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# Personal Life Satisfaction as a Measure of Societal Happiness is an Individualistic Presumption: Evidence from Fifty Countries

Kuba Kryś, et al. [*full author details at the end of the article*]

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## Abstract

Numerous studies document that societal happiness is correlated with individualism, but the nature of this phenomenon remains understudied. In the current paper, we address this gap and test the reasoning that individualism correlates with societal happiness because the most common measure of societal happiness (i.e., country-level aggregates of personal life satisfaction) is individualism-themed. With the data collected from 13,009 participants across fifty countries, we compare associations of four types of happiness (out of which three are more collectivism-themed than personal life satisfaction) with two different measures of individualism. We replicated previous findings by demonstrating that societal happiness measured as country-level aggregate of personal life satisfaction is correlated with individualism. Importantly though, we also found that the country-level aggregates of the collectivism-themed measures of happiness do not tend to be significantly correlated with individualism. Implications for happiness studies and for policy makers are signaled.

**Keywords** Family happiness · Interdependent happiness · Life satisfaction · Self-construals · Individualism · Collectivism · Well-being · Culture

## 1 Introduction

Many studies have demonstrated that societal happiness, measured as country-level average of personal life satisfaction, correlates with national levels of individualism (Diener et al. 1995; Hofstede 2001; Kryś et al. 2019b; Steel et al. 2018). However, the nature of this association remains understudied. The purpose of this study is to explore details of this association as proposed by Kryś et al. (2019c), viz., that the reason why individualism is associated with societal happiness is that the most common measure of societal happiness (i.e., personal life satisfaction) is individualism-themed. To do so, we measured more collectivism-themed types of happiness (e.g., family interdependent happiness) across fifty countries, and demonstrate that some of these more collectivism-themed types of societal happiness are not predicted by individualism, but by other features of national culture. In

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doing so, this study extends the current discussion on potential antecedents of societal happiness by showing that individualism is a pathway to one type of happiness only; there are other cultural pathways to other types of happiness.

## 2 Societal Happiness and Individualism

Numerous large cross-country studies have documented that societal happiness is predicted by individualism—above and beyond other social, economic and cultural factors characterizing societies (Diener et al. 1995; Hofstede 2001; Kryś et al. 2019b; Kuppens et al. 2008; Jasielska et al. 2018). These consistent findings led Oyserman et al. (2002) to conclude that “individualism may increase well-being” (p.42). More recently Kryś et al. (2019b) described the mechanism that may be responsible for the causality proposed by Oyserman and collaborators. They showed that individualism promotes societal happiness if it adopts the form of *the open society*. Four attitude orientations constituting open society: (1) tolerance, (2) trust, (3) civic engagement, and (4) non-materialism tend to benefit society as a whole, but do not directly and substantially promote individual satisfaction. Individuals endorsing open society attitudes are not considerably more satisfied than prejudiced, suspicious, uninvolved, and materialistic members of the same society, but societies in which open society attitudes are prevalent report greater happiness than closed societies.

Much of the evidence linking individualism with societal happiness (Diener et al. 1995; Hofstede 2001; Kryś et al. 2019b; Kuppens et al. 2008; cf. Steel et al. 2018) is based on country-level averages of personal life satisfaction ratings from a society’s members, proposed by Diener et al. (1985). This kind of finding begs the question of whether other types of happiness, aggregated to societal level, are also correlated with individualism. In particular, it is important to learn whether the more collectivism-themed types of happiness are associated with societal individualism.

## 3 Collectivism-Themed Types of Happiness

Happiness is not a single-faceted phenomenon. Within and across cultures people conceptualize happiness differently (Delle Fave et al. 2016; Kryś et al. 2019a, b; Kwan et al. 1997; Uchida and Kitayama 2009). Life satisfaction (Diener et al. 1985), for instance, originates from the so-called WEIRD academic tradition (Heinrich et al. 2010), and became the most popular conceptualization of happiness in psychological research (as of 2020, according to Scopus database, the Diener et al. 1985 paper has been cited over 10,000 times, which makes it one of the most influential papers in psychological science). Recent cross-cultural studies of well-being have introduced the concept of interdependent happiness (Hitokoto and Uchida 2015) as a more relationship-oriented view of happiness—emphasizing harmony with others, quiescence, and ordinariness. Interdependent happiness is supposed to be a prioritized goal for Confucian Asian cultural systems in particular, but in general is theorized to be pursued by people in other forms of collectivistic cultures as well (Mathews and Izquierdo 2008). Life satisfaction and interdependent happiness are partly overlapping (Kryś et al. 2019c)—all types of happiness probably share a common core, but emphasize different aspects of happiness: interdependent happiness is more relationship-oriented and life satisfaction tends to be more achievement-oriented. Indeed, Uchida and Ogiwara’s (2012) early review of literatures on cultural construals of happiness suggested that the

common measures of happiness (e.g., Diener et al.'s life satisfaction) are based on European-American ideas of happiness that focus on personal achievement and attainment, which are less emphasized in collectivistic cultures (Lu and Gilmour 2006; Oishi 2010).

