Central Washington University

ScholarWorks@CWU

All Faculty Scholarship for the College of the Sciences

College of the Sciences

9-28-2017

Assessing Religious Orientations: Replication and Validation of the Commitment-Reflectivity Circumplex (CRC) Model

Steven L. Isaak

Jesse R. James

Mary K. Radeke

Stephen W. Krauss

Keke L. Schuler

See next page for additional authors

Follow this and additional works at: https://digitalcommons.cwu.edu/cotsfac

Authors

Steven L. Isaak, Jesse R. James, Mary K. Radeke, Stephen W. Krauss, Keke L. Schuler, and Eric R. Schuler



Article

Assessing Religious Orientations: Replication and Validation of the Commitment-Reflectivity **Circumplex (CRC) Model**

Steven L. Isaak^{1,*}, Jesse R. James², Mary K. Radeke², Stephen W. Krauss³, Keke L. Schuler³ and Eric R. Schuler³

- 1 Clinical Counseling Psychology, University of South Alabama, Mobile, AL 36688, USA
- 2 Psychology, Central Washington University, Ellensburg, WA 98926, USA; jesse.james@cwu.edu (J.R.J.); mary.radeke@cwu.edu (M.K.R.)
- 3 Consortium for Heath and Military Performance, Uniformed Service University of the Health Sciences, Bethesda, MD 20814, USA; stephen.krauss@usuhs.edu (S.W.K.); KekeLiu@my.unt.edu(K.L.S.); EricSchuler@my.unt.edu (E.R.S.)
- * Correspondence: sli1721@jagmail.southalabama.edu; Tel.: +1-509-859-3951

Academic Editor: Christian Zwingmann Received: 5 September 2017; Accepted: 25 September 2017; Published: 28 September 2017

Abstract: The Commitment-Reflectivity Circumplex (CRC) model is a structural model of religious orientation that was designed to help organize and clarify measurement of foundational aspect of religiousness. The current study successfully replicated the CRC model using multidimensional scaling, and further evaluated the reliability, structure, and validity of their measures in both a university student sample (Study 1) and a nationally representative sample (Study 2). All 10 subscales of the Circumplex Religious Orientation Inventory (CROI) demonstrated good reliability across both samples. A two-week test-retest of the CROI showed that the subscales are stable over time. A confirmatory factor analysis of the CROI in the representative adult sample demonstrated good model fit. Finally, the CROI's validity was examined in relation to the Intrinsic, Extrinsic and Quest measures. Overall, the CROI appears to clarify much of the ambiguity inherent in the established scales by breaking down what were very broad orientations into very specific suborientations. The results suggest that the CRC model is applicable for diverse populations of adults. In addition, the CROI appears to be construct valid with good structural and psychometric properties across all 10 subscales.

Keywords: religious orientation; religious motivation; scale validation; intrinsic/extrinsic; quest; circumplex; multidimensional model; religiosity

1. Introduction

Religious orientation is a foundational aspect of faith that includes a myriad of ways for approaching or avoiding religion. Commitment is the most easily identifiable trait of religious orientation but the underpinnings of why the individual is committed often manifest in many different ways due to a variety of motivations. Thus, religious orientation is multidimensional in nature and can promote human flourishing as well as create distress in some forms (Hathaway 2016; Hill et al. 2000, 2012; Krauss and Hood 2013). For example, varying forms of religious orientations were a motivating force behind the acts of martyrdom and terrorism witnessed in the attacks of 11 September 2001, as well as catalyzing the various acts of heroism, charity, and compassion exhibited in response to the same tragedy (Beck and Jessup 2004).

Much research over the past 50 years has been dedicated to measuring concepts related to religious orientation. For example, Hill and Hood (1999) presented over 200 published measures



2 of 19

on this variegated construct. However, notwithstanding the development of many new measures since the publication of Hill and Hood's compilation, additional efforts to organize this complex field are needed. Given the rapid expansion and the breadth with which the field continues to expand, researchers are left to rely on heavily outdated and/or disparate measures of this important construct.

Two of the most influential theories that have attempted to define religious motivation on an individual basis have been Allport and Ross (1967) Intrinsic/Extrinsic (I/E) motivation and Batson (1976) Quest (Q) model. I/E and Q were some the first to ask the important question of why a person seeks out or shies away from religion; rather, asking about behaviors and ideologies of faith commitment (e.g., frequency of prayer, church attendance, and doctrine of belief). Although I/E, and Q have been often considered the gold standard regarding religious motivation, there has been much debate over what these established scales are truly measuring (Beck and Jessup 2004; Gorsuch and McPherson 1989; Gorsuch 1994; Hill et al. 2012; Kirkpatrick 1989; Kirkpatrick and Hood 1990; Krauss and Hood 2013). For example, evidence suggests that Q and E are positively correlated and have the potential to be somewhat aggregated constructs (Batson 1976; Beck et al. 2001; Beck and Jessup 2004; Watson et al. 1989). Similar relationships have also been found between I and E (Hunt and King 1971; Kirkpatrick and Hood 1990). In an effort to address the multidimensional complexity of religious orientation, Krauss and Hood (2013) developed the Commitment-Reflectivity Circumplex (CRC) model of religious orientation (see Figure 1).

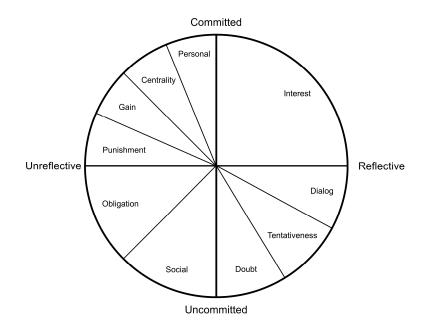


Figure 1. Krauss and Hood's (2013) theoretical multidimensional Commitment-Reflectivity Circumplex model.

1.1. Commitment-Reflectivity Circumplex (CRC) Model

The CRC model (Krauss and Hood 2013), was developed using over a dozen Romanian and American samples with over 400 of their own items and over 20 established measures. The CRC model posits that religious orientation measures differ primarily with regards to the amount of commitment and reflectivity that they capture. In other words, these measures differ in the degree to which they tap into dedication to a religious faith (committed vs. uncommitted) as well as the degree that belief systems are analyzable and open to questioning and growth (reflective vs. unreflective). Therefore, an orientation could be categorized into one of four quadrants: Committed/Reflective (e.g., life-long learners), Committed/Unreflective (e.g., dogmatic and economic models), Uncommitted/Reflective (e.g., socially obligated and communal benefits).

