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# Subjective and Objective Hierarchies and Their Relations to Psychological Well-Being: A U.S./Japan Comparison

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## Abstract

Hierarchy can be conceptualized as objective social status (e.g., education level) or subjective social status (i.e., one's own judgment of one's status). Both forms predict well-being. This is the first investigation of the relative strength of these hierarchy-well-being relationships in the U.S. and Japan, cultural contexts with different normative ideas about how social status is understood and conferred. In probability samples of Japanese ( $N = 1,027$ ) and U.S. ( $N = 1,805$ ) adults, *subjective* social status more strongly predicted life satisfaction, positive affect, sense of purpose, and self-acceptance in the United States than in Japan. In contrast, *objective* social status more strongly predicted life satisfaction, positive relations with others, and self-acceptance in Japan than in the United States. These differences reflect divergent cultural models of self. The emphasis on independence characteristic of the United States affords credence to one's own judgment (subjective status), and the interdependence characteristic of Japan gives weight to what others can observe (objective status).

## Keywords

culture/ethnicity, culture and self, emotion, interdependence, social status, well-being, hierarchy

People high in psychological well-being have better job performance, motivation, relationships, and health (Deci & Ryan, 2001; Harter, Schmidt, & Keyes, 2003; Ryff, Singer, & Love, 2004; Segrin & Taylor, 2007). Here, we examine a powerful predictor of psychological well-being—social hierarchy, or rank in society—and investigate for the first time how cultural context influences this link. Specifically, we show that subjective social status, or people's own views of where they stand in the social hierarchy, more strongly predicts well-being in the United States than in Japan. In contrast, objective social status (e.g., level of educational attainment) plays a relatively stronger role for well-being in Japan than in the United States.

Indices of social rank as diverse as occupational status, income, educational attainment, and self-rated position within the social hierarchy are all linked to well-being (Adler, Epel, Castellazzo, & Ickovics, 2000; Anderson, Kraus, Galinsky, & Keltner, 2012; Lorant et al., 2003). Those at the top of the social hierarchy are more optimistic, experience more positive and fewer negative emotions, and feel less threatened and anxious (Keltner, Gruenfeld, & Anderson, 2003). In contrast, people lower in social rank experience more adversity (Almeida, Neupert, Banks, & Serido, 2005) and are subject to negative stereotypes about their abilities (Croizet & Claire, 1998; Fiske,

Cuddy, Glick, & Xu, 2002). Given the pattern in these findings, understanding and assessing where people fit in their relevant social hierarchies is likely to be crucial in fostering psychological health and mitigating psychological dysfunction.

One's social status or position in the hierarchy is multifaceted and can be captured in multiple ways. Indices include objective factors, such as educational attainment, income, and occupation, and also subjective factors, such as one's self-rated position in the relevant hierarchy. We suggest that both the objective and subjective forms of status are important for well-being, but that their relative power differs across cultures. We hypothesize that subjective social status carries greater weight in independent cultural contexts such as the United States, which place greater emphasis on one's own internal thoughts and feelings, than in interdependent cultural contexts such as Japan, where the self is construed as fundamentally connected to others and thus others' views are crucial for well-being (Diener & Suh, 2000; Kitayama, Karasawa, Curhan, Ryff, & Markus, 2010). Because objective social status reflects markers of status that are visible to others and are agreed upon by social consensus, we hypothesize that objective status is a more powerful predictor in interdependent than independent cultural contexts.

