System Justification and the Defense of Committed Relationship Ideology

by

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I hereby declare that I am the sole author of this thesis. This is a true copy of the thesis, including any required final revisions, as accepted by my examiners.

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Abstract

A consequential ideology in Western society is the uncontested belief that a committed relationship is the most important adult relationship and almost all people want to marry or seriously couple (DePaulo & Morris, 2005). In the present article, I investigated the extent to which the system justification motive may contribute to the adoption of this ideology. In Studies 1 and 2, I examined whether a heightened motive to maintain the status quo would increase defense of committed relationship values. In Study 3, I examined the reverse association, that is, whether a threat to committed relationship ideology would also affect socio-political system endorsement. As past research has found that the justification of political systems depends upon how much these systems are perceived as having control over life outcomes, in Study 4 I tested whether the defense of the system of committed relationships would also increase when framed as controlling. Results from Studies 1–4 were consistent with my hypotheses, but only for men. In Study 5, using cross-cultural data, I sought to replicate these findings correlationally and probe for a cause of the gender effect. Results from over 33 000 respondents indicated a relationship (for men) between defense of the socio-political system and defense of marriage in countries where the traditional advantages of men over women were most threatened. In Studies 6 and 7, I investigated when the gender difference found in the earlier studies disappears. Results revealed that when I measured (Study 6) or manipulated (Study 7) personal relationship *identity* (i.e., how much relationships are part of the active self-concept), rather than relationship ideology, effects also emerge for women.

Acknowledgements

I sincerely thank Aaron Kay and John Holmes for their generous guidance and supervision. This project has been an adventure and I truly appreciate their encouragement and sage advice throughout the process. I would also like to thank my principal supervisor, Michael Ross, for taking a chance and providing me with a strong foundation to answer the social psychological questions I have about the world. I also appreciate the fortunate opportunity to work with and learn from Mark Zanna, Richard Eibach, Ramona Bobocel, and Jaime Napier, as well as receive invaluable advice from Steve Spencer, Joanne Wood, and Gráinne Fitzsimons. I am especially grateful for everyone's patience and understanding as I learned the ropes and found my way. Furthermore, my experience and learning has been gratefully shaped by the many fellow graduate students who have come and gone over the years. I truly feel that I stand on the shoulders of giants. The sensation is both humbling and inspirational.

Finally, I would also like to express my deep gratitude for the support and understanding of my family, friends and loved ones. They have provided me with the continuity, balance and foundation that has enabled me to come this far. Many, many thanks.

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Introduction

"We could be married, and then we'd be happy"

– Brian Wilson, Beach Boys

As reflected in the quotation above, marriage—or the official act of long-term partnership—is often assumed to provide unique benefits, imbuing people's lives with clarity, guidance, happiness, fulfillment, and meaning. DePaulo and Morris (2005) have recently noted this uncontested, and even vociferously defended, set of beliefs, which I refer to here as *committed relationship ideology*. This ideology encompasses most heterosexual relationships that are enduring, secure and romantic in nature. It includes the assumptions that most people wish to get married, and that the committed relationship is the most important relationship, above friendships or other adult relationships. Committed relationships are valued so much that those who attain this status are in many ways considered to be better than those who remain single (DePaulo & Morris, 2005).

This contrast with singles has its costs. While people in committed relationships are often perceived favorably, people who are single are negatively stereotyped as lonelier and less mature, secure, and happy (Morris, DePaulo, Hertel, & Taylor, 2008). Despite little evidence of their veracity (Greitemeyer, 2009), these stereotypes appear to be widely accepted, applied to male and female singles who are as young as 25 years old (Morris et al., 2008) and even to singles who demonstrate social skills by maintaining close friendships (Conley & Collins, 2002). Labelled *singlism* (DePaulo & Morris, 2005, 2006), this longstanding practice of discrimination against singles is still legal in most settings and is only slowly being recognized by the public and media. The first experimental example of singlism was documented only recently, demonstrating the unremorseful discrimination against singles as they search for housing (Morris,

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Sinclair, & DePaulo, 2007). Interestingly, explicit discrimination and stereotyping of singles has been endorsed not only by people in relationships but also by people who are single (Morris et al., 2007; Morris et al., 2008).

It is puzzling that people commonly hold such strong beliefs about the inherent "goodness" of committed relationships and react so negatively to those that challenge them. But there has been relatively little psychological analysis or discussion of this specific ideology, especially when compared to other ideological beliefs, such as political orientation. Why are relationships, and, more specifically, the institution of marriage, so broadly defended? Although there are likely a variety of reasons why this possibly motivated belief persists, few, if any, empirical studies have been devoted to understanding the underlying factors. In this dissertation, I propose that the endorsement and defense of committed relationship ideology may help satisfy epistemic and existential needs that have previously been associated with motivations to believe in a fair and just society (Jost & Banaji, 1994; Jost & Hunyady, 2005).

System justification theory (Jost & Banaji, 1994; Jost, Banaji, & Nosek, 2004) posits that people are motivated to perceive current social, economic and political arrangements as orderly, fair, just and legitimate. One of the primary drivers behind the system justification motive is the motivation to shield one's self from the existential and epistemic threats that would surface if uncertain, illegitimate or disorderly system conditions were acknowledged (Jost & Hunyady, 2005; Kay, Gaucher, Napier, Callan, & Laurin, 2008). Believing that socio-political systems and prevailing hierarchies are just, legitimate, and orderly can protect people from the threats associated with randomness, uncertainty, and injustice. Thus, to the extent that the system of committed relationships is associated with the overarching societal system, it is conceivable that endorsing committed relationship ideology may serve the same needs as endorsing other aspects

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of the system. I suggest that committed relationship ideology may be explained, at least in part, by the system justification motive.

Committed relationship ideology and motivations to maintain the status quo

DePaulo and Morris (2005) have outlined several other possible explanations for the origins of committed relationship ideology. From an evolutionary perspective, desiring a romantic partner, having sex, and producing offspring is adaptive for the survival of the species. Such fundamental needs may partly explain why committed relationships are more valued than being single (Pillsworth & Haselton, 2005). Other accounts suggest this ideology originated from its utility in facilitating social control or creating economic value (DePaulo & Morris, 2005). Regardless of how these beliefs *originated*, one clear contributor to their *maintenance*, according to DePaulo and Morris (2005), is that society does not challenge them. Rather, most members of society endorse these beliefs, either explicitly in their stated opinions or implicitly in their failure to state otherwise (Miller & Ratner, 1998).

The prototypical example of a committed relationship is marriage, a longstanding cultural tradition. Unlike some other traditions and rituals, however, marriage has become an institution that confers legitimacy. People become legally married. This not only implies that society accepts this form of relationship, but it also conveys that larger governing systems have power over this relationship. Marriage is therefore entrenched in the status quo not only as a tradition, but also as a part of a larger governmental framework that reinforces social norms. Given people's tendency to defend the status quo and social norms (Jost & Banaji, 1994; Kay et al., 2009), the institution of committed relationships may benefit from its association with the broader governmental system.

Moreover, much like other phenomena related to system justification, endorsing committed relationship ideology may help people preserve beliefs in control and order, as opposed to randomness and uncertainty (Kay et al., 2008). Socio-cultural systems that offer a sense of order to individuals are much more likely to become legitimized and defended as important components of the status quo (Kay et al., 2008, 2009). The belief that most people should join committed relationships may help alleviate feelings of an uncertain future, replacing unknowingness with a more predictable path and a clear set of life guides. There are also rules associated with committed relationships (e.g., roles, division of labour, courting procedures) that may reduce feelings of disorder. Finally, beliefs about committed relationships may also bolster expectancies of security and stability, especially compared to beliefs about a single life. It is possible, therefore, that as with other elements of the status quo, endorsement of the institution of marriage may help satiate broad needs to believe in an orderly and predictable system.

Recent research on system justification theory has explored the substitutable, hydraulic nature of people's endorsement of seemingly unrelated external systems (such as governments, religions, organizations, etc). This research has demonstrated that external systems that confer order and control to one's social world can be flexibly relied upon to maintain these cherished beliefs of orderliness (Kay et al., 2008; Kay, Shepherd, Blatz, Chua, & Galinsky, 2010). Thus, if beliefs about committed relationships are intertwined with beliefs about other legitimized institutions (e.g., the government, religion) that also confer order to people's lives, then the endorsement of committed relationship ideology should demonstrate a substitutable relation with other aspects of the socio-political system that have traditionally been associated with satiating system justification needs. Threats to these other aspects of the system (such as the government) should cause heightened support for committed relationship ideology, and threats to committed

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relationship ideals (e.g., increasing the salience of high divorce rates, attempts to alter the definition of marriage) should cause heightened support for these other systems. In addition, if committed relationship ideology does help people cope with needs for order and certainty in the same way that other aspects of the socio-political system have been shown to do, then any manipulation that increases perceptions that relationships provide these specific benefits should increase endorsement of relationship ideology.

While there has been much theorizing and investigation of the development of committed relationships (e.g., Kelley, 1983; Murray, Holmes, & Collins, 2006), there have been no experimental investigations of factors that influence support for committed relationship ideology. Given the serious consequences of this ideology—including the derogation of singles, fears of changing the "rules" so as to include same-sex marriage—further research attention is warranted. To this end, I employ converging experimental and correlational methodologies to examine whether relationship ideology defense can be explained, at least in part, by the general motive to defend one's overarching socio-political system.

Gender differences

Given that men and women tend to differ in many important ways with regards to how they think about and identify with traditional romantic relationships, there is reason to believe that the factors that predict relationship beliefs may differ for men and women. Close relationships tend to be more associated with women's identities than men's (Cross & Madson, 1997). As an example, relational self-construal scores suggest that women view their close relationships as more fundamental to the self and as a more intrinsic part of their self-concepts than do men (Cross, Bacon, & Morris, 2000; Guimond, Chatard, Martinot, Crisp, & Redersdorff, 2006). Provided that women are inclined to think about and identify with close relationships

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more than men, it is possible, therefore, that women may also be more likely to increase reliance on their own relationship identities and general beliefs about relationships, when faced with external threat. On the other hand, it is also feasible that men's defense of committed relationship ideology may be more responsive to threat—especially system threat. This reasoning is based on the fact that the social and economic advantages of the overall system are severely skewed towards men (e.g., see Jackman, 1994; Sidanius & Pratto, 1999), an asymmetry thought to be maintained in large part by traditional social roles, stereotypes, values, and norms of male-female dynamics (e.g., Bem & Bem, 1973; Deaux, 1985; Eagly, 1987; Glick & Fiske, 1996, 2001; Jackman, 1994; Jost & Kay, 2005; Pratto & Walker, 2004; Rudman & Glick, 1999). Consistent with this account, data from several different cultures suggests that men, as compared to women, show greater overall support for traditional social structures and hierarchies, and less support for equality (Sidanius, Levin, Liu, & Pratto, 2000; Sidanius, Pratto, & Bobo, 1994). It is possible, therefore, that men may act more defensively than women when the traditional system of gender relations is challenged.

Thus, although I am not offering any straightforward gender-based predictions, it seems that men and women derive unique benefits from relationships. Men may derive more power from the traditional system of relationships, but women integrate individual relationships more deeply into their sense of self. As such, it is conceivable that men and women may differ in the extent to which they defend traditional relationship ideology when it, or the broader system it is intertwined with, comes under attack.

Study 1:

How System Justification Affects the Defense of Committed Relationship Ideology

My objective in the first study was to test whether activating the system justification motive would increase defense of committed relationship ideology. Participants were first exposed to a manipulation of either low or high system threat, to vary the strength of the system justification motive. Just as depriving people of food or drink makes them hungrier or thirstier, and threatening their self or group identity engages self or group protective motives (e.g., Fein & Spencer, 1997; Sherman & Cohen, 2002; Steele & Liu, 1983), threatening the socio-political system through broad challenges to system legitimacy has been shown to activate the system justification motive (Hafer, 2000; Jost, Kivetz, Rubini, Guermandi & Mosso, 2005; Kay, Jost, & Young, 2005). Following exposure to system threat, participants were asked to evaluate research findings that either supported or did not support the common content of relationship ideology. I hypothesized that after exposure to high (but not low) system threat participants would be more critical of research that fails to support relationship ideology compared to research that does. I did not expect participants to be more critical of everything following high system threat, or more critical whenever relationship ideology is not supported. Rather, I expected criticisms of research to increase only following high system threat and only when the research findings do not support relationship ideology.

