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Title

Motivation Matters: Development of a Short Form Measure of Solitude for Adolescents and Emerging Adults

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Aims of the Study

Solitude affords adolescents and emerging adults opportunities for 1982), identity development (Larson, 1997), and self-reflection (Lon task of individuation (Grotevant & Cooper, 1998). Despite these know associated solitude with negative outcomes such as rejection and lo

The purpose of this study was to develop a short form of the Motiva scale draws on Self-Determination Theory (Ryan & Deci, 2002) ar (SDS) (i.e., moving toward the self for creative or reflective purposes withdrawing from people because of rejection or anxiety). The MSS Preference for Solitude Scale (PSS) (Burger, 1995) because the reasons for preferring solitude. Mental health outcomes correlated v individuals' motivation for solitude.

The original MSS (Nicol, 2005) contains 56 items and was tested on scale more user-friendly and applicable to a wider age range, we tes form with 14 items. We gathered three waves of data to assess the with Nicol's (2005) and Burger's (1995) scales and the measures th solitude. Here we present the factor analysis results with final versio

Method

Wave 1: We reduced the original 56 items to 22 and tested it with an ethnically and gender diverse sample of 284 college students. We eliminated items that were redundant, had factor loadings below .40, or had poor face validity. A maximum likelihood exploratory factor analysis with Oblimin rotation indicated a satisfactory two factor solution that replicated Nicol's original findings; it accounted for 42.5% of the variance (the original scale accounted for 40%). Cronbach's alpha was high (Self-determined = .84; Not-self-determined = .87), and the factors were not too correlated with each other (.164).

Wave 2: We eliminated three more items to reduce the scale further, based on these criteria: items loading too highly on both factors, low communality, and high inter-item correlation. We tested this 19-item version with another ethnically and gender diverse sample of 266 college students. Results similar to Wave 1 were obtained with this version of the scale.

Wave 3: We eliminated five more items for this final version. Here we present findings for the short-form of 14 items, tested with an ethnically and gender diverse sample of adolescents from California and Michigan.

Participants

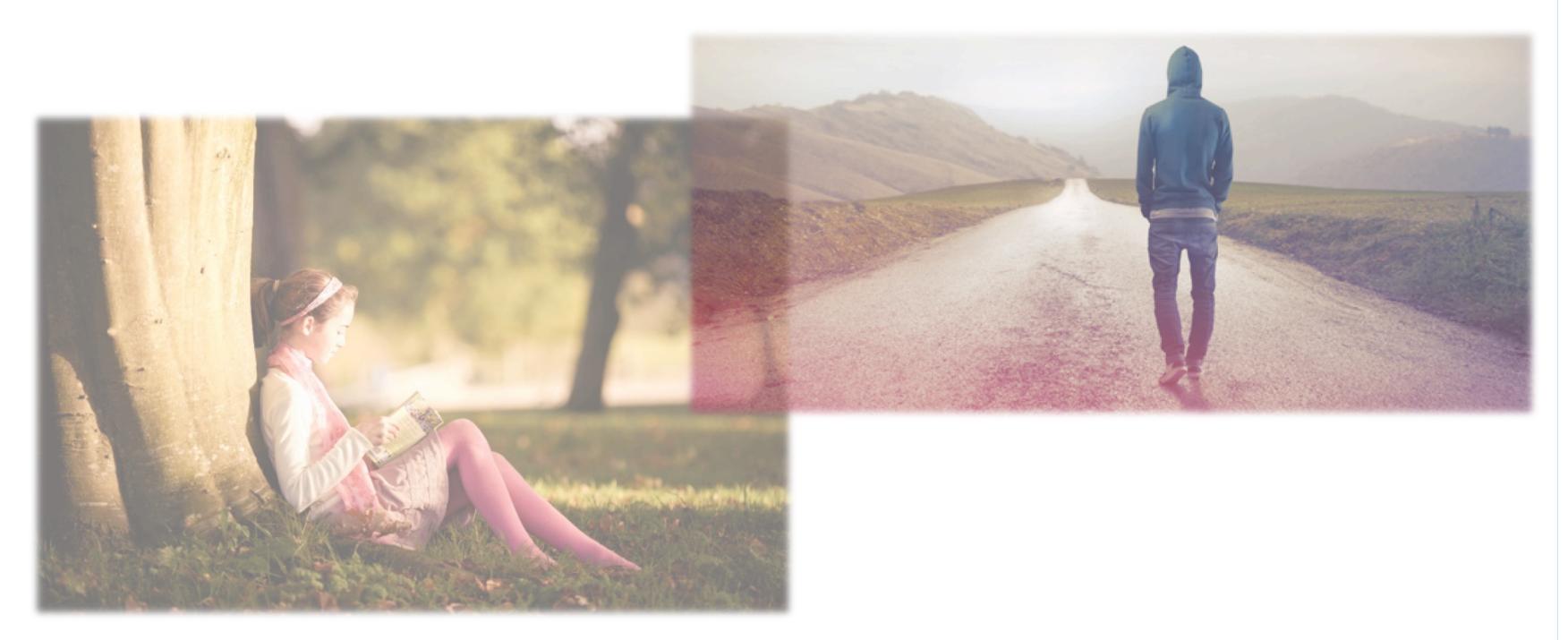
N = 176

14 – 18 years old

53% female

50% Latino 30% White 13% Mixed race 7% Other

Procedure



Participants completed an on-line survey that included our 14-item short-form of the Motivation for Solitude Scale and Nicol's (2005) correlation measures: Preference for Solitude Scale (Burger, 1995); UCLA Loneliness Scale (Hays & DiMatteo, 1987); and the Autonomy and Positive Relations with Others subscales of Ryff's well-being scale (Ryff & Keyes, 1995). In addition, we included the Identity subscale of the Erikson Psychosocial Stage Inventory (Rosenthal, Gurney, & Moore, 1981) and the Extraversion subscale of the Big Five Inventory (John, Naumann & Soto, 2008). Using Mplus, we performed an Exploratory Factor Analysis on these data to test a two-factor solution for a 14-item short form.

