreement 3 = slight disagreement 4 = neither agreement nor disagreement									
							5 = slight agreeme		
							6 = moderate agre		
7 = strong agreem	nent								
	feel I'm just more deserving than others.								
	s should come to me.								
	the Titanic, I would deserve to be on the <i>first</i> lifeboat!								
	he best because I'm worth it.								
5. I do not nec	cessarily deserve special treatment. nore things in my life.								
	me deserve an extra break now and then.								
8. Things show									
	ed to more of everything.								
	ed to more or everything.								
Using the scale be number from 1 to	elow, indicate how much you agree with each statement by choosi 7:	ng a							
		_							
1 NOT TRUE	2 3 4 5 6 SOMEWHAT TRUE VERY TRUE	7							
NOT TRUE	SOMEWHAT TRUE VERY TRUE	7							
NOT TRUE 1. My firs	SOMEWHAT TRUE VERY TRUE st impressions of people usually turn out to be right.	7							
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	1	2	3	4	5 -	6		7
NOT T				/IEWHAT TRUE			TRUE	
some w	20. It's al 21. I don 22. I som 23. I neve 24. There ay. 25. I neve 26. I som 27. I alwa 28. I have	right with months and the cover up note have been determined by the cover up note have been determed by the cover laws obey laws as aid somether the cover laws as a somether the cover laws as a somether with the cover laws as a somether laws	doubted e if some ow the re es if I ha ny mista occasion o get eve s, even in	d my ability as a e people happe easons why I do ve to. kes. s when I have to n rather than f I'm unlikely to about a friend	a lover. en to dislike the things taken advant forgive and o get caugh behind his	I do. ntage of som forget. t. or her back		
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interest or wron	ed in you g answe	ur honest fee rs to these it	elings and ems. Ple	GTG indicate how to d reactions to to ease use the sc epresents you	hese stater ale below, a	ments, there and write do	are no r wn the	ight
1 I strongly disagree		3 I disagree somewhat	4	5 Neither agree or disagree		7 :ly agree with statement	8 I stro	9 ngly agree with the statement
1 2 3	Sim of h Wh	ple pleasures ow good Goo	s like a b d has be how goo	erwhelming nu eautiful view o en to me. d others have	r a deliciou	s meal often	remind	
4				bitter toward (God.			

5.		Because my life has been so bad, I have very little to thank God for.
6.		When I see the beauty of new life in the spring I feel very thankful toward
		God.
7.		Please mark 5 for this statement.
8.		More than my share of bad things have happened to me, and this makes
		me bitter toward God.
9.		When I think of what others have done to me in my life, it makes me feel
		bitter toward God.
10.		I really believe that God has rescued me from a horrible life and destiny.
11.		When I think of what others have done for me in my life, it makes me
		appreciate God even more.
12.		I feel very grateful to God when I think of my family.
13.		I think that it's important to regularly remember the good things God has
		done for me.
14.		My life is filled with God's grace.
15.		Life is a wonderful gift from God.
nstr	uction	s: The following is a survey to determine beliefs about grace. Carefully read
each	of the	e following statements and decide how strongly you agree or disagree with
each	. Plea	se fill in the letter on the answer form that best corresponds to your views
abou	ıt grac	e using the following scale:
	A.	Strongly Disagree
	В.	Disagree
	C.	Neither Agree nor Disagree
	D.	Agree
	E.	Strongly Agree
	·	_God's love for me is constant, no matter what I do.
	2	_Those who sin less than others require less grace.
3	3	_I feel like I need to get things in order before I go to God.
4	ŀ	_I need to see remorse before I offer forgiveness.
5	•	
6	'· ——	_I have trouble forgiving myself when I have done wrong.
7) 6	_I have trouble forgiving myself when I have done wrong. _Knowing God will forgive lets me do anything I want.
	5	Knowing God will forgive lets me do anything I want. When I sin or do something wrong, I'm ashamed to go to God or be near
	5 7	Knowing God will forgive lets me do anything I want. When I sin or do something wrong, I'm ashamed to go to God or be near
8	6 7 God	Knowing God will forgive lets me do anything I want. When I sin or do something wrong, I'm ashamed to go to God or be near d.
8	6 7 Goo	Knowing God will forgive lets me do anything I want. When I sin or do something wrong, I'm ashamed to go to God or be near d. I must work hard to experience God's grace and forgiveness.
8 9 1	6 7 Goo 3 0	Knowing God will forgive lets me do anything I want. When I sin or do something wrong, I'm ashamed to go to God or be near I must work hard to experience God's grace and forgiveness. If someone wrongs me, they need to make it right.
8 9 1 1	6 7 Goo 3 0	Knowing God will forgive lets me do anything I want. When I sin or do something wrong, I'm ashamed to go to God or be near d. I must work hard to experience God's grace and forgiveness. If someone wrongs me, they need to make it right. My behavior does not matter since I am forgiven. Because of God's forgiveness, I am free to live my life as I please.
8 9 1 1	6 7 600 8 0 10	Knowing God will forgive lets me do anything I want. When I sin or do something wrong, I'm ashamed to go to God or be near d. I must work hard to experience God's grace and forgiveness. If someone wrongs me, they need to make it right. My behavior does not matter since I am forgiven. Because of God's forgiveness, I am free to live my life as I please.