Method

  Participants. Ninety eight participants (54 women, 42 men, 2 undisclosed; $M = 21.37$ years of age) were recruited from the University of Waterloo campus and participated in exchange for a chocolate bar.[1] Forty-nine were involved in romantic relationships averaging 23.71 months in length ($SD = 16.52$), 47 identified as being single, and 2 did not list their relationship status. Larger ethnic groups included 67.3% White, 19.4% Asian and 3.1% East Indian.

  Procedure. Participants volunteered for a study on "Publicly Relevant Media and Research," under the guise that the researchers aimed to better understand public opinions on this topic. An experimenter, who was blind to condition, handed all participants a booklet and asked them to follow the directions carefully and complete the materials on their own.

  Manipulation of system threat. Participants were first instructed to read one of two possible magazine articles about the lives of Arab-Canadians. These articles were chosen because they have been demonstrated in past research to threaten the legitimacy of the existing socio-political system (Day, Yoshida, & Kay, 2011; adapted from Hahn & Cohen, 2008). Prior research has found that similar system threats activate the system justification motive, but do not affect levels of individual or collective self-esteem (Kay et al., 2005). As seen in Appendix A, this particular article either depicted systematic, unfair discrimination against Arab-Canadians (high system threat) or suggested that Arab-Canadians were not targets of discrimination (low system threat).

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[1] Three additional Arab-Canadian participants (all male) were not included in the final sample due to the specific manipulation of system threat used, which involved descriptions of discrimination against Arab-Canadians. Leaving these participants in, however, did not change the pattern of results and did not cause the main findings to be no longer significant.

Manipulation of committed relationship ideology support. Next, participants were asked to read and provide their opinions of a research report, which was designed to support or not support ideal beliefs about committed relationships (see Appendix B for full descriptions). The research report contained details about a study, including the research goal, method, and conclusions, based on a previously developed paradigm (Ledgerwood, Madisodza, Jost & Pohl, in press; Lord, Ross, & Lepper, 1979; Pomerantz, Chaiken, & Tordesillas, 1995). Participants read that the aim of the study was to investigate the life benefits of being in a long-term relationship. The study descriptions were identical for all participants with the exception of the research conclusions. Participants in the condition in which relationship ideology was supported read the following research conclusions:

The researchers found a link between being in a committed romantic relationship and overall life benefits, compared to singles, for people in their mid-thirties. The researchers found support in this study that suggests long term relationships are beneficial to people's well being. Overall, mid-life adults in relationships are better off than mid-life adults who are single. Specifically, couples reported feeling more secure and stable in their life than single people reported. People in long-term relationships felt they could rely and depend on their partners more than single people could rely on others. In addition, when couples were asked to list personal benefits of being in a relationship they generated more benefits than when single people were asked to list the benefits of being single. Interestingly, couples also felt they were meeting their life goals more than singles, and felt their lives to have improved more than single people reported. Further, in terms of life satisfaction and happiness, people in committed relationships reported being happier than single people. These findings were consistent at Time 1 and at Time 2 (after one year).

Participants in the condition in which relationship ideology was not supported read a similarly worded paragraph about the research but which concluded that there was no link between being in a committed romantic relationship and overall life benefits compared to singles. Participants read that people in relationships did not feel more secure or stable, and did not depend on others more than singles. People in relationships were reported to not meet their life goals or to improve as much as singles, and to be only slightly less satisfied and happy with their lives compared to people who were single.

Research evaluation. After reading the research conclusions, participants also read a series of criticisms about the research, as well as rebuttals purportedly written by the study researchers. Next, participants were reminded that sometimes research can be high or low in quality, and that people can agree or disagree with research. Participants were subsequently given an opportunity to provide criticisms of the research. Specifically, participants were asked to "Please list reasons why you think this study did not support its conclusion, if any. You may list as many reasons as you would like, or none at all." I focused on negative evaluations as past studies have found that people devote more time and effort when criticizing evidence that may be unfavorable (Edwards & Smith, 1996). Evaluations were coded for the number of reasons provided. One male and one female coder, blind to system threat condition, independently counted the number of unique reasons listed by participants. As a small number of participants explicitly referred to different research conclusions in their evaluations, it was not possible for coders to be blind to the relationship ideology manipulation. No participant, however, made any reference to the details of the system threat manipulation in their research evaluations. A reason was defined as constituting one specific idea and could include either general remarks (e.g., "Standard, tried-and-true methodology") or more specific comments (e.g., "The researcher

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should have performed this research on a much wider range of age groups"). Given that such measures are highly susceptible to how much a given individual tends to write, I also provided space for participants to write positive evaluations of the research findings (i.e., reasons why the study did support its conclusion), so that I could control for individual differences in writing style.[2] The order was counterbalanced with the negative evaluations.

Inter-rater reliabilities between coders for evaluations were very good (α's >= .94). Given the acceptable level of reliability, the coders' scores were averaged for data analyses.

 Results

I hypothesized that to the extent that committed relationship ideology is defended to justify the overall socio-political system, participants should criticize the research most when it challenges traditional relationship ideology and they are under system threat. Preliminary analyses in this and all later experimental studies revealed that, consistent with past research (Morris et al., 2008), participants' relationship status did not reveal any main effects or interactions. This was also the case for counterbalancing the positive and negative research evaluations, and thus these conditions were collapsed in the reported analyses.

To test my main hypothesis, the coded negative research evaluations were first submitted to a 2 (system threat: low/high) X 2 (relationship ideology support: not supported/supported) Analysis of Co-Variance (ANCOVA), controlling for individual differences in writing as indicated by the number of positive evaluations. There were no main effects of system threat, $F < 1$, *ns*, or relationship ideology support, $F(1, 93) = 2.36$, $p = .13$. The results also did not reveal the predicted interaction, $F < 1$, *ns*. I then tested whether gender may moderate our hypothesized interaction, using a 2 (system threat) X 2 (relationship ideology support) X 2 (gender:

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[2] Although there was no correlation between positive and negative evaluations in Study 1 ($r = -.03$), there was a positive correlation in Study 2 ($r = .12$), in particular, for men ($r = .25$). Thus, controlling for this factor reduces some of the individual variation related to the open-ended nature of this measure.

female/male) ANCOVA. The three-way interaction was significant, $F(1, 87) = 6.81$, $p = .01$. I further probed the three-way interaction by conducting a separate 2 (system threat) X 2 (relationship ideology support) ANCOVA for women and for men. Estimated means and standard errors can be seen in Table 1. There were no main effects of relationship ideology support or system threat (all Fs < 1.53, ns). For women, there was also no overall significant interaction $F(1, 49) = 2.23$, $p = .14$, but for men, the two-way interaction was significant $F(1, 37) = 5.20$, $p = .03$, and unfolded in the predicted direction.

Table 1
Estimated Means and Standard Errors of Negative Evaluations in Study 1

	Men				Women			
	System Threat				System Threat			
	Low		High		Low		High	
Relationship Ideology	*M*	*SE*	*M*	*SE*	*M*	*SE*	*M*	*SE*
Supported	1.63	0.41	0.92	0.40	1.15	0.38	1.96	0.33
Not supported	1.23	0.39	2.19	0.41	2.06	0.35	1.72	0.38

As seen in Figure 1, when system threat was low, men did not criticize the research more or less as a function of whether the research supported or did not support traditional relationship ideology, $F < 1$, ns. However, under conditions of high system threat—that is, when system justification needs were most salient—men offered significantly more criticisms of the research when it did not support relationship ideology than when it did, $F(1, 18) = 7.44$, $p = .01$. Although my principal measure was based on coded evaluations of total number of arguments, a very

similar pattern or results emerged when conducting the same analyses on the total number of words used in the evaluations.[3]

Figure 1. Men's mean negative evaluation of research that either supported or did not support relationship ideology as a function of low or high system threat in Study 1
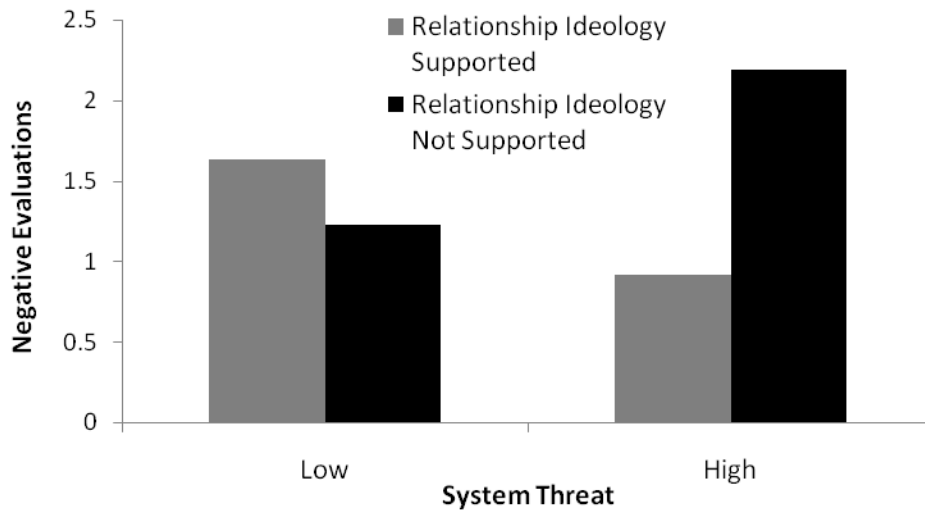
Discussion

Study 1 provided preliminary support for my hypothesis that defense of relationship ideology may be due, in part, to the system justification motive. For men, high system threat led to more critical evaluations of research that did not support relationship ideology, when compared to research that did support relationship ideology. Importantly, men were not simply more critical of everything following a heightened system justification motive, or more critical whenever research findings did not support the value of relationships. Increased criticisms only occurred when the system justification motive was heightened and traditional beliefs in the value of relationships were challenged.

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[3] The two different measures—coded evaluations and total words used—revealed relatively high convergence (r's $>= .77$, p's $< .001$). When conducting ANCOVA analyses using the total number of words used the three-way interaction was significant. When split by gender, the two-way interaction was significant for men, but not women. Finally, the pattern and significance of the simple effects for men mimicked those found when using coded evaluations.

Women's defense of relationship ideology did not strengthen as a function of the system justification manipulation. On the one hand, this gender moderation could reflect authentic differences in the extent to which relationship ideology defense is associated with the system justification motive for men versus women. On the other hand, this result could be spurious, and perhaps due to a peculiarity of the study method. The system threat manipulation employed was different from the one typically used in past system justification research and focused on discrimination toward men more so than women. It is therefore conceivable that men may have found this information more relevant than women. Thus, in Study 2 I used a manipulation that earlier research has shown to induce the system justification motive in both men and women (Cutright, Wu, Banfield, Kay, & Fitzsimons, 2011; Kay et al., 2009; Lau, Kay, & Spencer, 2008).

Study 2:

Replication of the Effect of System Justification on the Defense of Committed Relationship

Ideology

Method

Participants. One hundred and eighteen participants (61 women, 57 men; $M = 21.33$ years of age) were recruited from the University of Waterloo campus and participated in exchange for a chocolate bar. Participants' relationship status was as follows: Forty-four were involved in romantic relationships averaging 21.42 months in length ($SD = 16.62$), 72 identified as being single, and 2 were undisclosed. Larger ethnic groups included 50.8% White, 28% Asian and 5.1% East Indian.

Procedure. The procedure and materials were nearly identical to Study 1 except for the manipulation of system threat. Whereas in Study 1 I used a manipulation involving discrimination and unfair treatment of a specific group, in Study 2 I opted to employ a more general system threat manipulation. Specifically, participants were first instructed to read one of two possible magazine articles on the subject of Canadian society in general. The articles were adapted from Kay et al. (2005) and included a brief description of the current state of Canadian society as suffering economically, politically and socially relative to other countries (high system threat) or functioning well (low system threat).