Motivation Matters Development of a Short Form Measure of Solitude for Adolescents and Emerging Adults

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Easter Loadings for Salf determined Salitude	Eactor		
 1.73 It helps me gain insight into why I do the things I do 1.68 I value the privacy 1.67 I feel energized when I spend time by myself 1.64 I can engage in activities that really interest me 1.64 I enjoy the quiet 1.57 It sparks my creativity 1.55 Being alone helps me get in touch with my spirituality 1.52 It helps me stay in touch with my feelings 	.87 1 c .86 1 f .86 1 f .75 1 c .71 1 f .67 1 r Correlat + assoc		
Correlations with Self-Determined Solitude	■ assoc Pre Sel		
 derging adults and adults; to make the demerging adults to develop a short rties of our scale and its association he mental health correlates of tested with an adolescent sample. derging adults and adults; to make the demerging adults to develop a short rties of our scale and its association he mental health correlates of tested with an adolescent sample. derging adults and adults; to make the demerging adults to develop a short rties of our scale and its association he mental health correlates of tested with an adolescent sample. derging adults to develop a short rties of the determined solitude of the determ			
	 .68 I value the privacy .67 I feel energized when I spend time by myself .64 I can engage in activities that really interest me .64 I enjoy the quiet .57 It sparks my creativity .55 Being alone helps me get in touch with my spirituality .52 It helps me stay in touch with my feelings Correlations with Self-Determined Solitude + association with Preference for Solitude Not-self-determined Solitude 		

Discussion

Depending on its motivation, solitude affords positive or negative experiences. Only the not-self-determined subscale (NSDS) correlated positively with loneliness and negatively with identity development and extraversion. Similar results with Burger's Preference for Solitude Scale indicate that NSDS does not account for the more constructive and proactive dimension of solitude, which Nicol (2005) calls "Self-determined."

Our research suggests that the motivation to be alone is a key factor in whether the experience of solitude is risky or generative. Solitude is associated with poor mental health outcomes only when it is not self-determined, that is, characterized by a withdrawal from others because of anxiety, discomfort, or rejection.

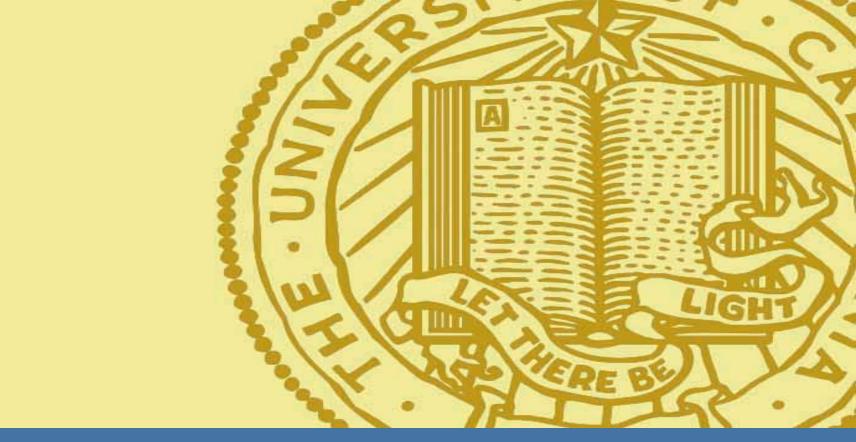
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Results: Exploratory Factor Analysis with a Two-Factor Solution

Variable	1	2	3	4	5	6	7	8
1. Preference for Solitude Scale (PSS)	_							
2. Motivation for Solitude, Self-Determined (SDS)	.34**	-						
3. Motivation for Solitude, Not-Self-Determined (NSDS)	.21**	.27**	-					
4. Identity	29**	08	53**	-				
5. Autonomy	01	.10	37**	.44**	-			
6. Positive Relations with Others	32**	04	60**	.65**	.40**	-		
7. Extraversion	35**	03	25**	.39**	.16*	.41**	-	
8. Loneliness	.29**	08	.64**	62**	31**	77**	45**	-
<i>N</i> = 176								

p* < .05 *p* < .01

Despite fears that solitude behaviors may lead to isolation and loneliness, our findings indicate that when solitude is selfdetermined, that is, intentionally sought for constructive purposes like reflection, emotional regulation, creativity, or insight, it is not correlated with loneliness. These findings support claims that solitude, isolation, and loneliness are distinct states, and that unsociability in childhood (Coplan & Weeks, 2010; Katz & Buchholz, 1999) and volitional solitude or an affinity for aloneness during adolescence may afford positive socio-emotional development (Larson, 1997; Marcoen & Goossens, 1993).



Loadings for Not-Self-Determined Solitude

- don't feel liked when I'm with others
- feel uncomfortable when I'm with others
- feel like I don't belong when I'm with others
- can't be myself around others
- feel anxious when I'm with others
- regret things I say or do when I'm with others

lations with Not-Self-Determined Solitude

- ociation with
- reference for Solitude
- Self-determined Solitude
- oneliness
- ociation with
- dentity
- utonomy
- Positive Relations with Others
- xtraversion