The four quadrants are comprised of similar familial measures. Within a family, the measures are seen as fairly generic and interchangeable. For example, Krauss and Hood (2013) found minimal empirical differences between 12 different measures of faith commitment. The vast majority of established measures seem to capture varying aspects of faith commitment, which is a part of the Committed/Unreflective quadrant in the CRC model (Krauss and Hood 2013). For example, these measures included: the frequency of prayer, frequency of worship attendances, the Intrinsic scale (Gorsuch and McPherson 1989), Extrinsic Personal (Gorsuch and McPherson 1989), Christian Orthodoxy (Hunsberger 1989), Christian Religious Internalization (Ryan et al. 1993), Literal Affirmation (Duriez et al. 2000), and self-reported religiousness.

Only a few established measures appeared to fall outside of the Committed/Unreflective quadrant, almost as if faith commitment functioned as the force of gravity in the field. Established measures that fall into the Uncommitted/Unreflective quadrant include Extrinsic-Social (Gorsuch and McPherson 1989). The Uncommitted/Reflective quadrant consisted of measures such as Quest (Batson and Schoenrade 1991a, 1991b) self-rated agnosticism, and Reductive Interpretation (Duriez et al. 2000). The Committed/Reflective quadrant corresponds closely to what Allport (1950) termed "Mature Religion," but was only captured by a few established indices such as interest in world religions and Restorative Interpretation (Duriez et al. 2000).

In short, the CRC model (Krauss and Hood 2013) shows much promise in the ability to structure and simplify measurement selection as well as providing avenues to more comprehensive measure religious orientation across world religions and at all levels of religiosity. As such, both the CRC model and the Circumplex Religious Orientation Inventory (CROI) have been influential in applied settings, such with the U.S. military (Shirley et al. 2016) and with federal chaplains (Krauss 2017).

1.2. Overview of the Current Study

The current study addressed three aims. The primary aim was to test whether the CRC model replicates in both a diverse student sample and a large nationally representative sample. The second aim was to more fully examine the structure and psychometric properties of the CROI. The third aim was to examine the convergent validity with established measures of religious orientation, namely Intrinsic, Extrinsic, and Quest orientations (Batson and Schoenrade 1991a, 1991b; Gorsuch and McPherson 1989).

2. Study 1: University Student Sample

Study 1 examined whether the CRC model replicates in a diverse university student sample, assess the psychometric properties of the CROI, and to examine the convergent validity of the CROI with established measures of Intrinsic, Extrinsic and Quest orientations (Batson and Schoenrade 1991a, 1991b; Gorsuch and McPherson 1989).

2.1. Method

2.1.1. Participants

The sample contained 174 participants (133 females and 40 males) from Central Washington University located in the Western United States. Participants were recruited through an online bulletin board for voluntary participation in psychological research. The average age of the participants was 21.09 years (SD = 5.04). Over 20 different religious affiliations were identified and recoded into 10 groups based on the Pew Research Center's findings on America's religious landscape (Wormald 2015). However, SES data was obtained from the university Office of Institutional Effectiveness for the total population of all students who were enrolled in psychology classes during the same quarter. The racial demographics, socioeconomic status, and religious affiliations of this first group of participants are listed in Table 1.

Table 1. Descriptive Statistics of Racial Demographics, Socioeconomic status, and Religious Affiliation
of both studies.

Demographics		dy 1 sy Sample		Nationally tive Sample	USA Population
Race	п	%	п	%	%
African American	7	4.0	53	9.4	12%
East Asian	14	8.0	19	3.4	5%
European American	109	62.6	366	64.9	64%
Hispanic	27	15.6	51	9.0	16%
Middle eastern	1	0.6	2	0.4	1%
Native American	1	0.6	15	2.7	1%
South Asian	3	1.7	4	0.7	1%
Other or mixed	12	6.9	54	9.6	-
Total	174	1.0	564	100	100%
SES Annual Income	п	%	п	%	%
Under \$15,000	234	15.5	75	13.1	14%
\$15,000-\$25,000	129	8.6	66	11.7	12%
\$25,000-\$35,000	97	6.4	61	10.8	11%
\$35,000-\$50,000	151	10.0	77	13.7	14%
\$50,000-\$75,000	152	10.1	101	17.9	18%
\$75,000-\$100,000	119	7.9	66	11.7	11%
\$100,000-\$150,000	155	10.3	69	12.2	12%
\$150,000-\$200,000	81	5.4	27	4.8	5%
Over \$200,000	57	3.8	23	4.1	4%
No Report	330	22.0	0	0.0	0%
Total	1505	1.0	565	100	101%
Religious Affiliation	п	%	п	%	%
Evangelical	61	35.1	211	37.4	25.4
Catholic	36	20.7	112	19.9	20.8
Secular/Unaffiliated	46	26.4	97	17.2	22.8
Protestant	17	9.8	59	10.5	14.7
Nontrinitarian	1	0.6	13	2.7	2.4
Islam	1	0.6	10	1.8	0.9
Buddhist	3	1.7	8	1.4	0.7
Hindu/Pantheist	4	2.3	11	1.9	0.7
Jewish	0	0.0	6	1.1	1.9
Various Others	5	2.7	37	6.5	9.7
Totals	174	100	564	100	100

Note. The quota sample collected by Qualtrics approximates the U.S. population in terms of race, gender, age, and Socioeconomic Status (SES). The SES data reported for student sample reflects the total population (*N*) of all students who were enrolled in psychology classes during the September to December 2015 data collection period.

2.1.2. Measures

The Intrinsic/Extrinsic-Revised scale (I/E-Revised; Gorsuch and McPherson 1989) contains 14 items that are scored on a five-point Likert scale ranging from strongly disagree to strongly agree. The I/E-Revised is comprised of three scales Intrinsic (I), Extrinsic-Personal (Ep), and Extrinsic-Social (Es). The internal consistency of I ($\alpha = 0.82$), and Ep ($\alpha = 0.84$) were good. The internal consistency for Es ($\alpha = 0.79$) was acceptable. These findings align with past literature (Hill 1999).

The Quest scale (Q; Batson and Schoenrade 1991a, 1991b) contains 12 items scored on a nine-point Likert scale ranging from (1) strongly disagree to (9) strongly agree. The Q was designed to measure aspects of openness to change (e.g., "I am constantly questioning my religious beliefs"), doubting as positive (e.g., "It might be said that I value my religious doubts and uncertainties"), and existential questions (e.g., "My life experiences have led me to rethink my religious convictions"). The internal consistency of Q (α = 0.80) was good and in line with past literature (Burris 1999; Steger et al. 2010).

The CROI (Krauss and Hood 2013) contains 63 items scored on a five-point Likert scale ranging from strongly disagree to strongly agree. The CROI is comprised of ten subscales, which are listed in Table 2. See Appendix A for a list of the scale items. The internal consistency of each subscale ranges are shown in Table 3.