Next, the same manipulation of relationship ideology and dependent measure were employed as in Study 1. I again expected that to the extent that committed relationship ideology is defended to justify the overall socio-political system, following high (but not low) system threat participants will be more likely to defend relationship ideology.

Evaluation coding. Positive and negative evaluations were coded using the same procedure as Study 1. Reliability between coders was high (α's >= .95); thus mean coded evaluations were used in the subsequent analyses.

Results

As in Study 1, I conducted a 2 (system threat) X 2 (relationship ideology support) X 2 (gender) ANCOVA on the coded negative evaluations, with number of positive evaluations as the covariate. There was a marginal main effect of system threat, $F(1, 109) = 3.61$, $p = .06$, but no main effect of relationship ideology support, $F(1, 109) = 2.12$, $p = .15$. As in Study 1, the three-way interaction between threat, gender, and study condition was significant, $F(1, 109) = 4.64$, $p = .03$. Means and standard errors appear in Table 2.

Table 2
Estimated Means and Standard Errors of Negative Evaluations in Study 2

Relationship Ideology	Men				Women			
	System Threat				System Threat			
	Low		High		Low		High	
	M	SE	M	SE	M	SE	M	SE
Supported	1.21	0.38	0.99	0.31	1.10	0.27	2.21	0.33
Not supported	1.45	0.33	2.19	0.28	1.55	0.29	1.65	0.36

To decompose the three-way interaction I conducted a separate 2 (system threat) X 2 (relationship ideology support) ANCOVA for women and for men. For women, there was a marginal main effect of system threat, $F(1, 56) = 3.68$, $p = .06$. Across conditions women offered more negative evaluations after high (vs. low) threat. The interaction for women was again not

significant, $F(1, 56) = 2.55$, $p = .12$. For men, there was a main effect of relationship ideology

support $F(1, 52) = 9.22$, $p = .004$, and the predicted interaction, $F(1, 52) = 2.84$, $p = .06$.

As seen in Figure 2, I found very similar results to Study 1. In conditions of high system

threat, men offered more negative evaluations of research that did not support relationship

ideology compared to research that supported relationship ideology, $F(1, 31) = 14.48$, $p = .001$.

In conditions of low system threat, no such differences emerged, $F < 1$, *ns*. As in Study 1, I

conducted the same analyses using raw word counts for the criticism section as the dependent

measure. Again, the same 3-way and 2-way interactions emerged, in which the predicted effect

only occurred for men.[4]

Figure 2. Mean level of negative evaluation by men following exposure to research that
supported or did not support relationship ideology for low and high system threat conditions in
Study 2

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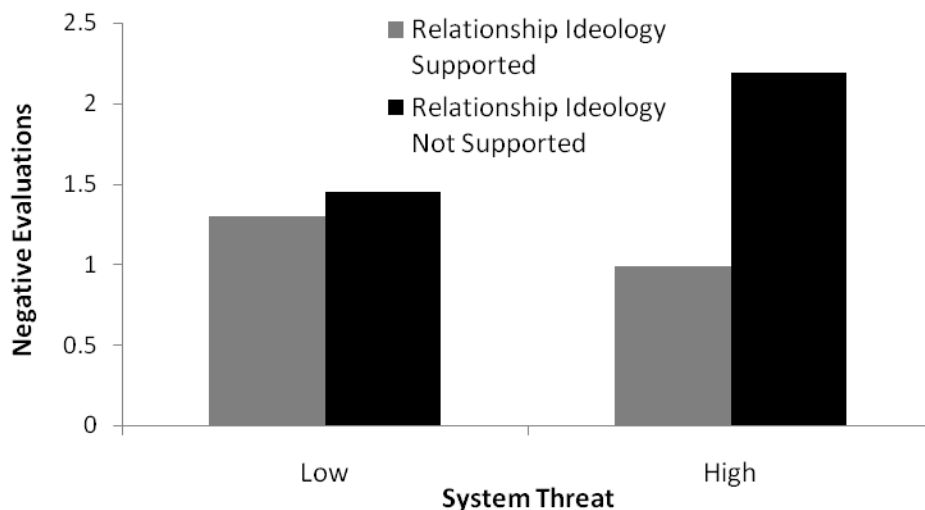
[4] I also conducted analyses examining modified versions of the covariates used in Studies 1 and 2. There are
alternative covariates available that may also be used to indicate participants' general word use, e.g., positive
evaluation total word count, and positive evaluation word count per argument provided. When either of these
alternative covariates are used in Study 1, all of the main results remain significant. In Study 2, the three way
interactions remain significant, but the two-way interactions for men become largely marginal ($Fs = 2.06$, 1.82, ps
$= .16$, $.18$). However, exploring the simple effects for men revealed the predicted results in the high system threat
condition ($Fs = 8.03$, 6.06, $ps = .006$, $.02$).

Discussion

The results of Study 2 were consistent with those of Study 1. The hypothesized pattern of results was again found among men but not women. Using a different manipulation of system threat, it was observed that men, but not women, increasingly defended relationship ideology following system threat, providing more negative evaluations of research findings that did not support relationship ideology. Again, men were not simply more critical of everything following system threat, nor were they more critical whenever research findings did not support the value of relationships. Rather, increased criticisms only occurred when the system justification motive was heightened and traditional beliefs in the value of relationships were challenged.

Although I did not predict this pattern of gender moderation, the converging evidence from Studies 1 and 2 strongly suggests my original hypothesis may apply more to men than women. I will, however, continue to include both men and women in the remaining studies I present, so as to assess the consistency of this pattern of gender moderation.

In Study 3 I used an alternative, yet conceptually similar approach to examine whether system justification motives may be involved in relationship beliefs. If, as I suggest, relationship ideology is supported and defended because it is associated with the overarching socio-political system which people are motivated to defend, then just as threatening the generalized system leads to increased defense of relationship ideology, threatening the system of committed relationships should lead to increased defense of the over-arching socio-political system. Given the results of Studies 1 and 2, I suspect this might only occur for male participants.

There is reason to believe that relationship ideology threat will influence attitudes towards the overall system because these are both systems that are relevant to the socio-political hierarchy within which these participants exist. To be more certain that these findings reflect this

specific association, and not a simple tendency to just bolster anything after threat, I also included a measure that assesses attitudes toward a system mostly irrelevant to the participants' lives: the entertainment industry. The functioning of this unrelated system has little influence on the social order of the participants' lives. If I find men more resolutely defend the socio-political system, but not the entertainment system, following a threat to relationship ideology, I can be more confident that this effect is due to the system justification motive.

Study 3:

How Committed Relationship Ideology Affects System Justification

Method

Participants. Fifty nine participants (28 women, 31 men; $M = 20.57$ years) were recruited from the University of Waterloo campus and participated in exchange for a chocolate bar. Twenty three were involved in romantic relationships averaging 28.22 months in length ($SD = 65.74$), and 36 identified as being single. Larger ethnic groups included 54.2% White, 22% Asian, and 10.2% Middle Eastern.

Procedure. Participants volunteered for a study on "Media and Politics." After agreeing to participate, an experimenter, who was blind to condition, gave participants a booklet containing the study materials. Participants were asked to follow the directions carefully and complete the materials on their own. Participants first read and evaluated an article designed to threaten the stability of the institution of committed relationships. Afterwards, participants were asked about their opinions on politics in general, as well as on the entertainment industry. The former was measured via an established measure of system support (Kay & Jost, 2003) and the latter served as an unrelated comparison system.

Committed relationship ideology threat. Participants were presented with information that either suggested that the institution of committed relationships was stable and strong (low relationship ideology threat) or unstable and fragile (high relationship ideology threat). Participants in the high threat condition were asked to read a newspaper article titled "The era of 'not so' committed relationships." The article depicted the trend of divorce rates, as well the number of people remaining single, as increasing. It suggested that this may be the case because people no longer valued committed relationships as much as in the past. In the low threat

condition, participants were exposed to a very similarly worded newspaper article, titled "The era of committed relationships," but with an emphasis on the continuation of committed relationships. Participants read that many marriages and committed relationships succeed, and that despite divorce being more freely allowed, monogamy is a still a viable and valued option (see Appendix C for a full description of this manipulation).

Dependent measures. After reading the newspaper article, participants were asked their opinions on politics and entertainment. These measures indexed endorsement of the Canadian socio-political system and endorsement of an irrelevant system—the entertainment industry. For the former, an established measure of socio-political system support was employed (Kay & Jost, 2003), in which participants were asked to indicate their agreement with eight system justifying statements ($\alpha = .87$), on a 9-point scale (1 = *strongly disagree*, 9 = *strongly agree*). Example statements include "In general, Canadian society is fair," and "Canadian society needs to be radically restructured," (reverse scored). For the latter, a 5-item measure of the entertainment industry was created ($\alpha = .60$), in which participants were asked to indicate their agreement with five statements regarding the functioning of the entertainment industry. Example items included "The music business does a good job at promoting its musicians," and "The entertainment industry is managed very carefully."

Results

A 2 (system type: socio-political/entertainment) X 2 (relationship ideology threat: low/high) X 2 (gender: female/male) mixed ANOVA was conducted with repeated measures on the first variable. I hypothesized that compared to a low threat to the system of committed relationships, following a high threat, men, but not women, should show heightened defense of the socio-political system. I also hypothesized that these same threats to the committed

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relationship system would not influence defense of a theoretically unrelated system. Results

revealed that there was a within-participants main effect for the type of system condition $F(1, 55)$

$= 11.94$, $p = .001$, which indicated generally higher endorsement scores for the socio-political

system ($M = 5.98$; $SE = 0.16$) than the entertainment system ($M = 5.31$; $SE = 0.16$). Importantly,

the predicted three-way interaction also attained significance, $F(1, 55) = 3.95$, $p = .05$. Means

and standard errors can be found in Table 3.

Table 3
Means and Standard Errors of System Endorsement, Study 3

	Men				Women			
	System				System			
	Entertainment		Socio-political		Entertainment		Socio-political	
Relationship Ideology Threat	*M*	*SE*	*M*	*SE*	*M*	*SE*	*M*	*SE*
Low	5.29	0.30	5.53	0.29	4.75	0.33	5.54	0.32
High	5.50	0.33	6.88	0.32	5.63	0.33	5.98	0.32

To further examine my hypothesis, I conducted a separate 2 (system type) X 2

(relationship ideology threat) mixed-model ANOVA for women and for men. Results revealed

that, again, the two-way interaction was not significant for women $F < 1$, *ns*, but was significant

for men $F(1, 58) = 4.44$, $p = .04$. As seen in Figure 3, the interaction unfolded as predicted for

male participants. Those in the high relationship ideology threat condition endorsed the socio-

political system to a greater extent than those who learned that relationships were not under

threat, $F(1, 29) = 7.44$, $p = .01$. The threat manipulations had no effect on men's endorsements of

the irrelevant, entertainment system, $F < 1$, *ns*.

Figure 3. Men's mean level of system endorsement following exposure to low vs. high relationship ideology threat in Study 3
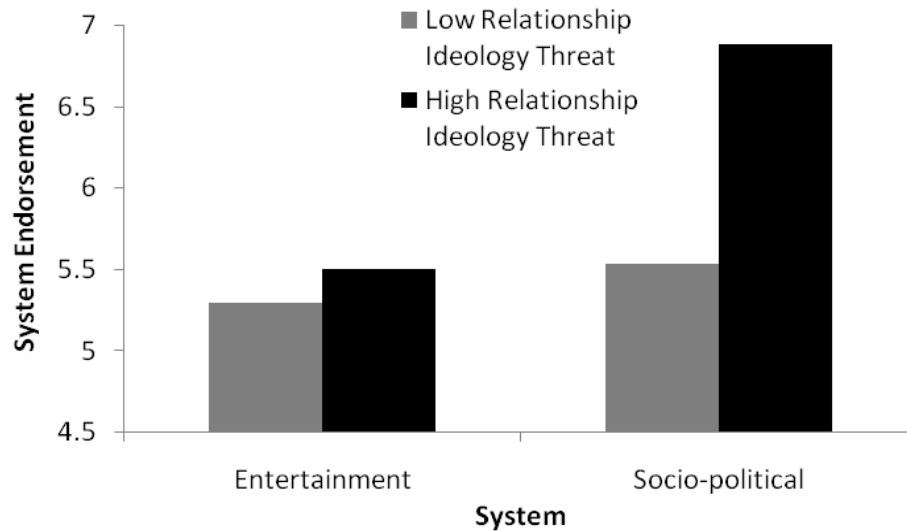
Discussion

I have proposed that the institution of committed relationships, as a component of the broader socio-political system, is defended so staunchly at least in part because it represents a means of satisfying the system justification motive. In support of this reasoning, Studies 1 and 2 demonstrated that, for men, threatening the legitimacy of the socio-political system increased defense of committed relationship ideology. However, if relationship defense and generalized system defense both satisfy the same motive, then this relationship should be bi-directional: threatening the system of committed relationships should increase defense of the generalized socio-political system. The results of Study 3 support this logic. Following a threat to committed relationship ideology, men bolstered support for the overarching socio-political system. This effect of threat did not occur, however, for women. Threatening the system of committed relationships had no effect for men or women for measured responses to an irrelevant system, the entertainment industry.