## Status and Well-being

In Western contexts, people with higher objective social status have better psychological well-being (Adler et al., 2000; Lorant et al., 2003; Marmot, Ryff, Bumpass, Shipley, & Marks, 1997). They typically control more resources and encounter fewer financial, social, and psychological stressors (Berkman, Glass, Brissette & Seeman, 2000; Matthews, Gallo, & Taylor, 2010). In addition, higher rank offers greater opportunities for self-realization and self-development (Dowd, 1990). More limited but consistent evidence exists for a similar objective social status–well-being link in Japan (Fukuda & Hiyoshi, 2012; Honjo et al., 2006). In Eastern contexts, objective hierarchies have even more legitimacy and positive resonance than they do in the West and are used to organize a wide array of everyday activities (Tu, 1991). People are well aware of their place in these hierarchies and are more comfortable with hierarchical social relations than Europeans and European Americas (e.g., Brockner et al., 2001; Ho, 1995). Japan is a context with particularly strong norms about the importance of objective hierarchies in creating and maintaining the social order (Gelfand et al., 2011).

People’s subjective sense of their position in the social hierarchy is also a powerful predictor of well-being. Adler and colleagues’ pioneering studies reveal that individuals’ self-reported judgments of their position relative to others predicts psychological well-being as well or better than objective social status (Adler et al., 2000; Anderson et al., 2012; Demakakos, Nazroo, Breeze, & Marmot, 2008; Kraus, Adler, & Chen, 2013; Singh-Manoux, Adler, & Marmot, 2003). Two studies investigating these relationships in Japan found similar patterns (Honjo, Kawakami, Tsuchiya, & Sakurai, 2013; Sakurai, Kawakami, Yamaoka, Ishikawa, & Hashimoto, 2010).

No study has directly compared the strength of the relationships between either type of social status and well-being in the United States relative to Japan. As Inaba and colleagues (2005) note, the well-being–status relationships found in the West may not apply in other contexts such as Japan. In particular, because of cultural variation in the importance of objective and subjective social status in the United States and Japan, the well-being–status relationships are unlikely to be equally powerful in each context. In Japan, as in the United States, subjective social status offers the advantage of simultaneously indexing multiple status-relevant factors and capturing whatever status markers are most relevant in a particular context (Adler & Stewart, 2007; Leu, Yen, Gansky, Walton, Adler, & Takeuchi, 2008). Yet, we suggest that the benefit of measures capturing individuals’ personal views of their status is likely more limited in Japan because of the powerful role of publically inscribed, or objective, hierarchy (e.g., educational attainment, status of company, etc.) in shaping most aspects of everyday life (Rai & Fiske, 2011).

## Cultural Differences in Sources of Well-Being

Well-being and its sources differ across cultural contexts. In Japan, well-being centers more around well-managed relationships with others, while in the United States, it depends more on individuals’ personal feelings and emotions (Kitayama & Markus, 2000; Mesquita & Leu, 2007; Uchida, Townsend, Markus, & Bergsieker, 2009). These differences reflect the different models of self pervasive in these contexts (Markus & Kitayama, 2003). These models are inscribed in individual attitudes and values and are also built into the institutions, practices, and artifacts that organize everyday life (Markus & Conner, 2013). According to the *independent* model of self, normative in mainstream U.S. contexts, people are understood as fundamentally independent from others. Consequently, individuals’ own perceptions and subjective reactions are the primary determinants of thoughts, feelings, and actions, and their own internal psychological states are attended to and emphasized (Markus & Kitayama, 2010). As in all contexts, others’ judgments influence thought and behavior, but one’s own views are the most accessible referent for self-evaluation and accomplishment. Such a context affords self-rated (i.e., subjective) social status a particularly important role in well-being.

In contrast, according to the *interdependent* model of self that is normative in Japan, people are understood as fundamentally interconnected with important others. Self-assessment in Japan, therefore, is less about “what do *I* think or feel?” and more about “how am I viewed by *others*?” (Lebra, 2008). Accordingly, the effects of social approval or the “eyes of others” on individuals’ behavior are amplified (Kim, Cohen, & Au, 2010; Kitayama & Imada, 2008). Indeed, in interdependent cultures, public and institutionalized benchmarks of success that signal the community’s respect are primary referents for self-evaluation (Leung and Cohen, 2011; Wirtz & Scollon, 2012). Objective benchmarks are powerful because they reflect the relevant in-groups’ shared and normative understandings made real in the world. Such a context affords objective social status, which is observable to others and reflects social consensus about the definition of success, a larger role in well-being than does an independent context.