15.	I am afraid I	am livin	g out of	f God's wi	II for m	y life be	cause o	f choice	es I made
	in the past.								
16.	5Grace is a gift of God; all I have to do is ask.								
17.	I am able to	forgive (others v	when they	/ hurt m	e.			
18.	My acceptai	nce of Go	od's gra	ce has he	lped me	e love o	thers m	ore effe	ectively.
19.	I accept my	shortcor	nings.						
20.	I continue to	feel sha	ame aft	er confes	sing a si	n.			
21.	Because of a	grace be	stowed	to me, I a	ım able	to forgi	ve othe	rs.	
22.	I can live life	my way	as long	g as I ask f	orgiven	ess bef	ore I die	2.	
23.	God's grace	is availa	ble to o	thers, bu	t I have	sinned	too mu	ch to ex	perience
	it.								
24.	I do not exp	erience {	guilt for	any of m	y actior	ıs.			
25.	I have diffict	ulty acce	pting fo	orgiveness	from o	thers.			
26.	The harder I	work, th	ne more	e I earn G	od's fav	or			
27.	My behavio	r does no	ot affect	t my spiri	tuality.				
28.	Even when I	have wi	rong att	itudes, I f	eel I cai	n still ta	lk to Go	d.	
29.	Please mark	B for th	is stateı	ment.					
30.	If I work har	der, I ne	ed less	grace.					
31.	God cares m	ore abo	ut what	I do thar	who I a	am.			
32.	Others must	t earn m	y forgiv	eness.					
33.	The more of	oedient I	am, the	e more G	od loves	me.			
34.	I can be forg	given for	all the	wrongs I'v	ve done	•			
35.	Through Go	d's love,	I can fo	rgive oth	ers.				
	s of <i>how you're</i> to ctually exists? (ple	_	_			•		• .	
0%	10% 20%	30%	40%	50%	60%	70%	80%	90%	100%
l'm complete	lv.			I'm really not sure					l'm completely
confiden	•			whether					confident
God doe not exis				God exists or					God does Exist
not oxio	•			not					ZAIGU
Gende	er (Circle one):	Male	Fe	male	Othe	r			
Age									
-									
Ethnic	city (circle all th	at appl	y):						
Hispanic or Latino American Indian or Alaska Native Asian White									
Black or African American Native Hawaiian or Pacific Islander Other									
Prefer	to not say								

Grade Level (Circle one):

Freshman Sophomore Junior Senior Graduate Other

Family Household Income (Circle one):

Less than \$30,000 \$30,000-\$49,999 \$50,000-\$74,999 \$75,000-100,000

\$101,000-150,000 \$151,000-200,000 >\$200,000

What Psychology courses have you taken?

Appendix B

Consent Form Psychology Experiment

Principal Investigator: Madeline R Greaves, Student, Psychology, Ph. 503-820-9632, madelinegreaves@eagles.ewu.edu

Responsible Project Investigator: Philip C Watkins, Ph.D., Professor, Ph. 509-359-6174, pwatkins@ewu.edu

Investigators statement Purpose and Benefits

This is a study that intends to investigate how having a grateful personality can impact future feelings of joy. This study will help us obtain information about the relationship between joy and various personality traits. This study will be beneficial to you by helping you gain greater knowledge about yourself. This research is being performed for the principal investigator's Master's thesis.

Procedures

In this study you will be asked to complete a packet of questionnaires. The time required to complete these questionnaires should not exceed an hour. The questionnaires being administered ask you various questions about your current feelings and opinions on issues, for example how much you agree with the statement "I only seem to be able to find joy in a few things", I think often about whether I am being treated fairly", and "Life has been good to me." After this initial session, we will administer the questionnaire packet again in two months. This packet will contain similar questions to those in the initial session, and will take 50 to 60 minutes to complete.

Risk, Stress or Discomfort

This experiment involves little or no risk to your emotional or physical well-being, and involves less than minimal risk to your well-being. Completing all of the questionnaires in full may be somewhat lengthy and you may find this to be tiring. Your participation in this experiment is confidential. You may find that some questions relate to sensitive issues (e.g., "I have done things that I don't tell other people about."), however, remember that all of your responses are confidential. You may choose not to answer any question that you find objectionable. Access to information is restricted to the principal investigator, the responsible project investigator, and his research assistants. You may choose to withdraw from this study at any time without penalty. The data obtained in this experiment will be used to promote our understanding of psychological traits. Five years after completion of this study your data will be destroyed via shredding.