Religious Orientation	Definition
Centrality	Centrality orientation is the degree to which religion is important and central to an individual's life. (p. 60)
Personal	Personal orientation is an approach towards religion in order to gain comfort, protection, forgiveness, and help in general. (p. 61)
Gain	Gain orientation consists of the degree to which religion is approached as a method for gaining wealth, health, success, and other personal desires. (p. 65)
Punishment	Punishment orientation is an approach to religion that is heavily colored by a fear of God, by conscious attempts to avoid divine punishment, and a belief that negative events are controllable as well as meaningful. (p. 67)
Obligation	Obligation orientation is the amount to which a person feels social pressure to act or be religious. (p. 71)
Social	Social orientation is the degree to which a person involves themselves in religion in an effort to make or see friends and others as social acquaintances. (p. 69)
Doubt	Doubt orientation is the degree to which an individual enjoys and values their religious doubts, uncertainties and questions. (p. 73)
Tentativeness	Tentativeness orientation is the degree to which an individual is self-critical and uncertain of the objective validity of their beliefs about religion (Whether religious or nonreligious). (p. 75)
Dialog	Dialog orientation " is the degree to which an individual is aware that their religion is affected by 'the contradictions and tragedies of life." (p. 76)
Interest	Interest orientation is the amount to which an individual enjoys learning, reading and talking about religion and religious concepts. (pp. 77–78)

Note. Each of the above definitions have been quoted by Krauss and Hood (2013). Page numbers of each source are included in parentheses.

Sub-Scale	Krauss and Hood (2013)	Study 1	Study 2
Personal	0.80	0.88	0.90
Centrality	0.91	0.95	0.95
Gain	0.72	0.76	0.87
Punishment	0.73	0.85	0.82
Obligation	0.78	0.85	0.74
Social	0.84	0.80	0.86
Doubt	0.77	0.80	0.83
Tentativeness	0.77	0.80	0.83
Dialog	0.83	0.87	0.86
Interest	0.84	0.93	0.90
Average CROI	0.80	0.85	0.86

Table 3.	Overall	Internal	Consistency	of t	he CROI.
----------	---------	----------	-------------	------	----------

Note. Above are the internal consistency coefficients for the CROI. The coefficients in the Krauss and Hood (2013) represent an average over four U.S. samples. Therefore, the average is based on six total U.S. samples.

2.1.3. Procedure

The survey was administered via Qualtrics. The order of the scales was randomized. This study was approved by the university's Institutional Review Board.

2.2. Results

2.2.1. Multidimensional Scaling Analysis

Multidimensional scaling (MDS) was conducted on the student sample to determine whether the CRC model was replicable. In the current study, the hypothesized Commitment and Reflectivity dimensions were extracted and all four theorized quadrants were apparent. Thus, the general premises of the CRC model were replicated. The MDS Euclidean distance model of the CROI subscales is depicted visually in Figure 2.

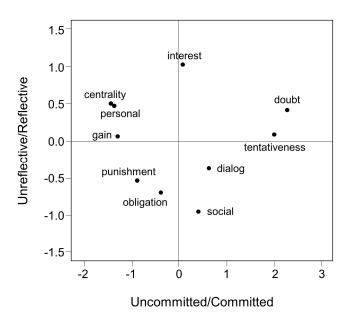


Figure 2. MDS Euclidean distance model of the CROI in the Student sample.

To determine whether the dimensions themselves were similar, the loadings from the current sample were rotated to the coordinates that Krauss and Hood (2013) found. A congruence coefficient of 0.88 for the Reflectivity dimension suggested that the Reflectivity dimension was very similar (Lorenzo-Seva and ten Berge 2006) to the one originally reported in Krauss and Hood (2013). However, the Commitment dimension only had a congruence of 0.80, which suggested that the Commitment dimension in the current study was somewhat different than that reported in Krauss and Hood (2013). In keeping with these earlier results, the current study found that Centrality, Personal, and Interest were the orientations highest on the Commitment dimension. However, the low pole of the Commitment dimension appeared somewhat different. In the current study, Social and Tentativeness demonstrated the lowest scores on the Commitment dimension, whereas Krauss and Hood (2013) found Social and Obligation to be lowest on the Commitment dimension. Overall, the Committed/Reflective orientations appeared to be lower on Commitment than found in Krauss and Hood (2013).

2.2.2. Internal Consistency

The reliability coefficients for the student sample are found in Table 3. An alpha level over 0.80 is viewed as good and over 0.70 is satisfactory (Loewenthal 2001; Streiner 2003). The average Cronbach's alpha coefficients of the CROI ($\alpha = 0.85$), indicate consistent and good overall reliability. All subscales had reliabilities equal to or greater than 0.80 with the exception of the Gain subscale ($\alpha = 0.76$). Nine out of ten subscales posted reliabilities above those reported in the original work (Krauss and Hood 2013).

2.2.3. Construct Validity

The correlations between the CROI, I/E-Revised, and Quest are shown in Table 4. In the student sample, the I orientation showed strong positive correlations with Personal and Centrality but relatively moderate correlations with Gain and Interest. Additionally, the I orientation showed moderate negative correlation with Doubt and Tentativeness. The correlations between I and Punishment and Obligation were small. Similar patterns were revealed in the correlations with Ep. Ep showed strong positive correlations with Personal, Centrality, and Gain, followed by moderate positive correlations with Punishment and negative correlations with Doubt and Tentativeness. Other than a strong relationship with Social, Es was less related to the CROI than I and Ep, Finally, Quest orientation showed strongest correlation with Dialog, followed by moderate correlations with Doubt and Tentativeness.

Table 4. Correlations from both samples between the CROI subscales and established measures of I/E-Revised and Quest.

		Intr	insic		Extr	insic	e Persona	al	Ex	trins	ic Social	l		Qu	ıest	
	Study	y 1	Study	y 2	Study	y 1	Study	y 2	Stud	y 1	Stud	y 2	Stuc	ly 1	Stud	y 2
Personal	0.72	**	0.77	**	0.80	**	0.65	**	0.20	*	0.12	**	0.12		-0.11	**
Centrality	0.87	**	0.88	**	0.67	**	0.53	**	0.16	**	0.11	**	0.00		-0.19	**
Gain	0.53	**	0.58	**	0.63	**	0.60	**	0.25	**	0.22	**	0.14		-0.01	
Punishment	0.26	**	0.36	**	0.39	**	0.42	**	0.21	**	0.22	**	0.20	**	0.08	
Obligation	0.21	**	0.13	**	0.23	**	0.24	**	0.21	**	0.29	**	0.20	**	0.21	**
Social	0.04		0.03		0.05		0.22	**	0.64	**	0.78	**	0.06		0.29	**
Doubt	-0.47	**	-0.50	**	-0.35	**	-0.40	**	-0.13		-0.02		0.36	**	0.35	**
Tentativeness	-0.54	**	-0.51	**	-0.20	**	-0.14	**	-0.09		0.02		0.36	**	0.43	**
Dialog	-0.03		-0.02		0.13		0.08		0.07		0.13	**	0.56	**	0.46	**
Interest	0.48	**	0.48	**	0.25	**	0.28	**	0.08		0.11	*	0.15	*	0.18	**

Note. * denotes *p* values less than 0.05, and ** denotes *p* values less than 0.001.