## Study Overview

The present research aimed to be the first study to (1) compare the strength of the relationship between objective social status and well-being in the United States and Japan and (2) to compare the strength of the relationship between subjective social status and well-being in the United States and Japan.

**Table 1.** Descriptive Statistics and Mean Comparisons for the Japanese ( $N = 1,027$ ) and U.S. ( $N = 1,805$ ) Sample.

Variable	United States		Japan		Mean Comparisons	
	M	SD	M	SD	t	Significance
Age	56.9	12.6	54.4	14.1	4.69	***
Gender	0.55	0.50	0.51	0.50	n/a	*
Married	0.67	0.47	0.69	0.46	n/a	ns
Objective social status (educational attainment)	4.58	1.66	4.24	1.69	5.25	***
Subjective social status (ladder)	6.50	1.86	6.03	2.11	5.87	***
Life satisfaction	7.84	1.55	6.13	2.06	23.13	***
Positive affect	3.51	0.69	3.21	0.76	10.67	***
Autonomy	5.33	1.00	4.38	0.76	28.66	***
Environmental mastery	5.40	1.06	4.53	0.78	25.15	***
Personal growth	5.45	1.01	4.82	0.81	18.01	***
Positive relations	5.72	1.01	4.79	0.82	26.84	***
Purpose in life	5.44	1.02	4.54	0.72	27.39	***
Self-acceptance	5.41	1.18	4.40	0.81	26.6	***

Note. Japanese ( $N = 1,027$ ) and Americans ( $N = 1,805$ ). Two-tailed independent sample t-tests were used for mean comparisons.  $\chi^2$  tests were used to determine mean group differences, and the phi coefficient was used as a measure of association for gender ( $\chi^2 = 3.91$ ,  $p = .05$ ;  $\phi = .04$ ) and marital status ( $\chi^2 = 1.08$ ,  $p = .30$ ;  $\phi = .02$ ).

\*\*\* $p < .001$ .

Furthermore, as our outcome, we used multiple well-validated measures of well-being (Deci & Ryan, 2001; Ryff, 1989). These included measures that captured hedonic well-being (i.e., happiness, feeling good) and eudaimonic well-being (i.e., meaning, purpose, and fulfillment). We predicted that subjective social status would be more strongly linked with well-being in the United States than in Japan, whereas objective social status would be more strongly linked with well-being in Japan than in the United States. To test our hypothesis, we drew on representative survey data from the two nations.

## Method

### Samples

The U.S. data came from the second wave of the Midlife in the United States (MIDUS) national study conducted in 2004–2005 (75% longitudinal retention rate, adjusted for mortality). We used 1,805 adults (aged 34–84) from the random-digit-dialing sample (Radler & Ryff, 2010). This sample included noninstitutionalized, English-speaking adults randomly selected from working telephone banks in the 48 contiguous states. The Japanese sample Midlife in Japan (MIDJA) included 1,027 adults (aged 30–79) randomly selected from the Tokyo metropolitan area (23 wards) in 2008–2010 (response rate = 56.2%). Respondents completed self-administered questionnaires; the Japanese version was back-translated and adjusted multiple times by native speakers to generate analogous meaning. The samples were comparable in terms of age, gender, and marital status (see Table 1).

### Social Status

**Objective social status.** Objective social status was indexed by educational attainment level (1 = 8th grade/junior high; 2 =

some high school; 3 = high school graduate/GED; 4 = one of more years of college, no degree; 5 = two-year college degree/vocational school; 6 = four-/five-year college bachelor's degree; 7 = at least some graduate school). Educational attainment is the most frequently used index of socioeconomic status, as it is a precursor to occupation and income and is easily measured at the individual level (e.g., as opposed to total household income; Fiske & Markus, 2012; Lareau & Conley, 2008). Moreover, among the three most commonly used indicators of social class status (education, income, and occupation), education is the best predictor of a wide range of values and beliefs and is also the most closely associated with lifestyle, behavior, and psychological functioning (e.g., Attewell & Newman, 2010; Reardon, 2011; Snibbe & Markus, 2005).