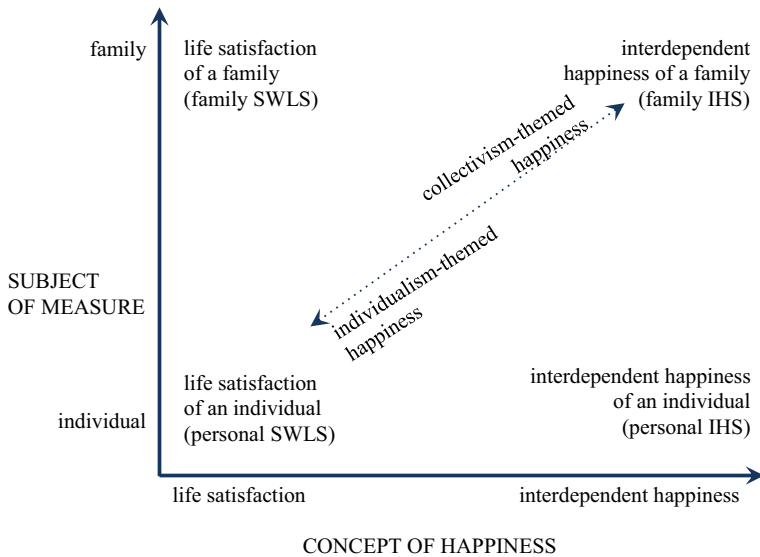
Another step towards understanding collectivism-themed types of happiness was made by Krys and collaborators (2019a, c). Krys and his collaborators have reported that the "basic unit of survival" differentiates individualism from collectivism—for individualism, it is individual person; in collectivism, it is a group (Hui and Triandis 1986). Thus, they proposed that one of the reasons why country-level aggregates of happiness appear to be correlated with cultural individualism is the fact that common measures of happiness focus on the individual person, the typical target of interest in research conducted in individualistic cultures (Sampson 1981). In order to lend initial support to their thesis, Krys et al. (2019c) carried out a study across twelve countries and found that *family* interdependent happiness is not significantly associated with individualistic cultures. Family interdependent happiness refers to the collective happiness of one's family and the extent to which one's family is in harmony with other families and groups in one's community. Whereas interdependent happiness makes individuals the central evaluators of happiness of themselves and those around them, in family interdependent happiness families' happiness is the target of interest. In the current paper we expand the Krys et al. (2019c) study to fifty countries.

From the outset, it is important to note the distinction between moderating roles of culture on people's life evaluation as suggested in the literature and measurement issues the current study raises a question about. A previous study showed that people from collectivistic cultures are more influenced by social norms when evaluating their personal life satisfaction than those from individualistic cultures (Suh et al. 1998). On the other hand, our study focuses on a more basic matter about the way measures are constructed (i.e., where the items focus when asking individuals about their life).

## 4 Reasoning Behind the Present Study

In the current study we test whether the association between happiness and individualism generalizes from personal life satisfaction to more collectivism-themed types of happiness. As with Krys et al. (2019c), we analyze four different types of happiness (see Fig. 1) emerging from combining two concepts of happiness (life satisfaction vs. interdependent happiness) with two targets of happiness (personal happiness vs. family happiness). This approach provides the opportunity to compare individualism-themed happiness (i.e., personal life satisfaction) with collectivism-themed happiness (e.g., interdependent happiness of family).

As with Krys et al. (2019c), we used the country-level aggregates of self-construals as a differentiated measure of individualistic-collectivistic cultural context. Self-construal theory (Markus and Kitayama 1991) proposed that culture-level phenomenon of individualism and collectivism can be "translated" into individual-level phenomenon of independent and interdependent self-construals, respectively. Measures of independent versus interdependent self-construals and individualism versus collectivism have often been treated as interchangeable (e.g., Effron et al. 2018; Oyserman et al. 2002). Accordingly, Krys, Zelenski and collaborators relied on Singelis' (1994) scale to measure independent and interdependent self-construals, but here we turned to the more differentiated scale of self-construals proposed by Vignoles et al. (2016).



**Fig. 1** Four types of happiness (and in brackets their measures). The vertical axis differentiates the subject of happiness (an individual person vs. a family). The horizontal axis differentiates the concept of happiness (life satisfaction vs. interdependent happiness)

Vignoles et al. (2016) distinguished seven domains of self-construals that were previously confounded within commonly used measures of independence and interdependence, such as Singelis' (1994) scale. According to the findings of Vignoles and collaborators, selves may be construed in terms of distinguishing the self (i.e., difference vs. similarity), experiencing the self (i.e., self-containment vs. connection to others), making decisions (i.e., self-direction vs. receptiveness to influence), looking after oneself (i.e., self-reliance vs. dependence on others), moving between contexts (i.e., consistency vs. variability), communicating with others (i.e., self-expression vs. harmony), or dealing with conflicting interests (i.e., self-interest vs. commitment to others). Recently, Vignoles (personal communication) proposed to add another aspect of defining the self: importance of context (i.e., decontextualized vs. contextualized self). Thus, in our study we check how each of these eight dimensions of self-construal—seven from Vignoles et al. (2016) original study and one additional recently proposed by Vignoles—correlates with each of four types of happiness.

After the launch of data collection, we learned that country-level aggregates of self-construals are not proxies of individualism-collectivism. Self-construal theory was built on the comparison of Confucian collectivism with North-American and Western-European individualism, and was commonly assumed to be valid for all types of collectivism. However, empirical evidence for self-construal theory hardly reaches beyond the two cultural macro-groups of this theory's origin. In contrast, several large cross-cultural comparisons have documented that Latin Americans—members of template collectivistic cultures—describe their selfhoods as predominantly independent (Church et al. 2012; Kryś et al. 2019c; Vignoles et al. 2016). This finding can be explained based on several different cultural characteristics [e.g., cultures of honor (Nisbett and Cohen 1996), endorsement of the maximization principle (Hornsey et al. 2018), or relational mobility (Thomson et al. 2018)]. Thus, in order to avoid potential pitfalls arising from inadequacy of using self-construals as

a proxy of individualism-collectivism, in the present study we also included external measures of individualism-collectivism (Hofstede 2001; Minkov et al. 2017; Schwartz 2008).

Thus, the current study aimed to replicate and extend the results provided by Kryś et al. (2019c). The substantial improvement in comparison to the original Kryś, Zelenski et al. study comes from the increased complexity of the study presented here. First, we covered fifty countries, whereas Kryś, Zelenski et al. collected data across twelve countries 'only'. The large number of countries in the current study lessens the impact of potential bias arising from the limited number of countries in the previous research; the current analyses are based on completely new data as compared to Kryś, Zelenski et al. original study, although all 12 countries from the original study were also covered by the current research project. Second, to study self-construals we employed a measure of high psychometric quality, providing a much more fine-grained picture on self-construals than the original Kryś, Zelenski et al. study (i.e., Vignoles et al. vs. Singelis self-construal scales, respectively). Thus, with the current study, several important doubts arising from the original Kryś, Zelenski et al. research may be resolved, and their conclusions, if confirmed, may be strengthened.