3. Study 2

Study 2 was designed to examine whether the CRC model replicates in a nationally representative sample, further evaluate psychometric properties of the CROI, and to examine the convergent validity of the CROI with Intrinsic, Extrinsic and Quest orientations (Batson and Schoenrade 1991a, 1991b; Gorsuch and McPherson 1989).

3.1. Method

3.1.1. Participants

The sample, comprising 564 participants, was a nationally representative quota sample that was recruited through Qualtrics (2016). The sample was recruited to be representative based on age, gender, race, and socioeconomic status. Respondents included 564 adults with an average age of 38.65 years (SD = 13.23), of which 288 were female and 276 were male. Racial demographics, socioeconomic status (SES), and religious affiliation are listed in Table 1.

3.1.2. Measures

The measures were the same as in Study 1. Reliability of I was $\alpha = 0.84$. Reliability of Ep was $\alpha = 0.76$. Reliability of Es was $\alpha = 0.85$. Reliability of the Q was $\alpha = 0.80$.

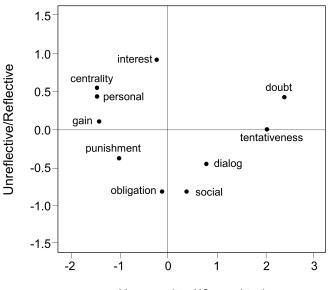
3.1.3. Procedure

Similarly, this study followed the same procedure as Study 1 and was approved by the university's Institutional Review Board.

3.2. Results

3.2.1. Multidimensional Scaling Analysis

MDS was conducted to determine whether the CRC model was replicable in this nationally representative sample. As in Study 1, Commitment and Reflectivity dimensions were extracted and all four theorized quadrants were apparent. Thus, the general premises of the CRC model were replicated. The MDS Euclidean distance model of the CROI is depicted visually in Figure 3.



Uncommitted/Committed

Figure 3. MDS Euclidean distance model of the CROI in the National Quota sample.

3.2.2. Internal Consistency

The reliability coefficients for the nationally representative sample are found in Table 3. The average Cronbach's alpha coefficients of the CROI ($\alpha = 0.86$), indicates consistent and good overall reliability. In the current sample, all subscales were equal to or greater than 0.80 with the exception of the Obligation Subscale ($\alpha = 0.74$). Nine out of ten subscales again outperformed the reliabilities originally reported by Krauss and Hood (2013).

3.2.3. Test-Retest Reliability

As described above, a subset of 100 participants from the sample opted to retake the CROI approximately two weeks following the initial administration. An intraclass correlation (ICC) based on the absolute agreement of the two time points was computed for each subscale, as shown in Table 5. The average of these coefficients was ICC = 0.87, suggesting that participants were generally consistent in their responses to the subscales.

Subscale	Intraclass Correlation
Personal	0.95
Centrality	0.96
Gain	0.91
Punishment	0.79
Obligation	0.73
Social	0.83

Table 5. Test-retest Reliability of the CROI in Study 2.

Table 5. Cont.

Note. Average number of days between tests was M = 12.94, SD = 1.96.

3.2.4. Confirmatory Factor Analysis

A confirmatory factor analysis was conducted on the nationally representative sample to analyze whether the structure of the CROI could be replicated using the full 10-factor model of the CROI. This was done to test the CROI's structure in a diverse sample and because Krauss and Hood (2013) used a sample size below the recommended eight participants per item plus an additional 50 (Meyers et al. 2006). By this standard, the sample size for the CROI should exceed 550 participants, which was accomplished with the current sample.

Two models were analyzed and goodness of fit was assessed for each. The first model did not account for response sets, and the second model added two method factors to control for the presence of reverse-scored items.

In the first model, individual items were restricted to load on only one scale. The second model was the same as the first, but added two method factors (for positive and negative items). Standards for interpreting the fit indices were based on the recommendations made by Meyers et al. (2006) as follows: CFI \geq 0.90, PCFI \geq 0.50, and RMSEA \leq 0.06.

The results of both CFA models demonstrated satisfactory fit. In the first CFA, the model fit was adequate, $\chi^2(1845) = 5534.27$, CFI = 0.83, PCFI = 0.79, RMSEA = 0.06. In the second CFA, the model produced an even better fit, $\chi^2(1781) = 4048.08$, CFI = 0.90, PCFI = 0.82, RMSEA = 0.04. The factor loadings for the second model are reported in Table 6.

Some of the factor loadings for items in the Obligation subscale appear to be relatively low, which may indicate that the Obligation subscale is measuring multiple similar constructs. Additionally, some items that loaded poorly on the Punishment subscale. Eliminating or revising these items could improve model fit.

Subscales	Factor Loading	Positive	Negative					
Personal								
item 1	-0.650		0.451					
item 2	-0.801	0.415						
item 3	-0.599		0.139					
item 4	-0.619	0.504						
item 5	-0.760	0.444						
item 6	-0.395		0.485					
	Central	lity						
item 1	-0.720	0.462						
item 2	-0.814	0.346						
item 3	-0.812	0.392						
item 4	-0.837		0.298					
item 5	-0.741		0.321					
item 6	-0.770		0.441					

Table 6. Factor Loadings for the CFA Model 2.