**Subjective social status.** Subjective social status was measured using the community ladder (Adler & Stewart, 2007), a drawing of a 10-rung ladder with the instructions:

Think of this ladder as representing where people stand in their communities. People define community in different ways; please define it in whatever way is most meaningful to you. At the top of the ladder are the people who have the highest standing in their community. At the bottom are the people who have the lowest standing in their community. Where would you place yourself on this ladder? Please check the box next to the rung on the ladder where you think you stand at this time in your life, relative to other people in the community with which you most identify.

To ensure that the ladder assessed a similar construct in the two contexts, multiple rounds of translation and back-translation with native English and Japanese speakers made sure the word “community” was comparable in both nations. Further, we examined how subjective social status ratings correlated with

other measures in the MIDJA and MIDUS surveys. Across domains, the correlations in both nations were similar. The highest correlations (all  $ps < .01$ ) for both nations were with the generativity scale (e.g., Many people come to you for advice; Japan  $r = .44$ , United States  $r = .41$ ), the self-esteem scale (Japan  $r = .42$ , United States  $r = .43$ ), and a rating of satisfaction with one's current financial situation (Japan  $r = .40$ ; United States  $r = .30$ ).

### Well-Being

We indexed eight scales covering distinct forms of both hedonic well-being (i.e., life satisfaction and positive affect) and eudaimonic well-being (i.e., the six psychological well-being subscales; Deci & Ryan, 2001). Life satisfaction was a 1-item rating of current life satisfaction (0 = *worst possible*, 10 = *best possible*). The positive affect measure was based on the widely used positive and negative affect schedule (PANAS; Watson, Clark, & Carey, 1988), which also has been validated in Japan (Sato & Yasuda, 2001). Respondents rated the frequency (1 = *none of the time*, 5 = *all of the time*) of experiencing each of the following states during the previous 2 weeks: cheerful, in good spirits, extremely happy, calm and peaceful, satisfied, full of life, enthusiastic, attentive, proud, confident, active, full of life, close to others, and like you belong (Japan  $\alpha = .94$ ; United States  $\alpha = .94$ ).

The six psychological well-being subscales (Ryff, 1989) each represented the respective 7-item mean of responses to a 7-point Likert-type scale: autonomy (e.g., My decisions are not usually influenced by what everyone else is doing; Japan  $\alpha = .70$ , United States  $\alpha = .71$ ), environmental mastery (e.g., In general, I feel I am in charge of the situation in which I live; Japan  $\alpha = .73$ , United States  $\alpha = .78$ ), personal growth (e.g., For me, life has been a continuous process of learning, changing, and growth; Japan  $\alpha = .74$ , United States  $\alpha = .75$ ), positive relations with others (e.g., I know that I can trust my friends, and they know they can trust me; Japan  $\alpha = .76$ , United States  $\alpha = .78$ ), purpose in life (e.g., Some people wander aimlessly through life, but I am not one of them; Japan  $\alpha = .56$ , United States  $\alpha = .70$ ), and self-acceptance (e.g., When I look at the story of my life, I am pleased with how things have turned out; Japan  $\alpha = .78$ , United States  $\alpha = .84$ ). Finally, we created a composite well-being measure by averaging each participant's within-culture standardized scores on the eight well-being measures listed previously.

### Control Variables

Our analyses controlled for demographic variables (age, gender, and marital status) shown to predict well-being (e.g., Cleary, Zaborski, & Ayanian, 2004; Inaba et al., 2005). For all variables, higher numbers indicated more of a given construct. In addition, gender was coded as male = 0 and female = 1, and marital status as 0 = not married and 1 = married. Missing data were limited (<5% for each variable), so no further adjustments were made.

