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THE ROLE OF WORK VALUES IN THE SUBJECTIVE QUALITY-OF-LIFE OF EMPLOYEES AND SELF-EMPLOYED ADULTS

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ABSTRACT. As research has produced conflicting results on the relationship between the employment form and life outcomes, it is important to examine the moderators of this link. In this article, we analyze the data of more than 4,000 working individuals of an international OECD survey and use the person-environment fit theory to test whether intrinsic and extrinsic work values have a differential effect on the subjective and eudaimonic wellbeing, and job satisfaction of organizational employees and self-employed individuals. We found that employees experience lower job satisfaction and well-being than self-employed adults but work values may narrow the gap.

Keywords: work value orientation, eudaimonic well-being, subjective well-being, job satisfaction, personenvironment fit theory, self-employment

Introduction

This study examines whether the form of employment moderates the effect of work values on working individuals' well-being. Self-employed individuals may often be considered entrepreneurs who recognize new business opportunities and undertake innovative business projects under uncertainty (Schumpeter, 1934). As theories do not assist the empirical distinction of routine self-employed people from self-employed entrepreneurs and empirical studies often conflate these categories (e.g., Henrekson and Sanandaji 2014; Van Praag and Versloot 2007), in this study, we rely on both literatures and use both terms to describe working adults who do not work for an organization as an employee.

Studies found that the subjective well-being of self-employed adults differs considerably from the well-being of employees. Self-employment is often considered the employment form that is capable of increasing well-being through the satisfaction of basic psychological needs (e.g., Shir et al., 2019; Wiklund, 2019). However, results on the relationship between entrepreneurship (or self-employment) and well-being are inconsistent. Some studies show that generally entrepreneurs are more satisfied with their job (e.g., Benz & Frey, 2008a, 2008b; Warr & Inceoglu, 2017) and life (Binder & Coad, 2013; Stephan 2018) than their employed peers. On the other hand, Bencsik and Chuluun (2019) found that self-employment has mostly negative well-being effects in the USA; self-employed working adults experience lower life-satisfaction and more negative effects, such as stress, than employees. Therefore, studying which individual differences moderate the life outcomes-employment form

relationship is important to know more about whom entrepreneurship or self-employment is for. In this paper, we propose to study the role of work values in the differences between the well-being of self-employed adults and employees.

Work value orientation refers to the type of work aspects that are considered desirable (e.g., Gallie et al., 2012; Ryan & Deci, 2000). Intrinsic work value orientation is linked to the motivation to do a job for its own sake, as it would be inherently substantial. Extrinsic work value orientation is connected to work outcomes, such as the external recognition of the job, high income, and social status (Demerouti et al., 2012; Gallie et al., 2012; Ryan & Deci, 2000). Intrinsic work value orientation was linked to higher job engagement and satisfaction, better health, and higher subjective well-being of employees, whereas extrinsic work value orientation was found to correlate with emotional exhaustion, poor health, more work and family conflicts, lesser job and life satisfaction, and happiness of employees (Deci & Ryan, 2000; Demerouti et al., 2012; Gallie, 2007; Kasser & Ryan, 1996; Van den Broeck et al., 2013; Vansteenkiste et al., 2007). There is little research on the link between the work values and the well-being of self-employed adults. Shevchuk et al. (2018) found that, similarly to employees, intrinsic work values are positively correlated, whereas extrinsic value orientation is negatively linked to the well-being of freelancers participating in online labour markets. Results also show that entrepreneurial autonomy contributes to an enhanced level of well-being directly and indirectly through the increase of feeling competent and related (Shir et al., 2019). However, despite the fundamental differences between the job of an entrepreneur and an employee, until now, studies did not examine directly if work value orientation affects employees' and self-employed adults' well-being differently.

To fill this research gap, we draw on the person-environment fit (PE) theory (Edwards et al., 1998; Kristof-Brown & Guay, 2011). The PE fit theory suggests that individuals are happy and content if there is a congruence between their needs and abilities and what their environment can provide and require. The person-job (PJ) fit refers to the compatibility between the characteristics of a specific job and a given individual. PJ fit was shown to positively influence job satisfaction and subjective well-being (Kristof-Brown et al., 2005; O'Reilly et al., 1991; Park et al., 2011; Saks & Ashforth, 1997). In this paper, we argue that work value orientation represents needs that working as an entrepreneur or an organizational employee may satisfy differently, as entrepreneurial firms differ largely from well-established organizations and the entrepreneurial job and employees' work are characterized by major dissimilarities. Therefore, we examine how entrepreneurship and employment may relate to the satisfaction of work values. Thus, the present study increases the understating of the causes behind the variations of entrepreneurs' and employees' well-being and the effects of the employment form on well-being.