Other Information

You will receive class credit for participating in this experiment. Credit received will be commensurate with time spent, and actual amount of credit awarded is up to the discretion of the faculty member who is awarding it. Remember that you have the option to choose another project that is not research oriented. Your participation is completely voluntary and you are free to withdraw at any time without penalty. If you have any concerns about your rights as a participant in this research or any complaints you wish to make, you may contact Ruth Galm, Human Protections Administrator (509-359-7971/6567), rgalm@ewu.edu

Signature of Responsible Investigator	Date	

The study described above has been explained to me, and I voluntarily consent to participate in
this study. I have had the opportunity to ask questions. I am aware that there are other options which I
may receive credit besides participation in this study. I am not waiving any of my legal rights by signing
this form. I understand I will receive a signed copy of this consent form.

Research Participant	 Date

Appendix C

Study Announcement

This study is designed to investigate how different kinds of emotions can impact your future. This will help us obtain information how emotions and other personality characteristics impact you in the future.

If you choose to participate in this study on (date) you will be asked to complete some questionnaires. Some questionnaires will ask about how you are feeling now and how you have felt in the past week. Other measures will ask you to compare yourself and your views to provided statements. In total, this study should not exceed one hour. You will also be asked to complete similar questionnaires again at the end of the quarter, or in about two months. At this second administration, you can volunteer to take the same questionnaires again six months from now online, but this is not required for you to complete your participation in this study.

This study involves little to no risk to your well-being. Completing the questionnaires in full is a somewhat lengthy process and you may find this tiring. Your participation in this study is confidential, and your responses to the questionnaires are also confidential. You may choose to not answer any question or item that you find objectionable. The information can only be accessed by the principal investigator, the responsible project investigator, and the research assistants assigned to this study.

Do you have any questions?

Madeline R. Greaves Curriculum Vita

Education

MS in Clinical Psychology Eastern Washington University, Cheney,

WA

June 2017

BS in Psychology Brigham Young University, Provo, UT

April 2014 Cum Laude

Professional Experience

• <u>Counseling Practicum Student,</u> Counseling and Psychological Services at Eastern Washington University, Cheney, WA. March 2016-June 2017.

- <u>Program Specialist</u>, Eastern Washington University, Cheney, WA. June 2016-June 2017.
- Office Lead, Eastern Washington University, Cheney, WA. November 2015-June 2016.
- <u>City Park Playground Activity Leader</u>, Portland Parks & Recreation, Portland, OR. Summers 2011-2015.
- After-Care Specialist, Sunny Hills Preschool, Beaverton, OR. May 2014-June 2015.
- <u>Teacher Assistant</u>, Brigham Young University, Provo, UT. January-April, 2014.
- <u>Research Assistant</u>, Brigham Young University, Provo, UT. September 2011-April 2014.
- Volunteer Research Assistant, Oregon Health & Science University, Portland, OR. May-August, 2013.

Publications/Presentations

Greaves, M. R. (2016). Defining autism: Social influences and the need for new classification. *Intuition*, 10(2), pp. 2-15.

Lambert, M. J., Fidalgo, L., & **Greaves, M. R**. (2015). Effective humanistic psychotherapy processes and their outcomes. In Cain, D. J., Rubin, S. & Keenan, K. (Eds.) *Humanistic psychotherapies: Handbook for research and practice (2nd ed.)*.

Lambert, M. J. & **Greaves, M. R.** (2014). Routine outcome monitoring in anxiety disorders. In P. M. G. Emmelkamp & T. Ehring (editors), *The Wiley handbook of anxiety disorders, first edition (pp.*706-714). New York, NY: Wiley.

Francis, S., **Greaves, M**., Lobo, A., Perry, C., & Young, N. (April, 2012) *Outcome measures in therapy research.* Presentation at Mary Lou Fulton Conference, Brigham Young University, Provo, UT.

Academic Honors

•	Nicholas T. Curtis Scholarship	Eastern Washington University, Spring Quarter, 2017
•	Academic Tuition Scholarship	Brigham Young University, 2010-2014
•	Dean's Honor List	College of Family, Health, and Social Sciences Brigham Young University, Winter Semester, 2013
•	Phi Kappa Phi	Brigham Young University Chapter, senior inductee, 2013
•	Psi Chi	Brigham Young University Chapter, junior inductee, 2012
•	Golden Key International Honor Society	Brigham Young University Chapter, 2011
•	Phi Eta Sigma	Brigham Young University Chapter, 2011