	lable 6.	Com.						
Subscales	Factor Loading	Positive	Negative					
Gain								
item 1	-0.579	0.520						
item 2	-0.435	0.621						
item 3	-0.657	0.537						
item 4	-0.555		0.315					
item 5	-0.323	0.565						
item 6	-0.529		0.201					
	Punishn	nent						
item 1	0.592	0.480						
item 2	0.431	0.480						
item 3	0.606	0.431						
item 4	0.625	0.334						
item 5	0.665	0.363						
item 6	0.255		0.486					
	Obligat	ion						
item 1	0.638	0.534						
item 2	0.368	0.543						
item 3	0.589	0.434						
item 4	0.481	0.136						
item 5	0.589		0.317					
item 6	0.322		0.549					
item 7	0.247		0.099					
item 8	0.352		0.426					
item 0	Socia	.1	0.420					
item 1	0.708	0.500						
item 2	0.698	0.500	0.419					
item 3	0.370	0.655	0.417					
item 4	0.581	0.553						
item 5	0.724	0.483						
item 6	0.680	0.465	0.276					
item 0	Doub	\t	0.270					
item 1	0.796	0.219						
item 2	0.695	0.079						
		0.079	0.015					
item 3	0.642		0.015					
item 4	0.643	0.071	0.211					
item 5	0.674	0.271	0.070					
item 6 item 7	0.619 0.652	0.343	0.073					
	Tentative							
item 1	0.556	0.202						
item 2	0.731	0.183						
item 3	0.716	0.100	0.291					
item 4	0.775		0.285					
item 5	0.576	0.336	0.200					
item 6	0.812	0.000	0.303					
nem o		a	0.303					
itam 1	Dialo	0						
item 1	0.475	0.423	0.401					
item 2	0.775		0.401					
item 3	0.704		0.407					
item 4	0.633	0.004	0.369					
item 5	0.625	0.334	0 401					
item 6	0.726		0.421					

 Table 6. Cont.

Subscales	Factor Loading	Positive	Negative
	Intere	st	
item 1	0.701		0.323
item 2	0.675	0.397	
item 3	0.635	0.432	
item 4	0.681		0.300
item 5	0.718	0.418	

0.435

0.697

Table 6. Cont.

3.2.5. Construct Validity

item 6

Similar to the patterns revealed in Study 1, the I orientation showed strong positive correlations with Personal, Centrality, and Gain but relatively moderate correlations with Punishment and Interest. Additionally, the I orientation showed moderate negative correlation with Doubt and Tentativeness. The correlation between I and Obligation was small. Similar patterns were revealed in the correlations with Ep. Ep showed strong positive correlations with Personal, Centrality, and Gain, followed by moderate positive correlations with Punishment and a moderate negative correlation with Doubt. Es was strongly correlated with Social but otherwise had had smaller correlations with the CROI subscales than I and Ep. Finally, Quest orientation was most strongly correlated with Dialog, followed by moderate correlations with Tentativeness and Doubt. These correlations for the representative sample are depicted visually in Figure 4 and support Krauss and Hood's (2013) contention that I and Ep are Committed/Unreflective orientations, Es is Uncommitted/Unreflective orientation, and Q is an Uncommitted/Reflective orientation.

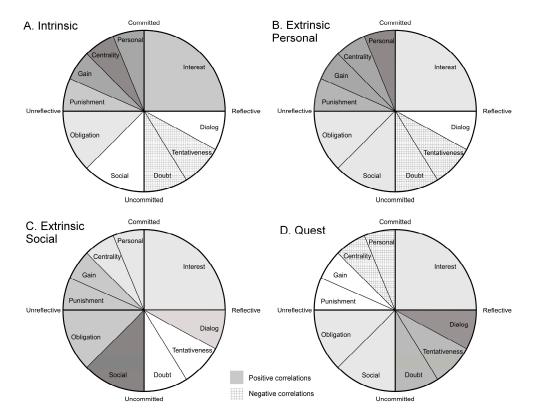


Figure 4. Above is an illustration of the established models (I/E–Revised and Quest), and how the correlations with the CROI overlap. Darker colors represent stronger Correlations.

4. General Discussion

On the whole, both samples replicated the main points of the CRC model as well as supporting the CROI as a reliable and valid measure of religious orientation. At present, this study is the only known replication of Krauss and Hood's (2013) work on the foundational concept of how religious orientations relate to one another. The current study also is the first to examine the test-retest reliability of the CROI. In general, the results show that most of the subscales exhibited good test-retest reliability.

As predicted by the CRC model, Commitment and Reflectivity dimensions were extracted in both samples. All four theorized quadrants were apparent, and no orientations were outside of the hypothesized quadrant. Thus, the general premises of the CRC model were replicated.

Some differences in the Commitment dimension were found between our findings and those reported in Krauss and Hood (2013), specifically in what orientations most indicated low commitment. In general, the Uncommitted/Reflective orientations of Tentativeness, Doubt, and Dialog were less committed in the current studies than was found by Krauss and Hood (2013). These orientations were derived from the Quest scaleand gives a unique perspective as to what might be motivating an individual high in Quest.

We also replicated the Krauss and Hood (2013) finding that Interest captures a highly Committed/Reflective orientation. This is reminiscent of Allport's (1950) influential idea of "mature religion," lending further support to Krauss and Hood's claim that the analysis of spiritual and religious beliefs appears to be different than doubt and uncertainty.

Overall, the CROI subscales exhibited good reliability, and were consistently more reliable in both samples than originally found by Krauss and Hood (2013). In the nationally representative sample, Obligation was the only subscale that exhibited satisfactory, but not good, reliability. Further research may be useful for examining whether Obligation is measuring multiple constructs - one being how much a respondent's loved ones care that they go to religious services and the other being how much those loved ones' opinions influence or pressure the individual into going.

As for the structure of the CROI, the results suggest that the CROI scales accurately represent the measured dimensions. In fact, the current study showed better fit than did Krauss and Hood (2013), which is unusual for replication studies. However, there is some room for improvement in the CROI, particularly with regard to the Obligation subscale.

The CROI subscales were strongly and appropriately correlated with the original measures of I, Ep, Es, and Q. The pattern of correlations was virtually identical to that found by Krauss and Hood (2013). These correlations are suggestive of the CROI's construct validity. These correlations also demonstrate the sensitive nature of the CROI subscales, which can provide insight into the original I, Ep, Es, and Q scales.

The I scale had the strongest association with Centrality in both studies, suggesting that the two scales are likely measuring approximately the same thing. Additionally, the I scale had a strong correlation with Personal, moderate associations with Gain, Punishment, and Interest, but was negatively associated with Doubt and Tentativeness. The evidence gives merit to the theory that the I scale is measuring a commitment to faith (Centrality, Personal, and Gain) that tends slightly toward dogmatism with little regard for ambiguity (Doubt and Tentativeness). In short, the I scale seems to be measuring a faith commitment that tends to be somewhat unreflective.