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This predicted null effect for the system-irrelevant measure, however, should be interpreted with caution as its internal consistency was only mediocre. This introduces the possibility that an effect was not observed for this measure because of the looseness of the relationship among the individual items. Two observations, however, limit my concern in this regard. First, there are no effects of the threat manipulation on any of the five individual items (all $Fs < 1.14$, ns). This suggests that the lack of an overall effect across the items was not due to noise introduced by some of the specific items. Second, because of the low alpha, I conducted follow-up analyses on a separate sample of participants (N = 36) who were exposed to the same relationship ideology manipulation, but evaluated a different unrelated system. These participants were asked to rate the legitimacy of a company that was different from their own place of employment, but where they knew an employee. Using rating scales, they indicated how well the company was operating and how well, fair, and equally it treated its employees (4-items, $\alpha = .94$). This measure was also unaffected by the relationship ideology threat, $F < 1$, ns. In addition, the result of this follow-up sample helps address a possible concern with the order of the socio-political and entertainment measures, where participants' psychological needs may have been satiated by the socio-political measure that was measured first. Specifically, in the additional sample, even when an unrelated system was measured directly after the relationship ideology threat (i.e., without intervening items), there was no significant effect.

The results of Studies 1-3 provide converging support for my modified hypothesis. Across these three studies it was observed that, for men, threats to the legitimacy of the socio-political system influence the defense of relationship beliefs, and threats to relationship ideology influence the defense of the generalized socio-political system. In other words, for men but not women, relationship ideology appears to be intertwined with broader system justification needs.

Study 4:

Relationships as a Perceived Source of Structure, Order and Control

Past work on system justification has demonstrated that systems are defended, in part, because they provide a sense of predictability and order in a sometimes unpredictable world, that is, they can serve as an external source of control (Jost & Hunyady, 2005; Kay & Jost, 2003; Kay, Shepherd, et al., 2010; see also Lerner, 1980). Thus, a more specific way to examine whether the system justification motive influences the defense of committed relationship values would be to assess whether perception of relationships as a means of external control contributes to the defense of this ideology. I define control as the order, structure and predictability that relationships can potentially provide people's lives. By imbuing people's lives with order and structure, relationships can represent another external system that suggests that what happens to a given individual, whether good or bad, is not random, but instead controlled by clearly defined systems. As such, believing in traditional relationship ideology may represent a useful means of protecting oneself from uncertainty and randomness, just as is the case with religious and political systems (Kay, Gaucher, McGregor, & Nash, 2010). This version of control aligns with close relationship research, where relationships are often discussed in terms of the security and stability they bring to people's lives (e.g., Milkulincer & Shaver, 2005).

If the potential control and order provided by relationships does in fact contribute to the defense of this institution, then I should observe increased relationship defense amongst those led to believe that relationships indeed offer more control. In addition, if this effect is due to the same motivational system observed in Studies 1-3, then it should occur most strongly for men. Study 4 tests these propositions.

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Method

  Participants. Ninety undergraduates (45 women, 45 men; 21.88 years of age)

participated in exchange for a chocolate bar or as partial fulfillment of course credit. Forty-four

were involved in romantic relationships averaging 29.35 months in length (*SD* = 29.75), 45

identified themselves as single, and 1 undisclosed. Larger ethnic groups included 45.6% White,

42.2% Asian, and 7.8% East Indian.

  Procedure. Participants were asked to read and evaluate research materials ostensibly for

a psychology textbook being designed for high school students. Specifically, the textbook

authors wanted university students' opinions on what would be most interesting and relevant.

Participants were told that the materials would be on the topics of relationships and positive

psychology.

  Manipulation of relationship control. Participants were first asked to read a research

abstract about relationships. This abstract presented results that suggested relationships can

control well-being, and offer order and stability (relationships exert control), or found no such

association (relationships do not exert control). In the relationships exert control condition,

participants read the following:

  According to a vast array of research, people's level of happiness is strongly connected

  with the quality of their committed relationships. According to research on dating and

  married couples by Holmes (2004), whether peoples' relationship functions smoothly or

  not in large part will determine their happiness; successful relationships breed more

  happiness and unsuccessful relationships breed less happiness. Surprisingly, the influence

  of relationship quality for personal happiness is considerably stronger than the influence of

work or leisure activities on happiness. Also, peoples' sense of stability and order depends

on the quality of their relationship.

In the relationships do not exert control condition the abstract was similar, but without the

control-related associations of relationships. Participants read that people's level of happiness is

not connected with the quality of their committed relationships, and instead overall happiness is

tied more closely to domains related to their identities, such as work or leisure (see Appendix D).

Test of relationship control manipulation. I conducted a pilot study (N = 28) to assess

whether the manipulation had the intended effects. That is, whether the manipulation did

increase participants' sense that relationships, in general, do exert control and provide structure

to people's lives, but do not influence perceptions of the positivity of participants' own personal

relationships. Pilot participants in the relationships exert control condition indicated that, if they

were in a committed relationship, their level of happiness would be more based on the good or

bad quality of the relationship, $t(26) = 3.29$, $p = .003$, and less based on factors external to the

relationship, $t(26) = 2.55$, $p = .02$, than those in the relationships do not exert control condition.

In other words, participants in the relationships exert control condition perceived well-being as

more dependent on relationships. Furthermore, participants did not differ as function of condition

when asked whether their personal committed relationship would be of high quality, $t(26) = 0.48$,

$p = .63$, or would bring them happiness, $t(26) = 1.16$, $p = .26$. Together, these findings indicate

that the manipulation strongly heightened participants' beliefs that relationships do exert control

over people's lives, without influencing general positive expectations of participants' own

relationships.

Committed relationship ideology. Participants were told that textbook authors

purportedly wanted to better understand how representative a previously collected sample of

opinions on committed relationships were of the population (for use in the textbook). Participants were then asked to read each opinion and indicate how much they personally agreed with the statement (1 = *strongly disagree*, 9 = *strongly agree*). These twelve opinion items comprised my measure of committed relationship ideology endorsement (α = .81). The statements were designed to be characteristic of committed relationship ideology, as described by DePaulo and Morris (2005). The measure included statements such as "Most of my single friends would be better off in a committed relationship," "There are very few major downsides to being in a committed relationship," "The concept of a committed relationship is the ultimate answer," "Committed relationships are overrated" (reverse scored), "Single people are missing out," and "Becoming involved in a committed relationship is the right thing to do." See Appendix E for the complete measure.

Results

Committed relationship ideology scores were submitted to a 2 (relationship control: exert control/do not exert control) X 2 (gender: female/male) between subjects ANOVA. Means and standard deviations can be seen in Table 4. I hypothesized that men's endorsement of relationship ideology would be higher when participants were led to believe that relationships do exert control to their lives, compared to when they were led to believe they do not. No effect was expected for women.

Table 4
Means and Standard Deviations of Relationship Ideology Endorsement in Study 4

Condition	Men		Women	
	M	*SD*	*M*	*SD*
Relationships Exert Control	5.97	1.04	5.04	1.03
Relationships Do Not Exert Control	5.03	1.28	5.04	1.01

Results indicated a main effect of the manipulation, $F(1, 86) = 4.08$, $p = .05$, such that participants in the relationships exert control condition endorsed relationship ideology to a greater extent than participants in the relationships do not exert control condition. There was also a main effect of gender, $F(1, 86) = 3.91$, $p = .05$, indicating that men support relationship ideology more than women. However, as seen in Figure 4, these main effects were qualified by the predicted Gender x Condition interaction $F(1, 86) = 4.16$, $p = .04$. Simple effects analyses revealed that although women's endorsements of relationship ideology were not affected by the experimental manipulation ($F < 1$, ns), men endorsed relationship ideology more strongly when relationships were framed as exerting control, as compared to when they were framed as not exerting control, $F(1, 43) = 7.27$, $p = .01$.

Figure 4. Men and women's mean relationship ideology endorsement as a function of relationships that exert control and relationships that do not exert control in Study 4
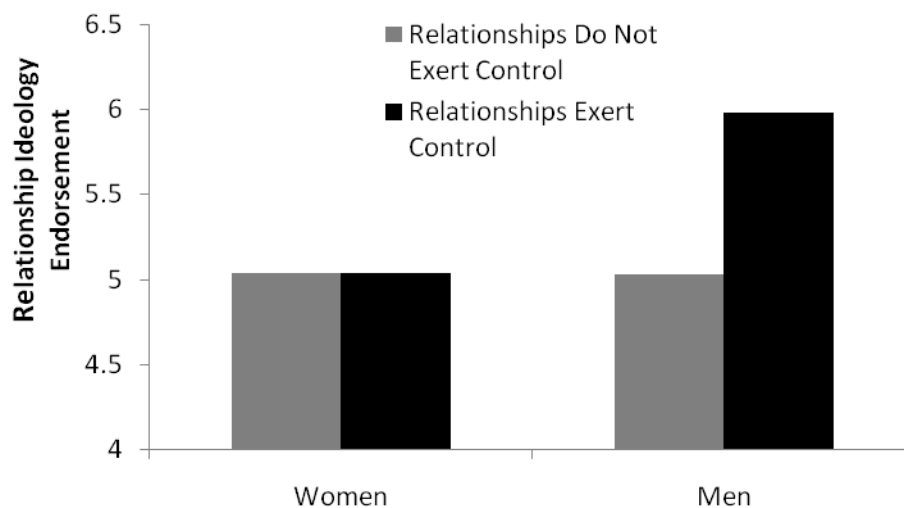
Discussion

In Study 4, I hypothesized that one reason why the defense of committed relationship ideology may be connected with the broader system justification motivation is because

relationships, like other aspects of the socio-political system, provide people with a sense of order and structure. Results confirmed my predictions. Participants led to believe that relationships offered control and structure more strongly supported committed relationship ideology than participants led to believe relationships do not offer control and structure. As in Studies 1-3, this effect was found for men but not women, suggesting the same general process observed in Studies 1-3 is again occurring.

Why, across these four studies, have there been consistently effects for men but not women? Why might relationship ideology be associated with broader system justification needs for men more so than women? One potential explanation for the repeated gender moderation could be that women were simply higher than men in their support of relationship ideology and that, therefore, men had room to increase their scores following the system threat manipulation but women did not. Women and men, however, were not evincing greatly different levels of support for relationship ideology in these studies; men were simply more responsive to the system manipulations than women, making such an explanation unlikely.

A more promising explanation may be that for men the traditional system of relationships is a key component to maintaining their social and economic advantage relative to women. Given that relationships, along with many other aspects of the social, political and economic system, tend to confer considerable power advantages to men (Jackman, 1994), a threat to the traditional relationship dynamic may be more psychologically threatening to the broader type of system men hope to maintain, that is, one that advantages them (Sidanius & Pratto, 1999). This is consistent with reasoning of gender theorists who have discussed the multitude of ways in which traditional forms of gender relations benefit men more than women (e.g., Glick & Fiske, 2001; Rudman & Glick, 1999). As such, for men, but not necessarily women, the traditional system of

gender relationships may be strongly linked to their general beliefs about the status quo, whereas for women, their beliefs about gender relationships may be separate from their broader political beliefs, related perhaps more to their personal identities (a possibility I examine in Studies 6 and 7).