## 5 Method

The current study, was part of a larger cross-cultural investigation of the cultural factors related to happiness<sup>1</sup> (e.g., societal emotional environment, family happiness, and the valuation of different types of happiness). In the current paper, we focus on levels of four types of happiness and on eight dimensions of self-construal.

### 5.1 Participants and Countries

At the time of writing, our data set contained 13,009 participants from 50 countries: Argentina, Austria, Australia, Brazil, Bhutan, Bulgaria, Canada, Chile, China, Colombia, Croatia, Czech Republic, El Salvador, Estonia, France, Georgia, Germany, Ghana, Greece, Guatemala, Hong Kong, Hungary, Iceland, Indonesia, Iran, Ireland, Italy, Japan, Korea, Lithuania, Luxembourg, Malaysia, Mexico, the Netherlands, Nigeria, Norway, Pakistan, Poland, Portugal, Romania, Russia, Saudi Arabia, Serbia, Slovakia, Switzerland, Taiwan, Turkey, UK, Ukraine, and USA.

We aimed to recruit 200 individuals in each country. Some authors, however, collected more and others collected fewer. Overall, 59.6% of participants identified as female, 39.3% as male, 0.4% as other, and 0.7% left the question about gender blank; the mean age of participants was 25.18 years ( $SD=9.51$ ). We mainly collected samples of post-secondary students, but some authors managed to complement their student sample with a general population sample. Supplementary online material contains demographic characteristics by country, means and standard deviations of analyzed variables, as well as items and reliabilities of the scales used in this study.

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<sup>1</sup> The study was approved by the research ethics committee of the Institute of Psychology of the Polish Academy of Science (approval #7/11/2017). Additionally, in each country where local regulations require separate ERB approval, local teams obtained such approvals.

## 5.2 Materials and Procedure

### 5.2.1 Levels of Four Types of Happiness: Own Data

We used the Satisfaction with Life Scale (personal SWLS; 5 items; Diener et al. 1985; e.g., *You are satisfied with your life*;  $\alpha = .85$  for the whole sample, in every country  $\alpha > .70$ ) to measure actual personal life satisfaction. The Interdependent Happiness Scale (personal IHS; 9 items; Hitokoto and Uchida 2015; e.g., *You can do what you want without causing problems for other people*;  $\alpha = .87$  for the whole sample, in every country  $\alpha > .74$ ) was used to measure the actual personal interdependent happiness. As in Kryś and collaborators (Kryś et al. 2019a, c), we also adapted both measures to assess participants' views of their family's happiness by changing the subject of the personal SWLS and personal IHS measures from the individual to their family (e.g., *Your family is satisfied with its life* for family SWLS;  $\alpha = .90$  for the whole sample, in every country  $\alpha > .79$ , and *As a family you can do what you want without causing problems for other people* for family IHS;  $\alpha = .91$  for the whole sample, in every country  $\alpha > .87$ ). See supplementary online material for a full list of the original and modified SWLS and IHS items. Following Vignoles et al.'s (2016) approach, participants rated items of happiness and self-construal scales (see below) on a nine-point Likert-type scale with five labelled points: 1 (*doesn't describe me at all*), 3 (*describes me a little*), 5 (*describes me moderately*), 7 (*describes me very well*), 9 (*describes me exactly*).

### 5.2.2 Self-construals as Markers of Individualistic-Collectivistic Context: Own Data

As a proxy of individualism-collectivism, we used the latest upgraded version of the Vignoles et al. (2016) self-construal scales. Originally, this scale contained seven dimensions: difference vs. similarity (6 items; e.g., *You like being different from other people* vs. *You like being similar to other people*;  $\alpha = .76$  for the whole sample, in each country apart from Indonesia<sup>2</sup>  $\alpha > .58$ ), self-containment vs. connectedness to others (6 items; e.g., *You would not feel personally insulted if someone insulted a member of your family* vs. *If someone insults a member of your family, you feel as if you have been insulted personally*;  $\alpha = .72$  for the whole sample, in forty-five countries<sup>2</sup>  $\alpha > .60$ ), self-direction vs. receptiveness to influence (6 items; e.g., *You usually decide on your own actions, rather than follow others' expectations* vs. *You usually do what people expect of you, rather than decide for yourself what to do*;  $\alpha = .76$  for the whole sample, in every country<sup>2</sup>  $\alpha > .55$ ), self-reliance vs. dependence on others (6 items; e.g., *You try to avoid being reliant on others* vs. *Being able to depend on others is very important to you*;  $\alpha = .78$  for the whole sample, in every country<sup>2</sup>  $\alpha > .53$ ), consistency vs. variability (6 items; e.g., *You behave in a similar way at home and in public* vs. *You behave differently when you are with different people*;  $\alpha = .84$  for the whole sample, in every country<sup>2</sup>  $\alpha > .66$ ), self-expression vs. harmony (6 items; e.g., *You like to discuss your own ideas, even if it might sometimes upset the people around you* vs. *You try to adapt to people around you, even if it means hiding your feelings*;  $\alpha = .76$  for

<sup>2</sup> In the Indonesian sample, we found problematic reliabilities for every self-construal dimension. Therefore, Indonesian data are excluded from further analysis based on self-construal scales, and also are not covered by further information on reliabilities in the current section (i.e., for each further information on self-construal scale's reliability the text should read "...in each country apart from Indonesia..."). For full set of reliabilities, including those in Indonesia, please see supplementary online material.

the whole sample, in every country<sup>2</sup>  $\alpha > .55$ ), and self-interest vs. commitment to others (6 items; e.g., *You protect your own interests, even if it might sometimes disrupt your family relationships* vs. *You usually give priority to others, before yourself*;  $\alpha = .69$  for the whole sample, in every country<sup>2</sup>  $\alpha > .49$ ). The upgraded version of the Vignoles scale included one additional dimension obtained from the first author of the scale (Vignoles, personal communication): de-contextualized vs. contextualized self (6 items; e.g., *Someone could understand who you are without needing to know which social groups you belong to* vs. *If someone wants to understand who you are, they would need to know which social groups you belong to*;  $\alpha = .74$  for the whole sample, in every country<sup>2</sup> apart from Saudi Arabia  $\alpha > .54$ ). For full tables with reliabilities, please see supplementary material.