In both samples, Ep showed the strongest association with Personal, followed by positive correlations with Gain, Centrality, and Punishment. Additionally, Ep showed small positive correlations with Interest, and Obligation. Social also demonstrated a small positive correlation, but this was only significant in the much larger, nationally representative sample. Conversely, Ep was negatively correlated with the Uncommitted/Reflective orientations of Doubt and Tentativeness. These findings were similar to findings reported by Krauss and Hood (2013). Krauss and Hood suggested that overall, Ep demonstrates a Committed/Unreflective position. With that said, the correlation between Ep and Interest in the present study suggests that Ep may retain some reflective identity. This description makes more sense because, in the CROI's theoretical structure, Personal borders Interest,

which is a Committed/Reflective orientation. Furthermore, previous evidence suggests that I and Ep tend to be positively correlated (Kirkpatrick and Hood 1990; Krauss and Hood 2013), and if I is positively correlated with Interest; it would make sense that Ep might be as well.

In both samples, Es was most strongly associated with Social followed by weaker correlations with Obligation, Punishment, and Gain. Interest, and Dialog also demonstrated small positive correlations, but these findings were only significant in the nationally representative sample. These findings support the theory that individuals who score high in Es may vary in levels of faith commitment, but are primarily unreflective in their reasons for joining a religious community and/or participating in religious activities (Krauss and Hood 2013).

Quest (Batson et al. 1993) was most strongly associated with Doubt, Tentativeness, and Dialog, which are the three CROI orientations in the Uncommitted/Reflective quadrant. Quest also had small positive correlation with Interest, Obligation, and Social, which are the orientations in both quadrants neighboring the Uncommitted/Reflective quadrant. This indicates that Quest is clearly part of the Uncommitted/Reflective quadrant.

Quest (Batson et al. 1993) was originally developed to measure the reflective portion of Allport's (1950) concept of a mature religion, which combines faith commitment with the ability to deal with complex questions pertaining to morality and evil, viewing uncertainty as healthy, and remaining open to change. In short, Allport's mature religion was a Committed/Reflective orientation, similar to the CROI's Interest orientation. However, Quest demonstrated only a small relationship with Interest in both samples and the CROI scales that were derived from Quest loaded at the low pole of the Commitment dimension in both samples. Both of these findings suggests that Quest is not measuring pure reflectivity, but instead a kind of reflectivity that is pulling away from religion. This finding supports Krauss and Hood's (2013) contention that the Quest scale appears to be measuring something closer to agnosticism and spiritual struggle, with no real interest in religious theory. For example, Quest has been shown to predict a lack of interest in religion in multiple cultures (Beck and Jessup 2004; Krauss and Hood 2013; Watson et al. 1989). Krauss and Hood (2013) also found that Quest had no relationship with interest in world religions in 5 Romanian samples and an inconsistent, but generally positive, relationship with interest in world religions in 3 US samples. In contrast, Krauss and Hood (2013) found that Interest was consistently related to an interest in religion and an interest in world religions in both the US and Romania. Interest was also the only religious orientation to predict lower ethnocentrism in both US and Romanian samples after controlling for right wing authoritarianism (Altemeyer and Hunsberger 1992), and social dominance orientation (Pratto et al. 1994). In short, these two types of reflectivity are very different and indicate different levels of commitment.

Although this study supports the adequacy, reliability, and validity of the CROI and the CRC model, future research should be focused on the further development of the CRC model and the CROI. It is typical for circumplex models to measure quadrants more equally than the CROI does. For example, additional orientations beyond Interest should be added to better measure the Committed/Reflective quadrant. With that said, the CRC model does largely represent the current field of measurement in this respect. Additionally, it is possible that the finding in the current studies would not replicate in all populations. Future research should be focused on examining the functionality of the CRC model across nonwestern cultures.

A short version of the CROI that measures the CRC model should also be established. In the meantime, Krauss and Hood's (2013) recommendation to use the Centrality, Interest, Doubt, and Social subscales seems justified. For researchers interested in measuring just reflectivity, Doubt (7 items) and Interest (6 items) may suffice, and would be very close in length to the 12-item Quest scale (Batson et al. 1993).

Practitioners may find the CROI useful for gaining a greater understanding of how religion is practiced in their clients' lives. This may lead to identifying potential orientations that may be associated with negative mental health issues and maladaptive behaviors. The measure could then be used as an evaluation metric to determine if an individual's religious orientation can be changed through interventions. In conclusion, The CRC model and CROI have been helpful in highlighting how religious orientations relate and can be grouped into families. This approach has highlighted that previous measurement approaches have rarely captured a committed and reflective orientation. Allport (1950) laid out the benefits that he observed in churchgoers who are both committed and reflective. However, Allport's attempts to measure this orientation with survey instruments (i.e., the Intrinsic Scale and the Four-Fold typology) were unsuccessful (Batson et al. 1993; Krauss and Hood 2013). Batson attempted to capture the reflectivity within Allport's (1950) committed and reflective orientation with his Quest scale, but the Quest scale has been shown to a capture an uncommitted approach that shows a lack of interest in religion (Beck and Jessup 2004; Krauss and Hood 2013; Watson et al. 1989). In contrast, Krauss and Hood's (2013) Interest scale within the CROI appears to capture a committed and reflective approach.

The data from this study support Krauss and Hood's (2013) assertion that the orientations measured by the established scales of I/E-Revised and Quest have been incorporated into the CROI. The CROI appears to clarify much of the ambiguity inherent in the older scales by breaking down what were very broad orientations into very specific suborientations and integrating them in a much larger landscape. This landscape can be used to clarify and group additional established models of religious and spiritual orientations so that future researchers can better make decisions about measurement. The CRC model and the CROI can thereby help simplify the field, while also ensuring more comprehensive measurement.

5. Materials and Methods

5.1. Materials

For both studies, the Statistical Package for the Social Sciences (SPSS) was used for the all analysis. Additional packages beyond the basic SPSS program were needed for the multidimensional Scaling (Alscale) and the Confirmatory Factor Analysis (AMOS).

All raw data have been reviewed by the university's IRB. The full raw data set for the representative sample has been made available for public view at the Inter-university Consortium for Political and Social Research (ICPSR). However, the IRB noted that since the publication may be required to identify the institution, the specifics regarding religious affiliation and ethnicity posed a risk that someone from the student sample could be identifiable. Therefore, identifiable demographics have been removed from the student sample. All the data is accessible through the URL, http://doi.org/10.3886/E100943V1.

5.2. Methods

5.2.1. Multidimensional Scaling Analysis

The reverse coded items of the CROI were rescored and subscale scores were computed for each of the 10 subscales. The multidimensional scaling analyses was conducted through the Multidimensional Scaling (ALSCAL) option in SPSS. The Multidimensional Scaling (ALSCAL) was selected in the dropdown analysis box, and then the 10 subscale scores of the CROI were moved into the variables window. Next the "create distances from data" was checked and the Euclidean distance was selected for the measure type. All of the plot options were selected and then the analysis was then run. This process was done for both the university sample and the nationally representative sample.