In this study, we found that employees experience lower job satisfaction and well-being than self-employed adults but work values may narrow the gap. Intrinsic work value orientation was shown to benefit employees' life-outcomes to a greater extent than entrepreneurs' and extrinsic work value orientation was found to have the most severe negative impact on entrepreneurs with low income. Possible causes behind these findings and implications are discussed.

1. Literature review and hypotheses

Work values attach to diverse aspects of a job, such as a possibility of acquiring new skills, doing something meaningful, helping others, earning money, or achieving a high position in an organizational hierarchy. Although other classifications were proposed (c.f., Locke & Schattke, 2018), two main categories of work value orientations were confirmed by various research: intrinsic and extrinsic work values (e.g., Gallie et al., 2012; Gesthuizen & Verbakel,

2011). The two work value orientations usually coexist, correlate positively, and their combination may be seen as a general dedication to do a job (Gesthuizen & Verbakel, 2011; Vansteenkiste et al., 2007).

The importance of work value orientation stems from its dual effect on organizational success and working individuals' quality-of-life (e.g., Kasser & Ryan, 1996; Ryan & Deci, 2000; Van den Broeck et al., 2013; Vansteenkiste et al., 2007). The effect of work value orientation on subjective well-being is typically explained by the self-determination theory (SDT) (Deci & Ryan, 2000). SDT posits that people's subjective well-being increases if their basic psychological needs for autonomy, competence, and relatedness are satisfied. Researchers argue that intrinsic work values enable the satisfaction of basic psychological needs, while extrinsic values empower the impact of external feedbacks and hinder the satisfaction of basic needs (Deci & Ryan, 2000). Work value orientation was also incorporated into the job demand resource (JDR) model (Bakker & Demerouti, 2007) to explain working adults' well-being. Authors claimed that extrinsic value orientation represents a job demand leading to reduced satisfaction and psychological and physiological ill-being. On the other hand, intrinsic values are argued to embody job resources triggering higher well-being through the satisfaction of basic needs (Demerouti et al., 2012; Shevchuk et al., 2018; Van den Broeck et al., 2011).

However, the PE fit theory implies that any work values should be considered needs. The needs-supplies dimension of fit between individuals and their work environment concerns the degree to which the work environment satisfies the needs of individuals acting in the environment. The lack of the needs-supplies fit puts psychological, physical, and behavioral strains on individuals, such as dissatisfaction, stress, or anxiety (Edwards et al., 1998; Kristof-Brown & Guay, 2011). As working adults' life in entrepreneurship differs considerably from the life of organizational employees (e.g., Croson & Minniti, 2012; Nikolaev et al., 2019; Shir et al., 2019; Stephan, 2018), in the following sections, we examine how entrepreneurship and employment are able to satisfy the needs of working individuals deriving from intrinsic and extrinsic work value orientations.

As for autonomy, on the one hand, entrepreneurs are considered to be self-directed, enjoying higher work flexibility and autonomy in decision making than their employed peers. Therefore, entrepreneurs are better positioned than employees to find purpose and motivation in work (Croson & Minniti, 2012; Markman & Baron, 2003; Nikolaev et al., 2019; Rauch & Frese, 2007; Shir et al., 2019). Yet, entrepreneurship is also characterized by long working hours that may increase stress and restrict the autonomous and flexible organization of private time (Baines et al., 2003; Süß & Sayah, 2013). Moreover, intrinsically oriented employees are also likely to learn and develop, participate in decision making, and find autonomy (Vansteenkiste, 2007). As for relatedness, employees with intrinsic work value orientation are more likely to care for and feel connected to others than their peers (Kasser & Ryan, 2001; Richins & Dawson, 1992). For entrepreneurs, the potential tension between prosocial and forprofit motivations may cause stress and decrease well-being (Kibler et al., 2019; Ryff, 2019). Being the boss of others can also deprive entrepreneurs of collegial relatedness that is more easily achievable when working as an employee of a larger organization (Hannafey, 2003). As regards competence, entrepreneurship scholars claim that learning-by-doing is the primary way entrepreneurs learn (Frese & Gielnik, 2014; Minniti & Bygrave, 2001; Politis, 2005).

Therefore, on the one hand, entrepreneurs are considered better positioned than employees to satisfy their inner needs to use and develop their skills and fulfill their aspirations to develop and acquire new competencies (Nikolaev et al., 2019; Shir et al., 2019; Stephan, 2018). On the other hand, entrepreneurship is also seen as a process full of uncertainties, unexpected challenges, and frequent failures (e.g., European Commission, 2016; Frese & Gielnik, 2014; Schonfeld & Mazzola, 2015). Overconfidence in entrepreneurial skills with unrealistically optimist income and growth expectations are well documented (e.g., Hall &

Woodward, 2010; Szerb & Voros, 2020). About half of the ventures fail and half of the entrepreneurs continue working as an employee within three to five years worldwide (Quatraro & Vivarelli, 2014). Thus, feeling competent may be challenged during the entrepreneurial process. At the same time, it was argued that employees with intrinsic work motivation are more likely to develop their skills and take on new challenges than other employees. Thus, they are more likely to feel competent than their counterparts (Amabile et al., 1994).