If this is in fact the case, then the relationship between support for the socio-political system and relationship ideology for men may be strongest in contexts in which the traditional male advantage is most precarious and under threat—namely, cultures with the highest levels of gender equality. In other words, as women receive more equal rights, pay, positions of status, and so on, advantages diminish for men, and they may be more likely to defend institutions that can help preserve their advantage. In Study 5, I tested this notion. I also sought to examine if the findings from Studies 1-4 would conceptually replicate correlationally and cross-culturally.

To do so, I assessed motivations to defend the political system, defense of committed relationships (i.e., marriage), and country-wide levels of gender equality in 29 countries. A three-way interaction, in which system justifying beliefs (i.e., defense of the political system) predict defense of the institution of marriage most strongly for men (as compared to women) in contexts of relatively high (as compared to relatively low) levels of gender equality, was hypothesized.

Correlational and Cross-Cultural Replication and Extension Using the World Values

Survey

Method

I analyzed data from the fourth wave of the World Values Survey (2006), which was administered from 2000 to 2004. Data for the variables of interest were available for nationally-representative samples from 29 different countries, yielding a total of $n = 33,018$ respondents. Table 5 lists the nations used in our analysis.

I used the United Nations Development Programme's (UNDP; 2000) Gender Empowerment Measure as our measure of national gender inequality. The Gender Empowerment Measure is a composite indicator that captures gender inequality in political decision-making (e.g., percentage of Parliamentary seats held by women) and economic participation (e.g., women's share of earned income; UNDP, 2000, p. 168). The overall index ranges from 0 to 1, such that 0 denotes complete gender inequality and 1 denotes complete gender equality.

Gender was dummy coded such that $0 = $ male and $1 = $ female. Rating of the political system was assessed with a single item that read, "People have different views about the system for governing this country. Here is a scale for rating how well things are going: "1" means very bad; "10" means very good. Where on this scale would you put the political system as it is today?" Defense (vs. rejection) of marriage was assessed with a single item that asked respondents whether they agreed or disagreed with the statement "Marriage is an outdated institution." Responses were coded such that $0 = $ agree and $1 = $ disagree. The descriptive statistics for these latter two variables can be seen in Table 5.

Table 5

The United Nation's Gender Equality Measure (GEM), Means (and Standard Deviations) of Political System Ratings, and Frequency of those who Defend (vs. Reject) the Institution of Marriage for 29 Countries from the World Values Survey in Study 5

Country	GEM	Political System Rating (1-to-10)	% Defend (vs. Reject) Marriage
Jordan	0.22	6.02 (2.26)	87.5%
Turkey	0.32	2.91 (2.03)	91.4%
Romania	0.41	3.66 (2.30)	87.5%
Ukraine	0.42	3.40 (1.94)	82.7%
Russian Federation	0.43	2.57 (1.69)	79.4%
Peru	0.45	5.56 (2.47)	80.0%
Greece	0.46	4.80 (2.00)	84.3%
Hungary	0.49	3.95 (1.88)	83.8%
Poland	0.51	3.98 (1.91)	90.9%
Croatia	0.52	3.37 (1.95)	85.3%
Italy	0.52	4.26 (1.89)	83.0%
Slovenia	0.52	4.39 (1.91)	72.6%
Lithuania	0.53	3.22 (2.09)	79.5%
Slovakia	0.53	3.81 (1.85)	88.5%
Czech Republic	0.54	4.33 (.1.80)	84.4%
Estonia	0.54	4.70 (1.73)	83.7%
Latvia	0.54	4.37 (1.73)	83.6%
Ireland	0.59	5.76 (2.10)	79.5%

Spain	0.62	5.65 (1.90)	79.1%
Portugal	0.62	5.90 (1.75)	75.4%
Great Britain	0.66	5.26 (1.77)	72.8%
Austria	0.71	5.78 (1.89)	81.0%
Belgium	0.73	4.81 (1.94)	69.1%
Netherlands	0.74	6.28 (1.41)	74.7%
Finland	0.76	5.87 (1.79)	80.9%
Germany	0.76	6.08 (2.05)	79.8%
Denmark	0.79	5.12 (2.02)	78.8%
Sweden	0.79	5.18 (1.95)	79.8%
Iceland	0.80	6.05 (1.72)	89.2%

Note. The GEM ranges from 0 to 1, where 0 = absolute inequality and 1 = absolute equality.

In addition to the variables of interest, I adjusted for several demographic variables in our model, including income (3 intervals); education (3 intervals); age (6 intervals); and marital status (dummy codes for single, divorced, and widowed, as compared to married). In addition, I adjusted for the natural log of each country's gross domestic product per capita (GDP) on the nation-level. All of the non-dummy-coded variables in the model were centered on their group mean.

Results

I conducted a random and fixed effects logit-linked multilevel model predicting the defense (vs. rejection) of marriage with national level gender equality, the political system rating, gender, and all two- and three-way interactions of these variables, as well as the adjustment

variables. As shown in Table 6, after adjusting for national wealth (i.e., GDP), there was no main effect of national level gender equality on marriage defense, $b = .25$, $SE = .57$, *ns*. Women were more likely than men to endorse the idea of marriage, $b = .15$, $SE = .02$, $p < .001$; this was true regardless of the societal context, as shown by the non-significant interaction between gender and national gender equality, $b = .03$, $SE = .11$, *ns*. In addition, results revealed that there was a significant positive relationship between political system ratings and defense of marriage, $b = .05$, $SE = .01$, $p = .001$. This was further qualified by significant two-way interactions with gender, $b = -.03$, $SE = .01$, $p = .01$, and national gender equality, $b = .29$, $SE = .04$, $p = .001$, as well as the predicted significant three-way interaction between these variables, $b = -.14$, $SE = .03$, $p = .001$. I probed the two- and three-way interactions at high and low levels of national gender equality (one standard deviation above and below our sample mean) for both men and women using the online tools provided by Preacher, Curran, and Bauer (2006). As seen in Figure 5, results revealed that in countries with high gender inequality, there was no reliable relationship between political system rating and defense of marriage among men ($b = .01$, $SE = .01$, *ns*) or women ($b = .00$, $SE = .01$, *ns*). In countries with high gender equality, by contrast, the political system rating was positively and significantly associated with marriage defense. Simple slopes analyses showed that this relationship was significantly stronger among men, $b = .09$, $SE = .01$, $p = .001$, as compared to women, $b = .04$, $SE = .01$, $p = .001$.

Table 6

Estimated Fixed Effects (and Robust Standard Errors) From a Random and Fixed Effects Population-Average Non-linear (Logit) Multilevel Model Predicting Defense of Marriage in 29 Countries in Study 5

<u>Nation-level predictors</u>

Intercept	1.63 (.06)***
Gender Equality	.25 (.57), *ns*
GDP per capita (log)	-.34 (.09)***

<u>*Individual-level predictors*</u>

Education	.09 (.03)**
Income	.05 (.02)*
Age	.12 (.02)***
Single (vs. married)	-.56 (.05)***
Divorced (vs. married)	-.96 (.05)***
Widowed (vs. married)	-.09 (.03)**
Female (vs. male)	.15 (.02)***
Political System Rating	.05 (.01)***
Political System Rating X Gender	-.03 (.01)**

<u>Cross-level interactions</u>

Gender X Gender Equality	.03 (.11), *ns*
Political System Rating X Gender Equality	.29 (.04)***
Political System Rating X Gender X Gender Equality	-.14 (.03)***

Note. *** $p < .001$ ** $p < .01$ * $p < .05$ † $p < .10$ *ns, $p > .10$*

Figure 5: Defense of marriage as a function of political system rating and participant gender, at high and low (i.e., 1 *SD* above and below the mean) level of gender equality in Study 5.
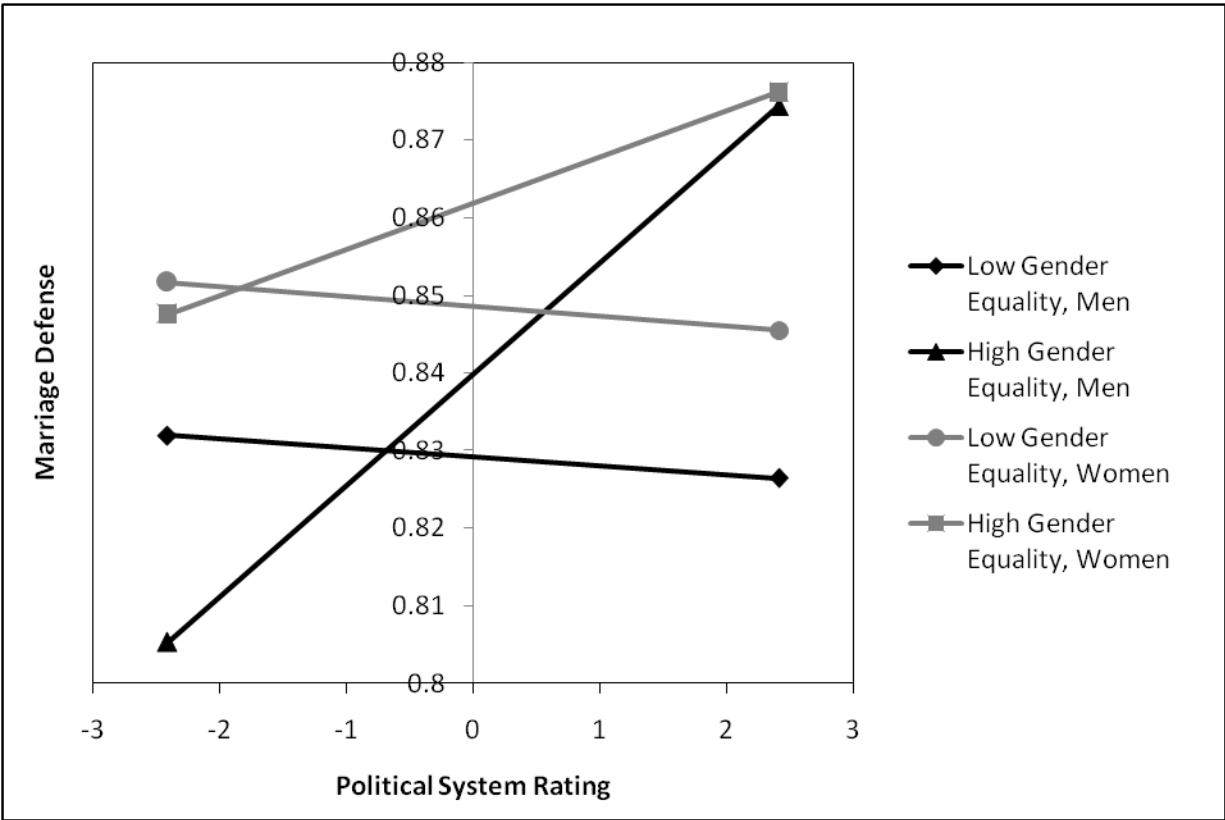
Discussion

Thus, Study 5 provides both a cross-cultural, correlational replication of the pattern of data observed in Studies 1-4, as well as initial evidence for what may underlie the pattern of gender moderation that has been repeatedly observed. In those countries in which the traditional dominance of men over women is most under threat, an association between support for the political system and defense of the institute of marriage was observed for men. A still significant, but weaker relationship was found for women. These results once again suggest that, for men more so than women, ideological support for the institution of marriage is interconnected with broad motivations to defend the socio-political system.

These findings may suggest the joint operation of both system justification and social dominance motivations. That is, men appear to be defending traditional relationship ideology not only because of its relation to the larger socio-political system that people are motivated to defend (Jost & Banaji, 1994), but also because of its utility in preserving male dominance (Sidanius & Pratto, 1999). Whereas the hydraulic relation between support for political and relational systems observed in Studies 1-4 is unique to system justification theory (e.g., Jost, Ledgerwood, & Hardin, 2008; Kay, Shepherd, et al., 2010; Wakslak, Jost, & Bauer, in press), the fact that this effect is strongest for men, especially when their dominance is most under threat, fits well with a social dominance approach (Sidanius & Pratto, 1999).