### 5.2.3 Individualism-Collectivism Meta-Factor: External Data

During data collection we learned that self-construals are not an ideal proxy of individualism-collectivism. Therefore in the analysis we also included an individualism-collectivism meta-factor extracted from individualism-collectivism measures offered by Hofstede (2001) and Minkov et al. (2017), and from autonomy-embeddedness measures that are reflecting individualism-collectivism in the value taxonomy of cultures offered by Schwartz (2008). We calculated an individualism-collectivism meta-factor by averaging standardized scores for each of these three datasets ( $\alpha > .86$ ).

## 5.3 Analytic Approach

We used two complementary analytic approaches: country-level correlational analysis and multilevel modelling (MLM). These two approaches employ different dependent variables; country-level happiness for correlational analysis and individual-level happiness for MLM analysis. The purpose of this study is to study country-level associations between happiness and individualism; thus, we describe correlational analysis as the main analytic tool, and MLM as an additional analytic tool.

For the predicted variables, we analyzed the four types of happiness (i.e., personal SWLS, personal IHS, family SWLS, and family IHS). For predicting variables, we used eight dimensions of self-construals, and additionally, the individualism-collectivism meta-factor. When comparing country-level correlation coefficients, we employed the test of the difference between two dependent correlations with one variable in common (Steiger 1980).

In two-level analyses, self-construals served as individual-level predictors (this way we studied the influence of individual mindset on happiness), and country-level aggregates of self-construals served as country-level predictors (this way we studied the influence of cultural context on happiness). Furthermore, we controlled for cross-level interactions between individual mindset and cultural context, and for gender, age and social capital of participants (i.e., education of their parents) at the individual-level of analyses, and for GDP per capita at the country-level of analyses.

We employed in our analyses eight different dimensions of self-construal as predicting variables, and four different types of happiness as predicted variables. Thus, in total, we carried out thirty-two, different two-level analyses; each model with cross-level interactions and with random intercepts and slopes. For the more detailed description of our approach to two-level analyses (e.g., regarding centering decisions), please see the supplementary material.

## 6 Results

### 6.1 Correlational Analyses

#### 6.1.1 Four Types of Happiness and Self-Construals

We present a summary of the country-level correlational results in Table 1. In line with previous studies on the relationship between individualism and societal happiness, personal SWLS was positively correlated with four facets of individualistic self-construals: self-expression, decontextualized self, self-direction and consistency (all  $ps < .003$ ). Importantly, as predicted the association between societal happiness and these four individualistic contexts was attenuated when more collectivism-themed types of happiness were analyzed. For each of the four dimensions, the correlations with individualistic context were statistically higher for personal SWLS (the most individualism-themed measure of happiness) than for family IHS (the most collectivism-themed measures of happiness),  $z_s > 2.09$ ,  $ps < .037$ . In fact, family IHS did not significantly correlate with three of the four analyzed individualistic contexts, and in the case of decontextualized self the correlation was on the level of statistical trend only ( $p = .054$ ).

In the case of the four other individualistic contexts of self-construals—self-reliance, difference, self-containment, and self-interest—their correlations with personal SWLS were not significant, nor were they significantly correlated with the other types of happiness.<sup>3</sup> When we compared the strength of these correlations, we found the pattern where personal SWLS was closer to individualistic context than family IHS (see subscripts in Table 1).

#### 6.1.2 Four Types of Happiness and the Individualism-Collectivism Meta-Factor

As in numerous previous studies, we found a significant correlation between the individualism-collectivism meta-factor and country-level happiness measured as averaged personal SWLS,  $r(46) = .32$ ,  $p = .026$ . However, correlations of the individualism-collectivism meta-factor with societal happiness measured as aggregates of other types of happiness did not reach statistical significance:  $r(46) = .24$ ,  $p = .11$  for personal IHS,  $r(46) = .10$ ,  $p = .49$  for family SWLS, and  $r(46) = .06$ ,  $p = .69$  for family IHS. Figure 2 presents a visual illustration of our findings. The direct comparison between correlation coefficients revealed significant differences for the personal SWLS and family IHS comparison ( $z = 2.24$ ,  $p = .025$ ), for the personal IHS and family IHS comparison ( $z = 1.97$ ,  $p = .049$ ), and for the personal SWLS and family SWLS comparison ( $z = 2.42$ ,  $p = .016$ ); other  $z_s < 1.36$  and  $ps > .17$ .

### 6.2 Two-Level Analyses

For the MLM analyses, we employed the eight different dimensions of self-construals as predictor variables and four types of happiness as dependent variables (see supplementary online material, for the results of all thirty-two models). These analyses were generally

<sup>3</sup> Apart from statistical tendency ( $p = .054$ ) in the correlation between family SWLS and commitment, which was the only close to significant positive association between collectivistic context and societal happiness.