5.2.2. Internal Consistency

Cronbach Alpha was used for both studies to test the internal consistency of all 10 subscales.

5.2.3. Test-Retest Reliability

Roughly two weeks after the representative sample was first collected, Qualtrics panels contacted the participants, N = 564, through email and collected data from the first 100 responses for the second sample. An average of the items in each subscale were created for time 1 and time 2. Intraclass correlations were then used to analyze the test-retest reliability between each pair of means.

5.2.4. Confirmatory Factor Analysis

The analyses were performed using the SPSS package of AMOS. In the first model, covariances between all 10 latent factors were allowed using a double-headed arrow. In the second model, positive and negative method factors were added to account for differences in responses to positive and negative items. All positive and negative items were tied to their perspective method factor using a single-headed arrow. The raw data set, n = 564, was attached to amos and used for the analysis.

Author Contributions: Steven L. Isaak (study conceptualization, introduction, data collection, data preparation, analysis, report writing), Jesse R. James (editing, data preparation, analysis, and figure construction), Mary K. Radeke (editing, introduction, HSRC application, and data collection), Stephen W. Krauss (editing, introduction, data analysis, and report writing), Keke L. Schuler (editing, report writing, and formatting), Eric R. Schuler (editing, report writing, and formatting).

Conflicts of Interest: The authors declare no conflict of interest.

Disclaimer: The opinions in this paper are those of the authors alone. This paper does not reflect the views of the Central Washington University, the Uniformed Services University of the Health Sciences, or the US Army.

Appendix A

The Circumplex Religious Orientation Inventory (CROI)

Included below is Krauss and Hood's (2013) full version of the CROI. It contains ten subscales that measure 10 different orientations for a total of 63 items. All reversed scored items will be followed with an asterisk (*).

Personal subscale

- 1. Prayer is NOT a very good way to seek guidance. *
- 2. God comforts and shelters me.
- 3. God might watch me, but he does NOT help me. *
- 4. God protects me if I pray.
- 5. God helps me if I ask him.
- 6. I do NOT turn to God more when I have problems. *

Centrality subscale

- 1. The meaning I give my life comes from religion.
- 2. Religion is the driving force in my life.
- 3. I find the purpose of my life in religion.
- 4. Religion is NOT the most important thing in my life. *
- 5. There are many things in my life that are more important than religion. *
- 6. Religion is NOT a big part of my life. *

Gain subscale

- 1. If I become more faithful, God would improve my health.
- 2. Praying to God is a good way to help my career.
- 3. If I am Faithful, God will help me be successful in life.
- 4. God does not reward the faithful with improved health. *
- 5. Prayer is a good way to get what I want.
- 6. God would not improve my career if I became more faithful. *

Punishment subscale

- 1. I have obligations to God that if NOT respected will cause bad things to happen to me.
- 2. Bad things happen in life to those who do NOT worship God.

- 3. I'm scared that if I would NOT go to church/synagogue God would cause something bad to happen.
- 4. God would cause bad things to happen to me if I became less faithful.
- 5. If I don't do certain things, God will cause bad things to happen to me.
- 6. Making fun of religion will NOT affect your health. *

Obligation subscale

- 1. I feel a lot of pressure from my friends and family to go to religious services.
- 2. My friends and family would be upset if I did NOT go to church/synagogue.
- 3. I feel pressured because the important people in my life place more importance on being religious than I do.
- 4. My friends and family place much more importance than I do on going to church/synagogue.
- 5. Nobody pressures me into being religious. *
- 6. Nobody important in my life would be angry with me if they thought I never went to church. *
- 7. I don't feel pressure to go to church/synagogue because important people in my life go. *
- 8. Important people in my life do not influence whether I go to church/Synagogue. *

Social subscale

- 1. If I go to church/synagogue it is to make friends.
- 2. I do NOT go to church/synagogue to make friends. *
- 3. Going to church/synagogue is very important because I can spend time with my friends.
- 4. If I go to church/synagogue it is because I enjoy seeing people I know there.
- 5. If I go to church/synagogue it is to make and see friends.
- 6. If I go to church/synagogue it is NOT to see my friends. *

Doubt subscale

- 1. It can be good to doubt your beliefs about religion.
- 2. It does NOT bother me when I have doubts about my beliefs about religion.
- 3. It is better to be sure about your religious beliefs than have some doubts. *
- 4. I do NOT like to question my beliefs about my religion. *
- 5. I value my doubts and uncertainties about religion.
- 6. It bothers me to question my beliefs about religion. *
- 7. For me, doubting is an important part of what it means to be religious.

Tentativeness subscale

- 1. You can never know the complete truth about religious matters.
- 2. You can never be sure if your beliefs about religion are correct.
- 3. It's easy to know whether my beliefs about religion are correct. *
- 4. I'm sure my beliefs about religion are correct. *
- 5. Some of my beliefs about religions are probably wrong.
- 6. It is obvious that my beliefs about God are correct. *

Dialog subscale

- 1. I have reexamined my beliefs about religion when my life has changed.
- 2. My experiences have NOT changed my feelings toward religion. *
- 3. My beliefs about religion did NOT change because of major events in my life. *
- 4. Personal tragedies and hard times in my life have NOT changed how I think about religion. *
- 5. My life experiences have made me reexamine my views on religion.
- 6. No event in my life changed how I think about religion. *

Interest subscale

- 1. I'm NOT very curious about religious theories. *
- 2. I like to closely examine religious ideas.
- 3. I find religious discussions fascinating.
- 4. I am NOT interested in theoretical discussions about religion. *
- 5. I love to find out new things about religion.
- 6. I do NOT like to learn about religion. *

References

Allport, Gordon W. 1950. *The Individual and His Religion, a Psychological Interpretation*. New York: Macmillan. Allport, Gordon W., and J. Michael Ross. 1967. Personal religious orientation and prejudice. *Journal of Personality and Social Psychology* 5: 432–43. [CrossRef] [PubMed]