But what about women? It is clear that women's endorsement of relationship ideology is not substantially affected by those variables that have typically induced the system justification motive in men and women alike. Why might this be? One possibility is that, for women, who view close relationships (e.g., romantic partner, best friend) as central to their identity (Cross et al., 2000), their support for relationship ideology may be more influenced when they are considering their personal relationships or when threats are targeted towards them personally. Men may not have excluded relationships from their broader ideological sphere (Baumeister & Sommers, 1997; Gabriel & Gardner, 1999), allowing them to forge connections between their political beliefs and their relationship beliefs that women may be less likely to make. To the extent this is so, when participants are focused on their own personal relationships, an association between system-related motivations and committed relationships may exist for women. Thus it may be the case that in response to threatening conditions of the socio-political system, women may turn to their own close relationships as a trusted source of security and stability, instead of a broader committed relationship ideology.

I test this general idea in Studies 6 and 7. In Study 6, I activated the system justification motive by threatening the overarching system and then measured participants' identification with their romantic relationship instead of ideological beliefs about relationships in general. I predicted that system threat would lead to increases in identification with one's romantic relationship. I also predicted that a threat to the overarching system would result in one's romantic relationship being perceived as more secure and stable (e.g., confidence in partner's dependability, reciprocated affections), as I believe people may increase their relationship self-identification, in part, because of the perceived felt security these relationships may provide (Murray, Holmes, & Griffin, 2000). Given that relationships are presumed to be a more important part of the self-concept for women than men (Cross et al., 2000), it may be that these effects are stronger for women than men. On the other hand, past research has demonstrated that men and women alike rely on their close personal relationships for a sense of security and stability (Milkulincer & Shaver, 2005). As a result, I was uncertain as to whether men would show equivalent effects to women.

Study 6:

How System Justification Affects Relationship Identity

Method

  Participants. Ninety five undergraduates (62 women, 33 men; 22.19 years of age) participated in exchange for a chocolate bar or as partial fulfillment of course credit. All participants were involved in romantic relationships averaging 30.74 months in length ($SD =$ 50.17). Larger ethnic groups included 50.5% White, 31.6% Asian, and 6.3% Middle Eastern.

  Procedure. Participants volunteered for a marketing study that was ostensibly seeking people in romantic relationships for their views on the future of the newspaper industry. First, participants were asked to read and suggest a price for a newspaper article, purportedly to gauge the amount participants would be willing to pay for the article if it was made available online. To learn more about the preferences of people in relationships, participants were then asked for more extensive background information, including questions on their romantic relationship.

  Manipulation of system threat. Participants were randomly assigned to read one of two newspaper articles about Canadian society. These articles were identical to the low and high system threat materials used in Study 2.

  Dependent measures. Participants then completed questions about their relationship and their relationship partner. Participants completed a 6-item measure of romantic relationship identity ($\alpha = .79$). These items were based on the relational self-construal measure created by Cross et al. (2000), and adapted more specifically for romantic partners. Participants indicated how much they disagreed or agreed (1 = *strongly disagree*, 7 = *strongly agree*) with items such as "My romantic relationship is an important part of my identity," and "When I think of myself, I often think of my romantic partner also." In addition, participants completed a measure of

relationship felt security (Marigold, Holmes, & Ross, 2007; Murray et al., 2000). Participants were asked to consider "how you feel about your relationship right now" while they responded (1 = *not at all true*, 7 = *completely true*) to 12 statements such as "I am confident that my partner will always want to look beyond my faults and see the best in me," and "My partner loves and accepts me unconditionally," ($\alpha = .92$).

Results

I conducted a 2 (system threat: high/low) x 2 (gender: female/male) ANOVA on romantic relationship identity scores. Consistent with previous research (e.g., Cross et al., 2000), there was a marginal main effect of participant gender, $F(1, 91) = 2.77$, $p = .10$, indicating that women's romantic relationships were a larger part of their self-identities ($M = 4.71$, $SD = 1.05$) than men's ($M = 4.32$, $SD = 1.14$). As predicted, participants also reported greater self-identification with their romantic relationship following high system threat ($M = 4.84$, $SD = 1.13$) compared to low system threat ($M = 4.29$, $SD = 0.98$), $F(1, 91) = 5.95$, $p = .02$. Unlike Studies 1-3, there was no interaction between gender and system threat conditions, $F < 1$, *ns*.

I also conducted a 2 (system threat) x 2 (gender) ANOVA on relationship felt security. There was a main effect of gender, indicating that women reported more perceived relationship security ($M = 5.76$, $SD = 1.06$) than men ($M = 5.26$, $SD = 0.92$), $F(1, 91) = 5.24$, $p = .02$. There was also a main effect of system threat, such that following high system threat romantic relationships were perceived as more secure and stable ($M = 5.77$, $SD = 0.96$) compared to low system threat ($M = 5.39$, $SD = 1.09$), $F(1, 91) = 3.99$, $p = .05$. Again, there was no interaction with gender, $F < 1$, *ns*.

Discussion

In Studies 1-5 I found that, for men, committed relationship ideology is influenced by broad motivations to defend the larger socio-political system. For women, however, system justification motives did not affect the endorsement of relationship ideology. The goal of Study 6 was to examine whether women would be affected by system threat when participants were asked about their personal relationships rather than general relationship ideology. For both men and women, this was indeed the case.

Believing in the legitimacy of the socio-political system can help protect people from uncertainty and insecurity (Jost & Hunyady, 2002). When this source of certainty and order is challenged, men, it appears, can turn to both their ideological beliefs about the system of relationships in general and their personal relationships to compensate. Although women do not appear to compensate via the defense of relationship ideology, they do turn to their personal relationships in response to system threat.

Study 7:

How Relationship Identity Affects Support of Committed Relationship Ideology

Study 6 demonstrated that women's (along with men's) perceptions of their personal relationships are influenced by system threat, but it tells us little about what leads women to defend the institution of committed relationships as an ideology. Given that women appear to turn to their personal relationship identities under conditions of system threat, relational identity maintenance may also be a driver of their endorsement of broader relationship ideology. This was tested in Study 7, in which I expected a threat to committed relationship identity would lead to greater support for committed relationship ideology. I realize that this prediction may seem counterintuitive. One might expect that after receiving negative feedback about a particular domain (e.g., singing ability) people may protect themselves by psychologically distancing themselves from potential failure (e.g., dislike karaoke social events). However, to the extent that a committed relationship is important to people's self-definitions and is a strongly sought personal goal, following relationship identity threat people may not psychologically disengage (Major, Spencer, Schmader, Wolfe, & Crocker, 1998). Instead people may resist incongruent information about the self (see Fiske & Taylor, 1991), and defensively strengthen their psychological investment in the domain of relationship ideals, thereby reaffirming commitment to their relationship attaining goal.

In Study 7, I heightened participants' defense of their relationship identity by threatening their potential to be in a successful romantic relationship. I measured the impact of this relationship identity threat on endorsement of committed relationship ideology, as well as unrelated education and work values. I expected that following a high relationship identity threat,

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participants would defensively bolster their support for relationship ideology, but not their work or education values, as compared to following a low relationship identity threat.

Method

  Participants. Sixty five undergraduates (32 women, 33 men; 20.22 years of age) participated in exchange for course credit or $10. Twenty four were involved in romantic relationships averaging 21.29 months in length ($SD = 18.21$) and 41 identified themselves as single. Larger ethnic groups included 44.6% White, 38.5% Asian and 3.1% East Indian.

  Procedure. Participants were informed that the researchers were interested in how personality was related to attitudes towards products and marketing. Participants first completed a personality test that was supposedly linked with other personality tests taken in a previous testing session. Consistent with the cover story, participants then completed a filler task in which they rated several products (e.g., candy bars, textbooks). Next, participants viewed their personality profiles, which were designed to manipulate levels of relationship identity threat. Afterwards, participants provided their opinions on marketing and general life values. In this final measure I embedded questions pertaining to committed relationship ideology, as well as values of education/employment.

  Manipulation of relationship identity threat. Participants viewed their personality profiles by accessing a password-protected account on a computer. Participants viewed their percentile rank on six dimensions of personality (e.g., need for cognition), with relationship ability (i.e., relationship identity threat) as the final dimension (see Appendix F). The results contained a range of ranks, and each dimension included a description of what low and high scores meant. All participants were exposed to the same bogus percentile ranks in all the domains except for relationship ability. The relationship identity description was as follows:

"This is your personal ability to have a good, healthy and positive committed relationship in your life. Higher scores indicate that your romantic relationship will very likely be a successful and a positive experience, while lower scores indicate that your romantic relationship will most likely be unsuccessful and a negative experience." Participants were randomly assigned to either the low or high relationship identity threat condition. I expected that receiving a relatively high rank (78th percentile) would not threaten participants' relational identities. However, a low rank (38th percentile) of personal relationship ability was expected to be threatening, thereby activating participants' motivation to maintain their belief that they are good at relationships. To the extent that relationships are an important aspect of participants' self-concepts, in this condition they should especially defend their relational identities. By manipulating the relevance of relational identities in this way, I could test whether an association exists between relational self-concepts and endorsement of committed relationship ideology.

Dependent measures. Following the manipulation, participants completed an opinion questionnaire on marketing and values. Within the values section, I interspersed questions related to committed relationship ideology, education, employment amongst filler questions. For example, there were relationship ideology questions at the beginning, middle, and at the end of the questionnaire. All questions were answered on 9-point scales with higher numbers indicating more endorsement or agreement.

Committed relationship ideology. Five questions were employed as my measure of committed relationship ideology ($\alpha = .74$). One question asked participants how much they valued committed relationships. Participants also indicated how much they agreed with additional statements adapted from the committed relationship ideology measure used in Study 4.

Examples include: "Committed relationships improve the lives of both partners involved," and "It makes me happy when I see a close friend in a committed relationship."

Education/work values. In order to evaluate responses to values unrelated to committed relationships, participants completed three questions related to education and employment (α = .71). Participants indicated how much they valued a full-time job and a university education. Another item assessed how much participants agreed that it is essential for people to pursue a decent education.

Results

I conducted a 2 (values: committed relationship ideology/education-work) X 2 (relationship identity threat: low/high) X 2 (gender: female/male) mixed ANOVA with repeated measures on the first variable. There was an overall between subjects main effect for gender $F(1, 61) = 5.87$, $p = .02$, which indicated that women had higher committed relationship ideology and education-work scores, as compared to men. There was no interaction between values and gender, and no three-way interaction (Fs < 1, ns), but importantly I did find an interaction between values and relationship identity threat $F(1, 61) = 4.23$, $p = .04$. As expected, education-work values, that are presumably unrelated to relationship identity, did not vary between high ($M = 7.45$, $SE = 0.23$) and low ($M = 7.61$, $SE = 0.22$) relationship identity threat conditions, $F < 1$, ns. However, high relationship identity threat led to significantly greater committed relationship ideology endorsement ($M = 6.85$, $SE = 0.21$), as compared to low relationship identity threat ($M = 6.22$, $SE = 0.20$), $F(1, 61) = 4.42$, $p = .04$.

Discussion

The results of Study 7 dovetail with the findings of Study 6. In Study 6, both men and women embraced their romantic relationships to a greater extent following activation of the

system justification motive. In Study 7, I found evidence that the motivation to protect one's

personal relational identity predicted support for committed relationship ideology, but not

irrelevant values. Thus, whereas Studies 1-5 demonstrated that men's defense of relationship

ideology is partly due to broader system justification motives, Studies 6 and 7 demonstrated that

when focused on personal relationships both men and women respond equally to system threat

and defensively endorse relationship ideology.

General Discussion

In this paper I tested whether the defense of relationship ideology can be explained through the same motivational systems that lead people to justify the socio-political system. I hypothesized that the defense of committed relationships may be explainable, at least in part, via a system justification framework in which the institution of relationships represents one aspect of the generalized socio-political system. That is, support of relationship ideology may be one way through which people preserve beliefs in the order and stability that their overarching system can provide.