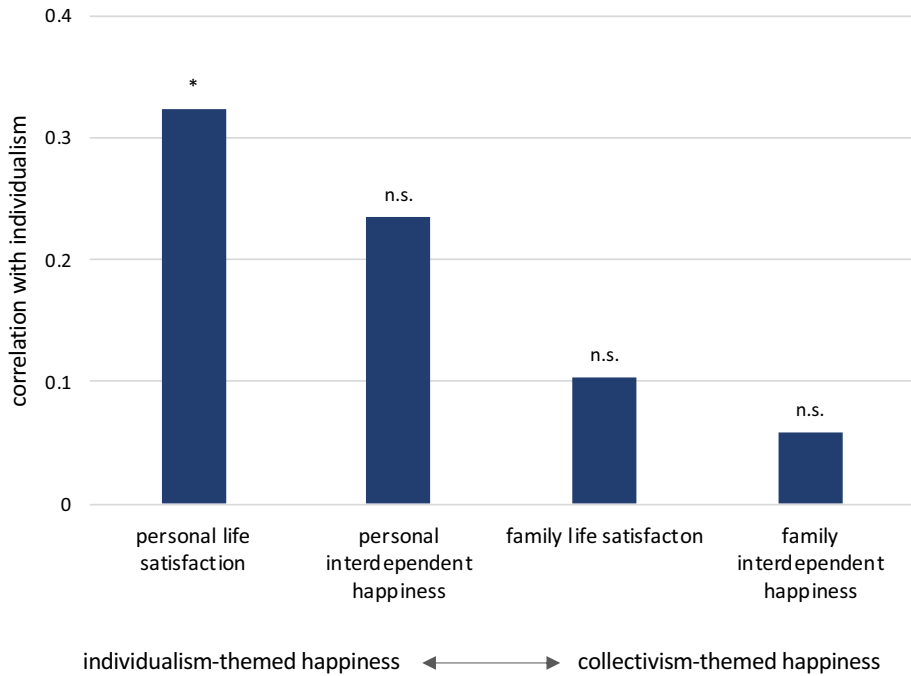
**Table 1** Country-level associations between four types of happiness and cultural contexts constituted by eight types of selfhoods

	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
<i>Happiness measures</i>											
(1) personal SWLS	.88***	.81***	.67***	.49*** <sup>a</sup>	.50*** <sup>a</sup>	.42*** <sup>a</sup>	.43*** <sup>a</sup>	.18 <sup>a</sup>	.09 <sup>a</sup>	.04 <sup>a</sup>	-.16 <sup>d</sup>
(2) personal IHS#	-	.78***	.82***	.27 <sup>+b</sup>	.45*** <sup>ab</sup>	.30*** <sup>a</sup>	.31*** <sup>ab</sup>	.17 <sup>a</sup>	.01 <sup>a</sup>	-.09 <sup>abc</sup>	-.14 <sup>d</sup>
(3) family SWLS#	-	-	.86***	.06 <sup>c</sup>	.27 <sup>+bc</sup>	.06 <sup>b</sup>	.20 <sup>b</sup>	-.13 <sup>b</sup>	.03 <sup>a</sup>	-.07 <sup>ab</sup>	-.26 <sup>+a</sup>
(4) family IHS	-	-	-	.04 <sup>c</sup>	.28 <sup>+c</sup>	.05 <sup>b</sup>	.00 <sup>c</sup>	-.04 <sup>b</sup>	-.01 <sup>a</sup>	-.22 <sup>c</sup>	-.16 <sup>d</sup>
<i>Cultural context</i>											
(5) Self-expression (vs. harmony)	-	-	-	-	.51***	.80***	.52***	.45***	.32*	.05	.24
(6) Decontextualized self (vs. contextualized)	-	-	-	-	-	.54***	.53***	.33*	.29*	-.02	.16
(7) Self-direction (vs. reception to influence)	-	-	-	-	-	-	.53***	.55***	.47***	.16	.33*
(8) Consistency (vs. variability)	-	-	-	-	-	-	-	.23	.41**	.20	.21
(9) Self-reliance (vs. dependence on others)	-	-	-	-	-	-	-	-	.37**	-.34*	.14
(10) difference (vs. similarity)	-	-	-	-	-	-	-	-	-	-.13	.35*
(11) Self-containment (vs. connectedness)	-	-	-	-	-	-	-	-	-	-	.33*
(12) Self-interest (vs. commitment)	-	-	-	-	-	-	-	-	-	-	-

*N* = 50 countries; subscripts that differ within columns indicate that the association of a given self-construal with one type of happiness is significantly different from its association with another type of happiness (*p* < .05). Calculations were based on the test of the difference between two dependent correlations with one variable in common (Steiger 1980). All *ps* are two-tailed

#Whereas personal SWLS is the most individualism-themed measure of happiness and family IHS is the most collectivism-themed measure of happiness out of the four types of well-being we examined, family SWLS and personal IHS can be regarded as sharing qualities of both contexts. Therefore, the arrangement of these two intermediate types of well-being is arbitrary and could be reversed

+ *p* < .10. \* *p* < .05. \*\* *p* < .01. \*\*\* *p* < .001



**Fig. 2** Correlation coefficients for individualism meta-factor and four types of happiness. *Note.* Whereas personal life satisfaction is the most individualism-themed measure of happiness and family interdependent happiness is the most collectivism-themed measure of happiness out of the four types of happiness we examined, family life satisfaction and personal interdependent happiness can be regarded as sharing qualities of both cultural contexts. Therefore, the arrangement of these two intermediate types of happiness is arbitrary and could be reversed. \* $p < .05$ ; n.s. (not significant) means  $p > .10$

consistent with the results of our main correlational analyses: culture-level aggregates of the four types of individualistic self-construals (i.e., self-expression, decontextualized self, self-direction and consistency) predicted personal life satisfaction ( $.005 < ps < .040$ ), and not a single culture-level aggregate of individualistic self-construals significantly predicted family interdependent happiness ( $ps > .39$ ).

## 7 Discussion

In this study, we sought to test whether four types of societal happiness can be predicted by societal individualism. We did so by collecting data across fifty different countries on four types of happiness—personal life satisfaction, personal interdependent happiness, family life satisfaction, and family interdependent happiness (for their taxonomy, see Fig. 1)—and then correlating them with two types of individualism measures: one based on dimensions of self-construals, and the other on external scores from Hofstede (2001), Minkov et al. (2017) and Schwartz (2008) that we aggregated into an individualism-collectivism meta-factor. Across both approaches, we replicated previous findings showing that societal happiness measured as country-level aggregate of personal life satisfaction was correlated with individualism. Importantly, both approaches also revealed that the country-level aggregates

of the most collectivism-themed type of happiness (i.e., family interdependent happiness) was not significantly correlated with individualism.