## Results

Two-tailed independent samples *t*-tests indicated that U.S. respondents scored higher than Japanese respondents on both status measures and on well-being measures (see Table 1). Bivariate correlations between status and well-being measures were nearly all significant. For the United States, objective social status correlated with all well-being variables except positive relations (range: .06–.25), and subjective social status correlated with all well-being variables (range: .32–.47),  $ps < .05$ . For Japan, objective social status correlated with all well-being variables except positive affect (range: .07–.24), and subjective social status correlated with all well-being variables (range: .26–.39),  $ps < .05$ . The results of the hierarchical regression analyses run separately within each culture are presented in Table 2.

To test our hypotheses, we used hierarchical linear regressions to explore cultural differences in the relative influence of objective and subjective social status in predicting well-being. Age, gender, and marital status were entered into the model in Step 1, followed by objective social status in Step 2, then subjective social status in Step 3 (following past precedent [e.g., Adler et al., 2000] to ensure its predictive influence was independent of objective social status), then culture (dummy-coded) and its interactions with both objective and subjective social status in Steps 4 and 5, respectively. To reduce multicollinearity, mean-centered objective and subjective social status scores were used to compute the two interaction terms (Cohen & Cohen, 1983; Cronbach, 1987). Separate regressions were conducted to predict the eight well-being outcomes (also standardized within-nation).

As hypothesized, subjective social status showed a robust pattern of stronger effects on well-being in the United States than Japan, while, in contrast, objective social status showed a robust pattern of stronger effects on well-being in Japan than in the United States. Specifically, the associations between subjective social status and the well-being outcomes that were stronger in the United States were those that predicted life satisfaction,  $b = -.08$ ,  $t(2,708) = -4.35$ ,  $p < .001$ ; positive affect,  $b = -.09$ ,  $t(2,716) = -4.94$ ,  $p < .001$ ; purpose in life,  $b = -.07$ ,  $t(2,721) = -3.99$ ,  $p < .001$ ; and self-acceptance,  $b = -.08$ ,  $t(2,722) = -4.35$ ,  $p < .001$ . Notably, on two additional measures the Subjective Social Status  $\times$  Culture interaction resulted in marginal statistical significance in the same direction: autonomy,  $b = -.03$ ,  $t(2,722) = -1.65$ ,  $p < .10$ , and personal growth,  $b = -.03$ ,  $t(2,722) = -1.74$ ,  $p < .09$ . Finally, the association between subjective social status and the well-being composite was significantly stronger in the United States than in Japan,  $b = -.09$ ,  $t(2,733) = -4.02$ ,  $p < .001$  (see Figure 1).

In contrast, the results of the objective social status analyses tended to show the opposite cultural pattern. The associations between objective social status and the well-being outcomes were significantly stronger in Japan than in the United States for life satisfaction,  $b = .09$ ,  $t(2,708) = 3.91$ ,  $p < .001$ ; positive relations,  $b = .09$ ,  $t(2,722) = 4.30$ ,

**Table 2.** Subjective Social Status Predicts Well-Being Beyond the Effects of Objective SES in the United States ( $N = 1,805$ , Panel A) and Japan ( $N = 1,027$ , Panel B).