In support of this, in Studies 1 and 2 I found that a manipulation that threatened the legitimacy of the general socio-political system bolstered defense of relationship ideology. In Study 3, I found that exposure to information that threatened the system of committed relationships resulted in higher support for the socio-political system. In Study 4, I observed that beliefs in the control and structure exerted by relationships—a construct similar to one that, in other contexts (such as the government and religion) has been observed to be a key driver of system justification phenomena—increased endorsements of relationship ideology. In Study 5 I replicated the main findings correlationally in representative samples from 29 countries. In each study, the expected relation between the system justification motive and relationship ideology defense was observed, but only (or most strongly) for male participants. Thus, at least for men, I found consistent and converging support for my hypothesis.

Study 5 provided an explanation for the gender difference—one that is consistent with contemporary theories of intergroup relations (Sidanius & Pratto, 1999). As men stand to gain more from social and economic conditions, including a system of committed relationships (Jackman, 1994; Sidanius & Pratto, 1999), they have more to lose, and thus more reason to be

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defensive if the institutions that potentially assist in the maintenance of these advantages are no longer supported. In particular, as overall gender equality increases (i.e., as men's advantage over women dissipates), there may be an increased tendency for men to cling to institutions that have traditionally favored their dominance. For instance, DePaulo (2006) has noted that changes in Western society over the last several decades (e.g., control over reproduction, economic opportunities, etc), have mostly made it easier for single women to live full and meaningful lives, rather than providing gains for men. Consistent with this perspective, in Study 5 it was observed that, for men, the relationship between support for the socio-political system and relationship ideology was strongest in contexts in which the traditional male advantage is most precarious—namely, cultures with the highest levels of gender equality.

Studies 6 and 7—through focusing on the role of personal identification with romantic relationships, a domain past research has found to be more central for women (Cross et al., 2000)—examined conditions in which this pattern of gender moderation disappeared. Study 6 demonstrated that when the system justification motive is heightened, both men and women increased their identification with their personal romantic relationship. Study 7 went one step further and demonstrated that, for men and women, when one's own romantic relationship identity is threatened, support for committed relationship ideology increases. Thus, although Studies 1-5 failed to yield any evidence that women directly link system justification with committed relationship values, links to both these constructs were found through the lens of men's and women's own close relationship identity.

Singles and people in relationships

Relationship status was the other group level factor I examined in all but one study. Although some might expect that singles, being potentially disadvantaged by relationship

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ideology (e.g., DePaulo, 2006; DePaulo & Morris, 2005), would not endorse relationship beliefs to the same extent as people in relationships, across studies the main findings were not qualified by relationship status. Embedded within committed relationship ideology is the notion that singles are not as valued as much as people in relationships. The fact that the manipulations employed predicted support for relationship ideology, but relationship status did not, suggests this stereotype is not simply the result of outgroup derogation, but serves a broader system justifying function (e.g., Jost & Kay, 2005; Jost, Pelham, & Carvallo, 2002). As such, discriminatory practices against singles may have some roots in system justifying needs. When system justification contexts are salient, my research suggests that men, even single ones, may further support beliefs that help rationalize the unequal treatment of people who are single. Furthermore, based on the findings of Study 7, and similar to past research (Fein & Spencer, 1997), a threat to men and women's relationship identities may be another context which leads to greater stereotyping, and potential discrimination against singles.

Although in the present research I did not test for associations between the system justification motive and explicit discrimination against singles, this may be a promising direction for future research. For example, even without the activation of the system justification motive, past research has documented discrimination against singles (Morris et al., 2007). Furthermore, a robust finding in economic and sociological research is the higher salaries paid to married as compared to single men (see Loh, 1996). Recent research suggests that this *marriage wage premium* cannot be well explained by overall performance, more productive men self-selecting marriage, or by additional work specialization due to less household work (Antonovics & Town, 2004; Hersch & Stratton, 2000). It is possible that this wage discrepancy may be at least partly

due to agreement with committed relationship ideology and the application of single and married person stereotypes, implicitly or explicitly.

System justification and relationship identity

One striking finding of Study 6 was that the motivation to justify the larger socio-political system influenced men and women's self-views involving their romantic partner, and the extent that they perceived felt security in their relationship. This suggests that psychological needs that are made salient following system threat are satiable via self-relevant relationship cognitions. It is noteworthy indeed that such macro-level threats can exert effects on such micro-level relationships. Whereas extensive relationship research has looked at the effects of self- and individual-level threats on people's perceptions of their relationships (Mikulincer & Shaver, 2005), the role of broad, system-level threats on relationship perception has not received much empirical attention whatsoever (see Lau et al., 2008). Although one might imagine this would only be the case for serious romantic partners, it is very possible that in response to a heightened system justification motive, people may adjust their relational self-concept surrounding any close relationship that is perceived as highly secure and stable. Discovering precisely the types of relationships that can help satiate system justification needs, as well identifying precisely how they do so, is a potentially fruitful area for future research.

Limitations

Although I have attempted to answer my research hypothesis using mixed methods in seven studies, not all methodological issues were addressed. For instance, in Study 4 I examined how the element of perceived control in relationships contributes to the support of committed relationship ideology. In past research control has been shown to be an important factor in the support of societal systems such as religion and the government (e.g., Kay et al., 2008). For

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relationship contexts, I defined control as the perceived structure and order that relationships can provide. The manipulation of relationship control in Study 4 largely centered on how relationships can (or cannot) provide control over well-being, consistent with committed relationship ideology (DePaulo & Morris, 2005). One possibility, however, is that when relationships were presented as offering control, participants may have endorsed relationship ideology to a greater extent because they simply thought relationships were better, and not because of the potential control relationships offered. This was the first study examining how structured and ordered views of relationships can predict support for relationship ideology. Although the alternative explanation cannot easily explain why only men showed the predicted pattern, further research would need to be conducted to rule out the alternative account. If the findings of Study 4 were replicated using a manipulation that, for example, emphasized relationships as providing structured (i.e., controllable) life paths, without mention of well-being, this would supply additional confidence in the findings of Study 4.

There is also a potential limitation of Study 7 that was not experimentally addressed in this dissertation. In this study, participants' relational identities were threatened or not, and subsequently their endorsement of committed relationship ideology was measured. While this study provided evidence that support for relationship ideology is linked to participants' relational identities, it did not specifically rule out the possibility, however, that other personal threats (e.g., feedback on low academic ability) may also lead to greater relationship ideology support. Although the finding that other values important to students (e.g., education) were unaffected by a threat manipulation suggests that the present identity-ideology finding may be specific to the relational domain, ultimately how specific the threat needs to be is an empirical issue. Future

research would need to be conducted to concretely determine, for example, whether the same effects are found following other threats to the self as compared to relational identity threats.

Concluding Remarks

Assumptions and beliefs about committed relationships are embedded within Western culture. My research represents the first experimental investigation of the role of broad motivational needs in maintaining such beliefs. In this dissertation, I have demonstrated that, at least for men, beliefs surrounding committed relationships do not exist in a vacuum. They are instead enmeshed within broader consideration of the socio-political system and the hierarchies it serves to maintain.

Appendix A: System Threat Manipulation in Study 1

[Low System Threat]

"Salaam, CANADA!" Arab culture has become more visible, but the community is still fragmented.

By John Shadid

Arab-Canadians are finding their place in Canadian Society. In line with the increasing interest in non-Western cultures, Middle Eastern Arab food and music have become more and more acknowledged among Canadians. Cultural centers and restaurants with Middle Eastern Arab food are all over the country, and hummus and falafel have become regular staples in grocery stores, as they have become increasingly popular in Canadian Society.

This cultural integration, however, seems to be only one part of the new awareness of Arab culture in Canada. Arab-Canadians have started entering more and more important positions in academics as well as political and social aspects of life in Canada. Women with headscarves have become a common sight, and Muslim holidays are more often incorporated into calendars as well as acknowledged by politicians trying to appeal to their constituencies. In spite of the recent events of September 11th, 2001, surveys still show that Arabs generally feel more and more accepted in Canada and they say that they feel "lucky to be here."

Ahman Al-Hassan, business manager of "Leila," a café in Vancouver functioning as a cultural center and meeting place for Arabs in Southern BC, says much the same. However, the community is only starting to organize itself. Many Arab-Canadians do not yet have access to Arab cultural resources the way that other ethnic minority members in Canada do. "Many Arab-Canadians feel like they don't have the possibilities to enjoy their unique cultural practices the way they would like to," he says. "They don't know where to meet other Arabs to celebrate the holidays, or just to spend time together. But the possibilities are out there!"

Part of the idea of "Leila" is to create such a possibility. "Strengthening the cultural ties of Arab-Canadians," says Mr. Al-Hassan, "is our next big task."

[High System Threat]

Suspicious by origin: Arab-Canadian discrimination has stopped being purely a legal issue.

By John Shadid

Times have been hard for Arab-Canadians in Canadian Society. Starting with the incarceration of innocent Arabs after the terrorist attacks of September 11th 2001, Arabs in Canada are more frequently being investigated, detained, and unjustly accused of crimes.

These reported legal discriminations, however, appear to be only one of the problems the Arab-Canadian community has been facing in Canada lately. The community has been under suspicion, and more and more Arabs report feeling treated unfairly by greater Canadian society.

In day-to-day affairs, as, for instance, buying a plane ticket or applying for a job, Arab-Canadians are hurt at being branded as an "other," and complain of having faced not only violations of their rights, but subtle forms of prejudice. Surveys have shown that even in their daily lives, the overall sentiment is that ordinary Canadians are responsible for much of their alienation.

"Canada has moved from what was an investigation of a crime to creating a suspect class. Being of Arab descent in Canada is enough to make you a suspect," says Ahmad Al-Hassan, a business manager of "Leila," a café in Vancouver functioning as a cultural center and meeting Appendix A cont.

place for Arabs in Southern BC. "Many of us feel," he continues, "that Canada, the so-called land of the free, our home, has become less tolerant and accommodating to diversity in many aspects of life and does not treat us as equal citizens."

He and others express the feeling that Arabs cannot enjoy their unique cultural practices and different family values free from the judgment of others. "Many Canadians don't even know they're being biased when they really are."
"Being able to live our lives according to our values and principles," says Mr. Al-Hassan, "has become our deepest concern."

Appendix B: Manipulation of Committed Relationship Ideology Support in Study 1

Research Report

1. Goal:
To investigate the life benefits of being in a long-term romantic relationship compared to the life benefits of being single.

2. Method:
Participants were 52 couples (i.e., 104 people) who were either married or living as common law and 94 single people, all living in communities in Southern Ontario. The average age of people in romantic relationships was 37.2 years and the average age of single people was 36.8 years. For participants in a relationship, the average length of romantic relationships was 11.6 years. All participants completed two separate surveys 1 year apart. Couples were asked to complete each survey individually and to not share their answers with their partner. The survey was designed so that the answers of people in relationships could be compared to people who were single. The survey included questions that measured satisfaction with life, sense of life security, life dependability, life stability, benefits and life goals. The survey was answered by participants initially – at time 1, and then to the same participants 1 year later – at time 2.

[Relationship Ideology Supported]

3. Conclusions:
The researchers found a link between being in a committed romantic relationship and overall life benefits, compared to singles, for people in their mid-thirties. The researchers found support in this study that suggests long term relationships are beneficial to people's well being. Overall, mid-life adults in relationships are better off than mid-life adults who are single.

Specifically, couples reported feeling more secure and stable in their life than single people reported. People in long-term relationships felt they could rely and depend on their partners more than single people could rely on others. In addition, when couples were asked to list personal benefits of being in a relationship they generated more benefits than when single people were asked to list the benefits of being single. Interestingly, couples also felt they were meeting their life goals more than singles, and felt their lives to have improved more than single people reported. Further, in terms of life satisfaction and happiness, people in committed relationships reported being happier than single people. These findings were consistent at Time 1 and at Time 2 (after one year).

[Relationship Ideology Not Supported]

3. Conclusions:
The researchers did not find a link between being in a committed romantic relationship and overall life benefits compared to singles, for people in their mid-thirties. The researchers found no support in this study that suggests long term relationships are beneficial to people's well being. Overall, mid-life adults in relationships are not better off than mid-life adults who are single, and in some cases are worse off.