- Altemeyer, Bob, and Bruce Hunsberger. 1992. Authoritarianism, Religious Fundamentalism, Quest, and prejudice. International Journal for the Psychology of Religion 2: 113–33. [CrossRef]
- Batson, Charles Daniel. 1976. Religion as prosocial: Agent or double agent? *Journal for the Scientific Study of Religion* 15: 29–45. [CrossRef]
- Batson, Charles Daniel, and Patricia A. Schoenrade. 1991a. Measuring religion as Quest: 1) Validity concerns. Journal for the Scientific Study of Religion 30: 416–29. [CrossRef]
- Batson, Charles Daniel, and Patricia A. Schoenrade. 1991b. Measuring religion as Quest: 2) Reliability concerns. Journal for the Scientific Study of Religion 30: 430–47. [CrossRef]
- Batson, Charles Daniel, Patricia A. Schoenrade, and W. Larry Ventis. 1993. *Religion and the Individual: A Social-Psychological Perspective*. New York: Oxford University Press.
- Beck, Richard, and Ryan K. Jessup. 2004. The multidimensional nature of Quest motivation. *Journal of Psychology* and Theology 32: 283–94.
- Beck, Richard, Lynley Baker, Marla Robbins, and Stacy Dow. 2001. A second look at Quest motivation: Is Quest unidimensional or multidimensional? *Journal of Psychology and Theology* 29: 148–57.
- Burris, Christopher T. 1999. Quest Scale (Batson and Schoenrade 1991a, 1991b). In *Measures of Religiosity*. Edited by Peter C. Hill and Ralph W. Hood. Birmingham: Religious Education Press, pp. 138–41.
- Duriez, Bart, Johnny R. J. Fontaine, and Dirk Hutsebout. 2000. A further elaboration of the Post-Critical Belief scale: Evidence for the existence of four different approaches to religion in Flanders-Belgium. *Psychologica Belgica* 40: 153–81.
- Gorsuch, Richard L. 1994. Toward motivational theories of intrinsic religious commitment. *Journal for the Scientific Study of Religion* 33: 315–25. [CrossRef]
- Gorsuch, Richard L., and Susan E. McPherson. 1989. Intrinsic/Extrinsic measurement: I/E-Revised and single-item scales. *Journal for the Scientific Study of Religion* 28: 348–54. [CrossRef]
- Hathaway, William. 2016. Religion as a Potentiator in Human Motivation. Paper presented at the Division 36 Mid-year Conference, Brooklyn, NY, USA, March 12.
- Hill, Peter C. 1999. 3.10 Religious Orientation Scale-Revised. In *Measures of Religiosity*. Edited by Peter C. Hill and Ralph W. Hood. Birmingham: Religious Education Press, pp. 154–56.
- Peter C. Hill, and Ralph W. Hood Jr., eds. 1999. Measures of Religiosity. Birmingham: Religious Education Press.
- Hill, Peter C., Kenneth I. Pargament, Ralph W. Hood, Michael E. McCullough Jr., James P. Swyers, David B. Larson, and Brian J. Zinnbauer. 2000. Conceptualizing religion and spirituality: Points of commonality, points of departure. *Journal for the Theory of Social Behavior* 30: 51–57. [CrossRef]
- Hill, Peter C., Evonne Smith, and Steven J. Sandage. 2012. Religious and spiritual motivations in clinical practice. In *The Psychology of Religion and Spirituality for Clinicians: Using Research in Your Practice*. Edited by Jamie D. Aten, Kari A. O'Grady and Everett L. Worthington. New York: Routledge, pp. 69–99.
- Hunsberger, Bruce. 1989. A short version of the Christian orthodoxy scale. *Journal for the Scientific Study of Religion* 28: 360–65. [CrossRef]
- Hunt, Richard A., and Morton King. 1971. The intrinsic-extrinsic concept: A review and evaluation. *Journal for the Scientific Study of Religion* 10: 339–56. [CrossRef]
- Kirkpatrick, Lee A. 1989. A psychometric analysis of the Allport-Ross and Feagin measures of Intrinsic-Extrinsic religious orientation. *Research in the Social Scientific Study of Religion* 1: 1–31.
- Kirkpatrick, Lee A., and Ralph W. Hood. 1990. Intrinsic-Extrinsic religious orientation: The boon or bane of contemporary psychology of religion? *Journal for the Scientific Study of Religion* 29: 442–62. [CrossRef]
- Krauss, Stephen. 2017. Ministry at the Intersection of Psyche and Soul. Paper presented at the Evangelical Lutheran Church of America's Rostered Ministers Gathering, Atlanta, GA, USA, August 7–10.
- Krauss, Stephen W., and Ralph W. Hood. 2013. A New Approach to Religious Orientation: The Commitment-Reflectivity Circumplex. Amsterdam: Rodopi.
- Loewenthal, Kate M. 2001. An Introduction to Psychological Tests and Scales. Philadelphia: Psychology Press.
- Lorenzo-Seva, Urbano, and Jos M. F. ten Berge. 2006. Tucker's Congruence Coefficient as a Meaningful Index of Factor Similarity. *Methodology* 2: 57–64. [CrossRef]
- Meyers, Lawrence S., Glenn Gamst, and Anthony J. Guarino. 2006. *Applied Multivariate Research: Design and Interpretation*. London: Sage.

- Pratto, Felicia, James Sidanius, Lisa M. Stallworth, and Bertram F. Malle. 1994. Social dominance orientation: A personality variable predicting social and political attitudes. *Journal of Personality and Social Psychology* 67: 741. [CrossRef]
- Qualtrics. 2016. *Survey Research Suite*, (version 06.2016); Provo: Qualtrics. Available online: https://www.qualtrics.com/ (accessed on 1 June 2017).
- Ryan, Richard M., Scott Rigby, and Kristi King. 1993. Two types of religious internalization and their relations to religious orientations and mental health. *Journal of Personality and Social Psychology* 65: 586–86. [CrossRef] [PubMed]
- Shirley, Sarah, Stephen Krauss, and Marjan Holloway. 2016. Claiming Our Place at the Table: Chaplain Research Initiatives. Paper presented at the APC 2016 Together@theTable: Chaplains as Strategic Partners 2016, Association of Professional Chaplains, Lake Buena Vista, FL, USA, June 25.
- Steger, Michael F., Natalie K. Pickering, Erica Adams, Jennifer Burnett, Joo Yeon Shin, Bryan J. Dik, and Nick Stauner. 2010. The quest for meaning: Religious affiliation differences in the correlates of religious quest and search for meaning in life. *Psychology of Religion and Spirituality* 2: 206. [CrossRef]
- Streiner, David L. 2003. Starting at the beginning: An introduction to coefficient alpha and internal consistency. *Journal of Personality Assessment* 80: 99–103. [CrossRef] [PubMed]
- Watson, Paul J., Ronald J. Morris, and Ralph W. Hood. 1989. Interactional factor correlations with Means and End religiousness. *Journal for the Scientific Study of Religion* 28: 337–47. [CrossRef]
- Wormald, Benjamin. 2015. America's Changing Religious Landscape. Available online: http://www.pewforum. org/2015/05/12/americas-changing-religious-landscape/ (accessed on 11 May 2017).



© 2017 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (http://creativecommons.org/licenses/by/4.0/).