This finding lends support to Kryś et al. (2019c) reasoning that previous studies have found associations between individualism and societal happiness because they relied on an individualism-themed measure of happiness. In particular, personal life satisfaction focuses on the individual person as the subject of the measure and it is based on the concept of happiness that originated in so-called WEIRD societies (i.e., life satisfaction). In contrast, interdependent happiness is a concept of happiness that originated from studies in Confucian cultural contexts and is theorized to be pursued by collectivists everywhere. Given that the “basic unit of survival” in collectivistic cultures is a group (and not an individual; Hui and Triandis 1986), the pursuit of family happiness may be a relatively more important ideal than the pursuit of personal happiness (Kryś et al. 2019a). Taken together, our findings show that the association between individualism and societal happiness, even if causal (Kryś et al. 2019b; Oyserman et al. 2002), may be limited to an individualism-themed concept of happiness.

Interestingly, similar to Kryś et al. (2019c), we did not find a significant positive correlation between collectivism and the most collectivism-themed measure of societal happiness (i.e., country-level aggregate of family interdependent happiness). In searching for the explanation to this finding, we propose to turn to cross-cultural variability in the valuation of happiness. The ideal level of happiness does not have to be the same across cultures—in some cultures, people may wish to maximize their happiness, whereas in others people may be content with moderate levels of happiness. Although cross-cultural studies on ideal levels of happiness are rare (cf. Hornsey et al. 2018), Diener signaled that people in individualistic cultures tend to grant happiness greater importance than do respondents in collectivistic cultures (Diener 2000; see p. 34). If so, in collectivistic cultures the collectivism-themed type of happiness may be pursued relatively more than the individualism-themed type of happiness, and at the same time happiness in general (in all its types) may be pursued less in collectivistic cultures than in individualistic cultures. These two cultural tendencies may result in the reported lack of positive correlation between collectivism-themed happiness and collectivism. Cross-cultural studies on the valuation of happiness are needed to test this proposed explanation. Furthermore, cross-cultural studies on the valuation of various types of well-being (i.e., not only happiness) are needed to better understand what serves as the “ultimate” type of well-being for collectivistic cultures.

Finally, it may be interesting (and novel in comparison to the Kryś et al. 2019c study) that only four dimensions of self-construal were associated with individualism-themed types of societal happiness: self-expression, decontextualized self, self-direction, and consistency. Four other self-construal dimensions—self-interest, self-containment, self-reliance, and difference—turned out to not be correlated with individualism-themed societal happiness. To guide future research on this topic, we propose two possible post hoc explanations. First, further studies may test whether these four dimensions of self-construals are (un)reliable proxies of individualism-collectivism. Vignoles with collaborators already signaled that two of the four dimensions we indicated as not being associated with societal happiness were not related to individualism (self-reliance and self-interest; see Table 9 in Vignoles et al. 2016). This inconsistency might reinvigorate the discussion on what is individualism, and its consequences for societal well-being. Second, it may turn out that these four contexts of individualism-collectivism are not, in fact, associated with individualistic-themed societal happiness. The latter explanation would signal that not all facets of individualism are related to societal happiness and thus would bring a novel perspective on the association between individualism and societal happiness.

## 8 Implications for Well-Being Studies

Recent research on happiness has documented a variety of lay understandings of this concept across cultures (Delle Fave et al. 2016; Uchida and Kitayama 2009). The vast majority of this research is based on measures primarily designed to assess personal life satisfaction (e.g., Letki et al. 2019). Personal life satisfaction, although recognized across many cultures, may not be the sole motive and ultimate aim of human behavior—there may be other types of happiness that people may be driven to pursue more (as well as other types of well-being than happiness). For example, Kryś et al. (2019a) showed that people value family happiness over personal happiness. Similarly, Hitokoto and Uchida (2015) theorized that in Confucian Asia people pursue interdependent happiness more than life satisfaction. All of this supports the conclusion that the inclusion of other measures of happiness will help advance toward a more culturally objective understanding of human happiness. Even if all concepts of happiness are overlapping and reinforce each other (which seems reasonable because they all may share a common core), it does not necessarily mean that they all share the same qualities. Here, we document that at the country-level of analysis individualism-themed and collectivism-themed types of happiness are differently correlated with individualism. Thus, more studies on antecedents and correlates of *various* types happiness are needed.

With our findings, we also provoke questions on the cross-cultural valuation of happiness and other types of well-being. Whereas it seems plausible that the vast majority of people across all cultures prefer being happy over being unhappy, the ideal level of happiness, from the cross-cultural perspective, remains unclear (Hornsey et al. 2018; Diener 2000; Kryś et al. 2019a). In some cultures, people may wish to maximize their happiness, whereas in others moderate levels of happiness can be regarded as “good enough”. By documenting the cultural nature of various types of happiness, we also provoke the question on whether well-being is tantamount to happiness (cf. Delle Fave et al. 2016). From the perspective of cross-cultural psychology, it seems plausible that people across cultures may idealize various types of well-being (e.g., happiness, meaning, spirituality, harmony) to various extents. Empirical cross-cultural research on ideal levels of various types of well-being seems to be a promising avenue for well-being studies.