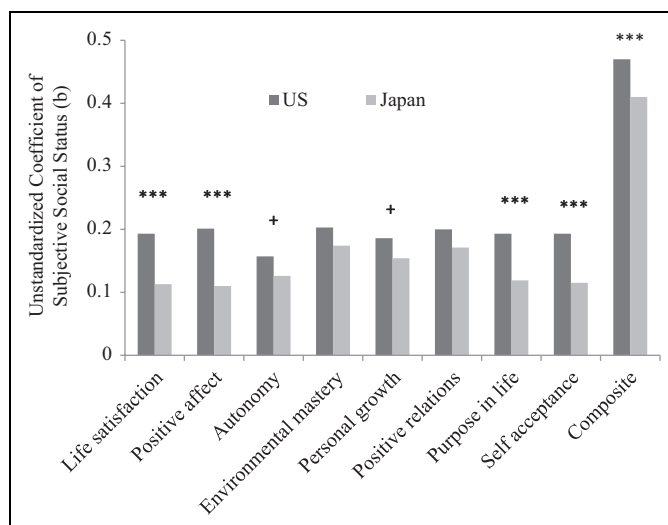
Panel A. United States						
	Objective Social Status			Subjective Social Status		
	<i>b</i>	<i>t</i>	Significance	<i>b</i>	<i>t</i>	Significance
Life satisfaction	0.01	0.89		0.19	15.92	***
Positive affect	0.02	1.10		0.20	16.47	***
Autonomy	0.01	0.92		0.16	17.89	***
Environmental mastery	0.05	4.06	***	0.20	16.98	***
Personal growth	0.11	8.37	***	0.19	15.45	***
Positive relations w/ others	0.00	-0.15		0.20	16.78	***
Purpose in life	0.07	4.84	***	0.19	15.71	***
Self-acceptance	0.24	17.60	***	0.19	15.71	***
Well-being composite	0.08	3.85	***	0.47	21.55	***

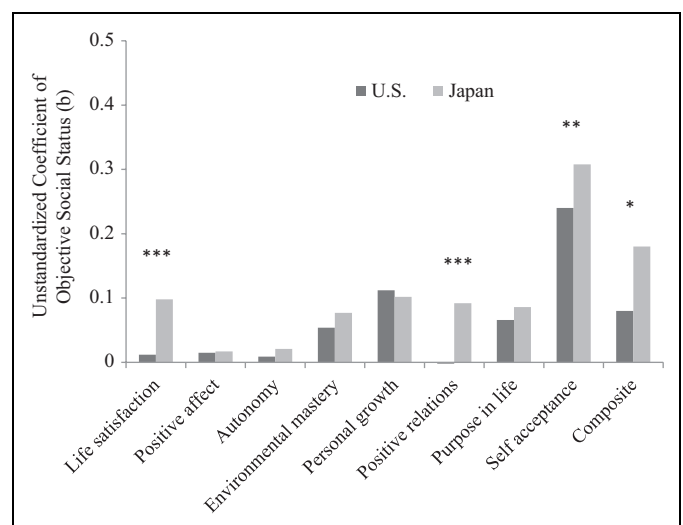
Panel B. Japan						
	Objective Social Status			Subjective Social Status		
	<i>b</i>	<i>t</i>	Significance	<i>b</i>	<i>t</i>	Significance
Life satisfaction	0.10	5.44	***	0.11	8.07	***
Positive affect	0.02	0.93		0.11	7.74	***
Autonomy	0.02	1.61		0.13	12.42	***
Environmental mastery	0.08	4.30	***	0.17	12.49	***
Personal growth	0.10	5.65	***	0.15	10.97	***
Positive relations w/others	0.09	5.15	***	0.17	12.31	***
Purpose in life	0.09	4.68	***	0.12	8.33	***
Self-acceptance	0.31	16.75	***	0.12	8.05	***
Well-being composite	0.18	5.95	***	0.41	14.45	***

Note. Unstandardized regression coefficients are presented. All analyses controlled for age, gender, and marital status. Degrees of freedom (*df*) were 2,722 except for life satisfaction (2,708), positive affect (2,716), and purpose in life (2,721).

\*\*\* $p < .001$ .



**Figure 1.** Subjective social status shows a robust pattern of stronger effects on psychological well-being in the United States ( $n = 1,805$ ) than Japan ( $n = 1,027$ ). Unstandardized coefficients are presented, controlling for age, gender, and marital status.  $+p < .10$ , \*\*\* $p < .001$ .



**Figure 2.** Objective social status shows a robust pattern of stronger effects on psychological well-being in Japan ( $n = 1,027$ ) than in the United States ( $n = 1,805$ ). Unstandardized coefficients are presented, controlling for age, gender, and marital status. \* $p < .05$ , \*\* $p < .01$ , \*\*\* $p < .001$ .