Specifically, couples reported feeling no more secure and stable in their life than single people reported. People in long-term relationships felt they could rely and depend on their partners about the same amount as single people could rely on others. In addition, when couples were asked to list personal benefits of being in a relationship they generated a similar number of benefits as when single people were asked to list the benefits of being single. Interestingly, couples felt they were not meeting their life goals as much as singles, and felt their lives didn't improve as much as single people reported. Further, in terms of life satisfaction and happiness, people in committed relationships were slightly less satisfied and happy than single people. These findings were consistent at time 1 and at time 2 (after one year).

[Both Conditions]

4. Study Criticisms and Researcher Rebuttals:
This is a brief summary of some of the criticisms of this study and the researchers' replies to these criticisms.

Criticism 1: There were fewer than 200 people in this study. It may be difficult to come to conclusions based on this sample. It is possible that there is something special about this group of couples or this group of singles that is not representative of the population. Therefore the results of this study are questionable.

Researcher rebuttal 1: Having approximately 100 people of each group is not a small study. Statistically, this number of people allows for the aims of this research to be properly investigated. That is, even if more participants were included in this study, we would not expect the results to change much at all.

Criticism 2: These findings are based on just one study. Therefore it is possible that these findings could be due to chance. The researchers did not conduct multiple studies. They did not ask the same questions to additional samples of couples and singles, yet the conclusions are meant to inform the general public.

Researcher rebuttal 2: It is true that this is just one study. However, the participants in this study completed the questions twice. That is, the same questions were answered by the same participants over a 1 year, and the same results were found. This suggests that the findings are reliable.

Criticism 3: There are other life benefits (e.g., fulfillment with having a family) not addressed in this study. It could be the case that people in relationships have higher or lower scores than single people in other areas not covered by this study. This could dramatically affect the study results and conclusions.

Researcher rebuttal 3: When conducting a survey only a limited number of questions can be asked, and in this study many (but not all) of the major questions were asked. The life benefits, such as life satisfaction, life stability, and life goals, are common when evaluating people's lives in this kind of research and should reflect overall life benefits.

Appendix C: Committed Relationship Ideology Threat in Study 3

[Low Relationship Ideology Threat]

The era of committed relationships. By Leslie Hamil

It's not alarming how many marriages succeed. Recent survey data from Statistics Canada reveal no sign that the numbers are starting to reverse, and instead the marriage rate increased in 2007. It's not just marriages – long-term, common law relationships have consistently shown the same pattern. People don't appear to be rejecting committed relationships as some have suggested. What can explain this continuing trend? Recently there has been an investigation as to why marriage is on the small, but noticeable, rise, and why committed relationships are "the answer" people thought they were.

In most western cultures, enduring relationships have been relatively stable for the last 50 years. Some scholars have noted that even once societies made it more acceptable to divorce and end long-term relationships, people did not drop everything and start living single. Other scholars have pointed out how it is a good idea to stay together with one person for most our lives. For instance, research studies conducted in large towns and cities found that most people in committed relationships have happy and fulfilled lives. As stated by sociologist Jessie Chambers, "People don't just stay in relationships because they can; they remain a couple because they want to be with their partner longer."

These explanations match the trends in society – that overall marriage/monogamy/life-time commitment works for most people. But more research on why this is the case, needs to be done. It is possible, however, that the future will be a place where long term committed relationships are still valued and supported, and are not a thing of the past.

[High Relationship Ideology Threat]

The era of 'not so' committed relationships. By Leslie Hamil

It's alarming how many marriages fail. Recent survey data from Statistics Canada reveal no sign that the numbers are starting to reverse, and instead the divorce rate climbed to its highest level ever in 2007. It's not just marriages – long-term, common law relationships have consistently shown the same pattern. People don't appear to be embracing committed relationships as they once did in the past. It's therefore not surprising that there is also a steady increase in the number of people living single, and staying single for most of their lives. What can explain this trend? Why are committed relationships not "the answer" people thought they were?

In most Western cultures, enduring relationships have been declining for the last 50 years. Some scholars believe that once societies made it more acceptable to divorce and end long-term relationships, people started taking advantage of their single lives again. Other scholars have questioned whether it is a good idea to stay together with one person for most of our lives. For instance, research conducted in large towns and cities has found that most single people have happy and fulfilled lives. As stated by sociologist Jessie Chambers, "People don't just end relationships because they can; they do so because they don't want to be with their partner any longer, and people are realizing that any worries about living single are a myth."

These explanations match the trends in society – that marriage/monogamy/life-time commitment doesn't work for most people. More research on why this is the case, needs to be done. But, it is possible that the future will be a place where long term committed relationships are not valued or supported, and are more of a thing of the past.

Appendix D: Relationship Control Manipulation in Study 4

[Relationships Exert Control]

According to a vast array of research, people's level of happiness is strongly connected with the quality of their committed relationships. According to research on dating and married couples by Holmes (2004), whether peoples' relationship functions smoothly or not in large part will determine their happiness; successful relationships breed more happiness and unsuccessful relationships breed less happiness. Surprisingly, the influence of relationship quality for personal happiness is considerably stronger than the influence of work or leisure activities on happiness. Also, peoples' sense of stability and order depends on the quality of their relationship.

[Relationships Do Not Exert Control]

According to a vast array of research, people's level of happiness is surprisingly, not at all connected with the quality of their committed relationships. According to research on dating and married couples by Holmes (2004), whether peoples' relationship functions smoothly or not in large part will not determine their happiness; successful relationships do not breed more happiness than unsuccessful relationships. Instead, satisfaction in domains related to people's identities, such as work and leisure, determines their overall happiness. Also, peoples' sense of stability and order does not depend on the quality of their relationship.

Appendix E: Committed Relationship Ideology Measure in Study 4

Another study on relationships by Holmes (2005) interviewed a group of older adults on their general opinions about committed relationships. Many excerpts were taken from these interviews. While this study compiled many different and interesting comments, it is unclear how representative these opinions are of the student population. We would like to understand the consensus of students concerning these opinions. Using the following scale, please indicate your agreement with these statements by choosing a number that best represents your answer.

1   2   3   4   5   6   7   8   9

Strongly disagree   Strongly agree

__ 1. "Committed relationships are overrated." (reverse coded)

__ 2. "Single life is often unreliable and not secure."

__ 3. "There are very few major downsides to being in a committed relationship."

__ 4. "Committed relationships improve the lives of both partners involved."

__ 5. "Single people are missing out."

__ 6. "In general, people in committed relationships are happier than single people."

__ 7. "The concept of the committed relationship is the ultimate answer."

__ 8. "Most of my single friends would be better off in a committed relationship."

__ 9. "Becoming involved in a committed relationship is the right thing to do."

__ 10. "Most of my single friends should try to be in a committed relationship."

__ 11. "It makes me happy when I see a close friend in a committed relationship."

__ 12. "Good friendships are more secure than committed relationships." (reverse coded)

Appendix F: Relationship Identity Manipulation in Study 7
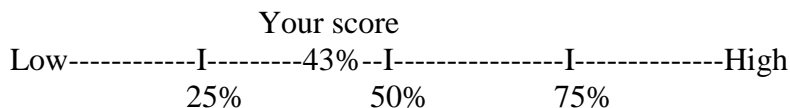
Personality Questionnaire Scores:

       Below you will find how you scored on a number of different personality scales relative to your fellow students in this semester's Psychology classes —that is, you will find out if you are high, low, or average on each of several individual difference scales. These scores have been computed based on the personality test you have completed today, as well measures you have completed before (e.g., mass testing questionnaires), and all have been compared to other Psych students who have done these same tests.

       In the following pages, you will see the names of each scale that you filled out, the properties of the scale that tell you what your score indicates, and your percentile score (what percentage of the other Psych students this term who scored <u>below</u> you on that dimension -- e.g., 33% means that 1/3 of the Psych students scored below you (and 2/3 scored above you); 75% means 3/4 of the Psych students scored below you and 1/4 scored above you); 99% means that you received the highest score of the Psych students on this scale.
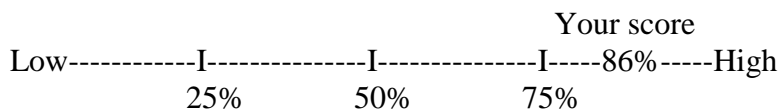
Note: These results have been found to be very reliable and have been found to predict people's outcome even 15 years after completing these tests. These tests are widely used and are often praised for their high predictive accuracy (e.g., Holmes & Murray, 1998; Lovas, Dabrowski, Hennigar & Gasparetto, 1981; MacDonald & Baxter, 2000).

[Filler Feedback]

<u>Need for Cognition:</u> This is your personal need for cognition. Higher scores indicate that you have a higher need for cognitive experiences (opposed to non-cognitive experiences), while lower scores indicate that you have a lower need for cognitive experiences.

```
                       Your score
    Low------------I---------43%--I----------------I--------------High
                 25%            50%            75%
```

<u>Perceptual/Cognitive Orientation:</u> This is your personal perceptual/cognitive orientation. Higher scores indicate that you have a higher perceptual/cognitive orientation to tasks and situations, while lower scores indicate that you have a lower perceptual/cognitive orientation in these settings.

```
                                    Your score
    Low------------I---------------I---------------I-----86%-----High
                 25%            50%            75%
```

Sensing/Feeling Inventory: This is your personal sensing/feeling score. Higher scores indicate that you have a higher sensing/feeling intuition, while lower scores indicate that you have a lower sensing/feeling intuition.

```
                    Your score
   Low------------I--------48%-I--------------I--------------High
            25%            50%           75%
```
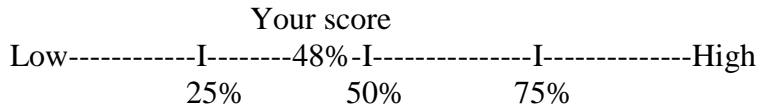
Conformity Orientation: This is your personal conformity orientation score. Higher scores indicate that you may conform to a variety of situations, while lower scores indicate that you may conform to a limited number of situations.

```
                    Your score
   Low------------I---------------I-51%--------I--------------High
            25%            50%           75%
```
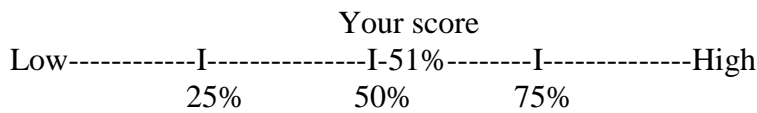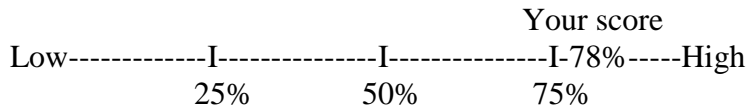
Sociability Orientation: This is your personal score on your sociability orientation in your life. Higher scores indicate that you approach situations with a high sociability orientation, while lower scores indicate that you approach situations with a low sociability orientation.

```
                     Your score
   Low------------I---------------I-------71%--I--------------High
            25%            50%           75%
```
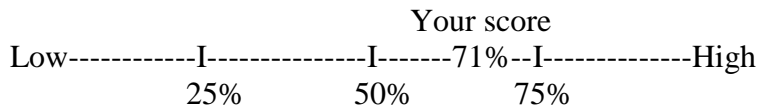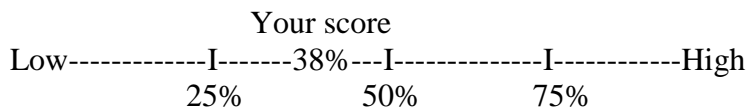
Relationship Ability: This is your personal ability to have a good, healthy and positive committed relationship in your life. Higher scores indicate that your romantic relationship will very likely be a successful and a positive experience, while lower scores indicate that your romantic relationship will most likely be unsuccessful and a negative experience.

[Low Relationship Identity Threat]

```
                              Your score
   Low-------------I---------------I---------------I-78%-----High
             25%            50%           75%
```

[High Relationship Identity Threat]

```
                    Your score
   Low-------------I-------38%---I--------------I------------High
             25%            50%           75%
```

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