## 9 Implications for Policy Makers

Several recent discussions have opened up people’s minds to alternatives to GDP *per capita* as the primary measure of societal development (Stiglitz et al. 2009). The idea of measuring National Accounts of Well-being (NAWB; Diener et al. 2015) seems to be one of the leading options, and as of 2019 became adopted by several governments and large international organizations like the Organization for Economic Co-operation and Development (Durand 2018). The NAWB idea is an important step forward in terms of identifying post-economic pathways for societal development. For now, however, most NAWB frameworks are based on measuring societal happiness as aggregates of personal life satisfaction.<sup>4</sup> GDP

<sup>4</sup> Durand (2018), in her report titled “Countries’ Experiences with Well-being and Happiness Metrics”, analyses national well-being measurement initiatives and indicators employed in twelve countries (see Table 2.1 in Durand 2018). Eight of nine countries that are reported as employing *subjective* well-being in their national well-being frameworks rely on personal life satisfaction (these are Austria, Belgium, Ecuador, Finland, Germany, Italy, Israel, Slovenia). The ninth country—Japan—asked its citizens to simply rate

*per capita* is correlated with individualism. In line with this argument, a recent study on societal-level well-being indicators suggests that (personal) life satisfaction is an indicator of socio-economic progress because it mainly focuses on external conditions of life such as education, economic quality and business environment (Joshanloo et al. 2019). Thus, by employing an individualism-themed measure of subjective well-being to provide the alternative to GDP *per capita*, we may not be able to avoid the GDP-centrism inherent in societal development measures. Frameworks for NAWB may need to utilize other well-being measures as well (e.g., happiness of families, sense of meaning in life, sense of harmony, sense of spirituality). This enlargement would allow well-being to be measured in a way that is less culture-bound, and offers a more culturally sensitive (or culturally objective) framework of the NAWB (Krys et al. 2020).

## 10 Limitations

Before conclusions are drawn, it is important to acknowledge several limitations of this study. First, the current study mainly relied on student samples—future studies should confirm the robustness of our findings among older participants. Second, our sampling of cultures, even if broad, was biased towards individualistic cultures—we acknowledge this limitation (but also signal that this is a problem in almost all large cross-cultural studies). Next, one of the measures of individualism-collectivism we employed (i.e., country-level aggregates of self-construals) needs to be treated with caution—recent studies show that it may be not a good proxy of individualism-collectivism. In addition, not all dimensions of self-construals turned out to be positively correlated with societal happiness measured by personal life satisfaction—this result indicates the need for further studies. Next, in several countries the reliabilities for the self-construal measures fell below conventional cut-off levels. As of 2020, Vignoles' self-construal scales show the best psychometric qualities among available self-construal scales, but if better scales appear in the future, further studies may need to replicate our findings with these improved scales. Finally, we studied concepts of happiness originating from so-called WEIRD societies (i.e., life satisfaction) and from Confucian societies (i.e., interdependent happiness); research on indigenous concepts of happiness (and their association with individualism) for other cultural regions are needed.

## 11 Concluding Remarks

In the current study we document that the positive association of societal happiness—conceptualized as country-level aggregates of personal life satisfaction—with individualism should not be generalized to collectivism-themed types of happiness. The preliminary evidence supporting this claim was proposed by Krys et al. (2019c) who studied twelve countries. We provide further support in the current study with data collected across fifty countries, and with alternative proxies of cultural individualism. We anticipate that our findings

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Footnote 4 (continued)

“happiness”. Interestingly, the only country that reached beyond hedonic and emotional aspects of subjective well-being is Ecuador—a template collectivistic country—in which national well-being also covers spirituality and eudaimonia.

will stimulate research into various types of happiness—in particular those that might help characterize happiness conceptualizations from regions currently under-represented in cross-cultural studies—Africa, Eastern Europe, Latin America, Middle East, and South Asia. With our study, we also call for more cultural sensitivity (or cultural objectivity) in designing national accounts of well-being—people around the world deserve policies that are informed by, and help them pursue, well-being in their local cultural context (Kryś et al. 2020). Ultimately, there are many ways of conceptualizing and living a happy and good life, and they each deserve being acknowledged by psychological science.

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## Compliance with Ethical Standards

**Conflict of interest** The author declares that they have no conflict of interest.

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## Affiliations

Kuba Kryś<sup>1,2</sup>  · Joonha Park<sup>3</sup> · Agata Kocimska-Zych<sup>4</sup> · Aleksandra Kosiarczyk<sup>4</sup> · Heyla A. Selim<sup>5</sup> · Agnieszka Wojtczuk-Turek<sup>6</sup> · Brian W. Haas<sup>7</sup> · Yukiko Uchida<sup>2</sup> · Claudio Torres<sup>8</sup> · Colin A. Capaldi<sup>9</sup> · Michael Harris Bond<sup>10</sup> · John M. Zelenski<sup>9</sup> · Vivian Miu-Chi Lun<sup>11</sup> · Fridanna Maricchiolo<sup>12</sup> · Christin-Melanie Vauclair<sup>13</sup> · Iva Poláčková Šolcová<sup>14</sup> · David Sirlopú<sup>15</sup> · Cai Xing<sup>16</sup> · Vivian L. Vignoles<sup>17</sup> · Wijnand A. P. van Tilburg<sup>18</sup> · Julien Teyssier<sup>19</sup> · Chien-Ru Sun<sup>20</sup> · Stanislava Stoyanova<sup>21</sup> · Ursula Serdarevich<sup>22</sup> · Beate Schwarz<sup>23</sup> · Ruta Sargautyte<sup>24</sup> · Espen Røysamb<sup>25</sup> · Vladyslav Romashov<sup>1</sup> · Muhammad Rizwan<sup>26</sup> · Zoran Pavlović<sup>27</sup> · Vassilis Pavlopoulos<sup>28</sup> · Yvette van Osch<sup>29</sup> · Ayu Okvitawanli<sup>30</sup> · Azar Nadi<sup>1</sup> · Martin Nader<sup>31</sup> · Mustaffa Nur Fariza<sup>32</sup> · Oriana Mosca<sup>33</sup> · Tamara Mohoric<sup>34</sup> · Pablo Eduardo Barrientos<sup>35</sup> · Arina Malyonova<sup>36</sup> · Xinhui Liu<sup>16</sup> · J. Hannah Lee<sup>37</sup> · Anna Kwiatkowska<sup>1</sup> · Nicole Kronberger<sup>38</sup> · Lucie Klůzová Kračmářová<sup>39</sup> · Natalia Kascakova<sup>40,41</sup> · İdil Işık<sup>42</sup> · Eric R. Igou<sup>43</sup> · David O. Igbokwe<sup>44</sup> · Diana Hanke-Boer<sup>45</sup> · Alin Gavreliuc<sup>46</sup> · Ragna B. Garðarsdóttir<sup>47</sup> · Márta Fülöp<sup>48,49</sup> · Vladimer Gamsakhurdia<sup>50</sup> · Carla Sofia Esteves<sup>13</sup> · Alejandra Domínguez-Espinosa<sup>51</sup> · Patrick Denoux<sup>18</sup> · Salome Charkviani<sup>52</sup> · Arno Baltin<sup>53</sup> · Arévalo D. M. Mira<sup>54</sup> · Lily Appoh<sup>55</sup> · Isabelle Albert<sup>56</sup> · Charity S. Akotia<sup>57</sup> · Mladen Adamovic<sup>58</sup>