$p < .001$ ; and self-acceptance,  $b = .07, t(2,722) = 3.16, p < .01$ . In addition, the association between objective social status and the well-being composite was significantly stronger in Japan than in the United States,  $b = .05, t(2,733) = 2.34, p < .05$ .<sup>1</sup> For both objective social status and subjective social status, the nonsignificant culture interactions nearly always followed the hypothesized direction of effects (see Figure 2).<sup>2</sup>

## Discussion

We show that hierarchy matters for well-being in both the United States and Japan and break new ground by demonstrating that the strength of associations between different forms of hierarchy and well-being varies systematically by cultural context. While subjective social status significantly predicted both hedonic and eudaimonic outcomes in Japan and the United States, the strength of these associations was relatively stronger in the United States—significantly so for life satisfaction, positive affect, purpose in life, and self-acceptance. The reverse was true for objective social status, which predicted life satisfaction, positive relations with others, and self-acceptance significantly more strongly in Japan than in the United States.

Our findings are consistent with previous research suggesting that the beliefs and practices of U.S. culture sanction an independent model of the self in which one's own subjective judgments—rather than others' judgments—are the primary referent for the evaluation of self-worth and accomplishment (Markus & Kitayama, 2010). Eleanor Roosevelt's claim, "Nobody can make you feel inferior without your consent," succinctly expresses this widespread American sentiment.

The comparatively stronger role of objective social status in Japan relative to the United States supports past research indicating that the beliefs and practices of East Asian cultures, including Japan, foster an interdependent model of the self (i.e., objective factors such as one's degree or position in a company, etc.) are the primary referent for self-assessment and are salient in everyday social interactions (e.g., Leung and Cohen, 2011; Rai & Fiske, 2011). Relative to the United States, in Japan, one's own personal, possibly idiosyncratic, criteria for where the self stands in relation to others are relatively less central in self-evaluation.

Other recent evidence also suggests a differential emphasis on objective, externally observable factors in East Asia versus more subjective factors in the West (e.g., Kim et al., 2010; Wirtz & Scollon, 2012). For example, Park and colleagues (in press) found that anger expression is predicted by objective status in Japan, but by subjective status in the United States. The present study, paired with this past research, may help explain the relatively greater importance assigned to indices of position in various social hierarchies such as grades or admission to prestigious universities among people from Asian and Asian American contexts compared to those in matched northern American contexts (Chao & Tseng, 2002; Chua, 2011). In Asian and Asian American contexts, such objective status indicators are more tightly linked to well-being.

## Local Versus Global Status

Our measures of social status, the ladder and level of educational attainment, differ on multiple dimensions. We have focused on the distinction between objective and subjective markers of status. However, another notable characteristic of the ladder measure included here is that it captures *local* as opposed to *global* status (Anderson et al., 2012). Specifically, it asks people about their position within their local community rather than about their position compared to people in their country overall or to people in general. Questions about status relative to an important reference group are powerful predictors of well-being in East Asian as well as Western cultural contexts (Oshio, Nozaki, & Kobayashi, 2011). Although subjective markers of status are relatively more powerful in the United States, status within the local context tends to be relatively more important in Japan, where the boundary between in-group and out-group is a strong and significant division. Interdependence thus refers not to interdependence with people in general but specifically to interdependence with others in close relationships and important groups (Markus & Kitayama, 1991). The importance of the local community may explain why our ladder measure, which uses community as a referent, is a stronger predictor of well-being than education in Japan (as it is in the United States, as well). The fact that this measure captures local rather than global status may help it to predict well-being in both cultural contexts. Our data only included one ladder measure, but future research might compare the predictive power of global and local objective and subjective markers of status for well-being. Objective indices of local status should predict well-being more strongly than objective indices of global status or subjective indices of local status in Japan.