✉ Kuba Kryś  
kuba@krys.pl

- 1 Institute of Psychology, Polish Academy of Sciences, Jaracza 1, Warsaw 00-378, Poland
- 2 Kokoro Research Center, Kyoto University, Kyoto, Japan
- 3 Graduate School of Management, NUCB Business School, Nagoya, Japan
- 4 Wrocław Faculty of Psychology, SWPS University of Social Sciences and Humanities, Warsaw, Poland
- 5 King Saud University, Riyadh, Saudi Arabia
- 6 Warsaw School of Economics, Warsaw, Poland
- 7 Department of Psychology, University of Georgia, Athens, GA, USA
- 8 Institute of Psychology, University of Brasília, Brasília, Brazil
- 9 Department of Psychology, Carleton University, Ottawa, Canada
- 10 Department of Management and Marketing, Faculty of Business, Hong Kong Polytechnic University, Hung Hom, Hong Kong
- 11 Department of Applied Psychology, Lingnan University, Tuen Mun, Hong Kong
- 12 Department of Education, University of Roma Tre, Rome, Italy
- 13 Instituto Universitário de Lisboa (ISCTE-IUL), CIS-IUL, Lisbon, Portugal
- 14 Institute of Psychology, Czech Academy of Sciences, Prague, Czech Republic
- 15 Faculty of Psychology, Universidad del Desarrollo, Concepción, Chile
- 16 Department of Psychology, Renmin University of China, Beijing, China
- 17 School of Psychology, University of Sussex, Brighton, UK
- 18 University of Essex, Colchester, UK
- 19 Département Psychologie Clinique du Sujet, Université Toulouse II, Toulouse, France
- 20 Department of Psychology, National Chengchi University, Taipei, Taiwan, ROC
- 21 Department of Psychology, South-West University “Neofit Rilski”, Blagoevgrad, Bulgaria
- 22 Universidad Nacional de La Matanza, San Justo, Buenos Aires, Argentina
- 23 Department of Applied Psychology, Zurich University of Applied Sciences, Zurich, Switzerland
- 24 Institute of Psychology, Faculty of Philosophy, Vilnius University, Vilnius, Lithuania
- 25 Department of Psychology, University of Oslo, Oslo, Norway
- 26 The Delve Pvt Ltd, Islamabad, Pakistan
- 27 Department of Psychology, Faculty of Philosophy, University of Belgrade, Belgrade, Serbia
- 28 Department of Psychology, National and Kapodistrian University of Athens, Athens, Greece
- 29 Department of Social Psychology, Tilburg School of Social and Behavioral Sciences, Tilburg University, Tilburg, The Netherlands
- 30 University Ngurah Rai, Denpasar, Bali, Indonesia
- 31 Department of Psychological Studies, Universidad ICESI, Cali, Colombia
- 32 Department of Business Administration, International Islamic University Malaysia, Kuala Lumpur, Malaysia
- 33 Department of Education, Psychology, Philosophy, University of Cagliari, Cagliari, Italy
- 34 Department of Psychology, Faculty of Humanities and Social Sciences, University of Rijeka, Rijeka, Croatia

- 35 Psychology Department, Universidad del Valle de Guatemala, Guatemala, Guatemala
- 36 Faculty of Psychology, Dostoevsky Omsk State University, Omsk, Russia
- 37 Department of Psychology, Indiana University Northwest, Gary, IN, USA
- 38 Institute for Education and Psychology, Johannes Kepler University Linz, Linz, Austria
- 39 Sts Cyril and Methodius Faculty of Theology, Palacký University, Olomouc, Czech Republic
- 40 Olomouc University Social Health Institute, Palacky University, Olomouc, Czech Republic
- 41 Psychiatric Clinic Pro Mente Sana, Bratislava, Slovakia
- 42 Organizational Psychology Master's Program, Istanbul Bilgi University, Istanbul, Turkey
- 43 Department of Psychology, University of Limerick, Limerick, Republic of Ireland
- 44 Baze University Abuja, Federal Capital Territory, Abuja, Nigeria
- 45 Department of Social and Organizational Psychology, University of Koblenz-Landau, Koblenz, Germany
- 46 Department of Psychology, West University of Timisoara, Timisoara, Romania
- 47 Faculty of Psychology, University of Iceland, Reykjavík, Iceland
- 48 Social and Cultural Psychology Research Group, Institute of Cognitive Neuroscience and Psychology, Hungarian Academy of Sciences, Budapest, Hungary
- 49 Institute of Psychology, Eötvös Loránd University, Budapest, Hungary
- 50 Ivane Javakhishvili Tbilisi State University, Tbilisi, Georgia
- 51 Psychology Department, Iberoamerican University, Mexico City, Mexico
- 52 Faculty of Educational Sciences, University of Oslo, Oslo, Norway
- 53 School of Natural Sciences and Health, Tallinn University, Tallinn, Estonia
- 54 HULAB, Comprometidos con tu desarrollo, San Salvador, El Salvador
- 55 Faculty of Nursing and Health Sciences, Nord University, Bodø, Norway
- 56 Research Unit INSIDE, University of Luxembourg, Esch-Sur-Alzette, Luxembourg
- 57 Department of Psychology, School of Social Sciences, University of Ghana, Legon, Ghana
- 58 Monash Business School, Monash University, Clayton, Australia