## Well-Being in Japan

The finding that objective social status predicted well-being more strongly in Japan than in the United States emerged most robustly on three well-being indices—positive relations with others, self-acceptance, and life satisfaction—that might be especially relevant in interdependent cultural contexts in which connection to others is a primary social goal (Oishi & Diener, 2001; Uchida, Norasakkunkit, & Kitayama, 2005). Positive relations explicitly implicate others, and self-acceptance is likely to rely heavily on others in interdependent cultural contexts in which cues from others are a primary referent for self-esteem and self-regard (e.g., Heine, Lehman, Markus, & Kitayama, 1999). Finally, Japanese ratings of life satisfaction, a broad construct that allows respondents to bring to mind whatever components of well-being are most relevant in their cultural contexts, are also likely to invoke social relationships.

## Limitations and Future Directions

Although laboratory experiments offer some evidence to support our implicit claim that social status affects well-being in the United States (e.g., Anderson et al., 2012; Mendelson,

Thurston, & Kubzansky, 2008), additional experimental work in Japan as well as longitudinal research in both cultures would further illuminate cultural differences (or similarities) in the causal direction and mechanisms underlying these findings. Future work might also include measures that would allow a more fine-grained measure of objective status (e.g., university attended) and explore the relationship between hierarchy and other types of well-being using other measures besides those available in the samples used here. These include varieties of well-being that are more prevalent in Japan, such as sympathy with others (Kitayama & Markus, 2000) or minimalist happiness (Kan, Karasawa, & Kitayama, 2009), as well as measures of mental illness.

### Implications and Conclusion

This study has important implications for efforts to improve psychological well-being. For example, in the United States, many popular methods in mental health counseling focus on teaching people to cognitively restructure or reappraise how they feel and think about themselves and their behavior. However, in contexts such as Japan where interdependent models of self are normative, mature people are expected to be aware of and behave in accordance with their place in various objective hierarchies. Changing how they view themselves without attending to the views of others may be decidedly less effective in improving mental health. Well-being interventions might focus instead on helping people raise their objective status through effort and concrete achievements or else on accepting and adjusting to their position in the social order (e.g., Weisz, Rothbaum, & Blackburn, 1984).

In summary, we conclude that both U.S. Americans and Japanese make social comparisons that affect their well-being, but the criteria for such comparisons tend to be more external in Japan and more internal in the United States. While hierarchies may be a universal feature of human life, our findings suggest that how they are determined and maintained and how they relate to well-being is culturally contingent.

(MIDJA) for comparative analysis with MIDUS (Midlife in the United States, P01-AG020166).

### Notes

1. We operationalized objective social status as level of educational attainment (see methods). However, operationalizing it as a composite of level of educational attainment and occupational status (three levels: manual/blue collar/service, non-manual/white collar/clerical, and managerial/professional) yields the same set of significant results, except that objective social status no longer predicts self-acceptance more strongly in Japan than in the United States.
2. Our primary interest was in the relative role of subjective and objective status across cultures (i.e., the extent to which subjective social status predicted well-being in the United States relative to Japan and the extent to which objective social status predicted well-being in the United States relative to Japan). However, it should also be noted that across cultures, subjective social status predicted well-being more strongly than objective social status. Specifically, using the well-being composite as an outcome measure, the Subjective Social Status  $\times$  Objective Social Status interaction is significant,  $b = .01$ ,  $t(2,724) = 2.24$ ,  $p < .05$ . The Culture  $\times$  Subjective Social Status  $\times$  Objective Social Status is not significant,  $b = -.002$ ,  $t(2,723) = -.25$ ,  $p = .81$ , indicating that the relatively stronger role of subjective social status in predicting well-being is not moderated by culture. Importantly, the critical two-way interactions (i.e., Culture  $\times$  Subjective Social Status, Culture  $\times$  Objective Social Status) remain significant even when the Subjective Social Status  $\times$  Objective Social Status interaction is taken into account.

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