All in all, entrepreneurship or self-employment may hamper feeling competent and related to others but support autonomy, self-development, and learning. Shir et al. (2019), for example, found that entrepreneurial engagement directly increases autonomy and, in turn, augmented autonomy drives the rise in feeling competent and related. On the other hand, employees seem to be better positioned than entrepreneurs to experience relatedness. Additionally, intrinsically oriented employees are also highly likely to learn and develop, feel competent, and autonomous (Slemp & Vella-Brodrick, 2014). Hence, as intrinsic work value orientation helps employees to find or create a work environment that satisfies their basic psychological needs, the positive effect of intrinsic work value orientation is supposed to be stronger in the case of employees. Thus, we formulate two competing hypotheses.

H1: The well-being of entrepreneurs is higher than that of employees but intrinsic work value orientation may compensate the latter.

SDT and JDR suggest and studies generally confirm that extrinsic work value orientation is detrimental to the well-being of working individuals (see Introduction). However, some studies show that the negative effect of extrinsic work value orientation disappears if individuals earn a high income (Malka & Chatman, 2003; Nickerson et al., 2003). Indeed, PE implies that if a work environment is able to satisfy the needs associated with extrinsic values, extrinsic value orientation may be positively linked to well-being. However, the income of entrepreneurs or self-employed adults is typically lower than employees' (e.g., Hamilton, 2000; Sorgner et al., 2017). Moreover, entrepreneurial income and success of the business ventures are typically overestimated (see under the argumentation under H1a and H1b). Also, entrepreneurs or self-employed adults are obviously accountable for the result of their business venture and their income, meanwhile employees' income is usually fixed and employees' performance is often not directly measurable and linked to their wages (e.g., Murphy 2008). Therefore, we posit that extrinsic work value orientation fits employment better as it impairs low-income entrepreneurs the most.

H2: Extrinsic work value orientation is the most harmful to low-income self-employed adults' well-being.

2. Methodological approach

For this study, we used the data of OECD's PIAAC non-cognitive skill international pilot study (OECD, 2018). OECD conducted the online study survey by using the Survey Monkey platform. The data of about 1,500 adults aged between 16 and 65 years were collected between 01.2017 – 03.2017 in Germany, Spain, France, Japan, and Poland. The sample was a non-representative convenience sample but age and gender quotas were used to randomly select participants. The survey contained several personality tests with questions on sociodemographic information and life-outcomes (see OECD, 2018). OECD (2018) contains the full questionnaire and the database.

For this study, responders with missing data, whose mother tongue differed from the language of the questionnaire, were aged below 18 years and did not work were not taken into account. The data of 4,374 participants was analyzed.

2.1. Data and analyses

The employment status was a binary code: employed (N=3,863) vs self-employed (N=511). Intrinsic and extrinsic work value orientations were assessed by eight statements under the question "For you personally, how important do you think each of the following would be if you were choosing a job?". Work value orientation statements were adapted from the European Social Survey 5th wave (European Social Survey, 2010) and the British Skills Survey 1992 and 2006 waves (see Gallie et al., 2012). Statements were evaluated on a fivepoint Likert-scale with "not at all" and "very important" endpoints. The sum of answers given to the statements of "A job that enables you to use your own initiative", "A job that gives you the opportunity to use your abilities", "A job that allows you to work independently", and "A job you like doing" represented the strength of intrinsic work value orientation (Cronbach's Alpha=0.805, M=16.28, SD=2.592). Extrinsic work value orientation was characterized by the statements; "A secure job", "A job with high income", "A job with good fringe benefits", and "A job with good physical working conditions" (Cronbach's Alpha=.765, M=15.77, SD= 2.61). The unrestricted two-factor model of job value measures (χ 2=1,020.691 p=0.000 RMSEA=0.110 CFI=0.926 TLI=0.890 SRMR=0.041 CD=0.913) had a significantly better model fit than the single-factor model (χ2=1,217.168 p=0.000 RMSEA=0.117 CFI=0.911 TLI=0.875 SRMR=0.047 CD=0.874).

Categories of well-being were assessed on a 10-point Likert scale. Subjective well-being or happiness consists of a context-free cognitive judgment of life contentment and levels of positive and negative effects (Diener, 1984; Kahneman, et al. 1999). The question "Overall, how satisfied are you with your life nowadays?" represented the global evaluation of life satisfaction (M=6.61, SD=1.962). Recent experience of happiness and worry was assessed by the questions "Overall, how happy did you feel yesterday?" (M=6.65, SD=2.165) and "Overall, how anxious did you feel yesterday?" (M=4.29, SD=2.508). Eudaimonic well-being refers to meaning, self-realization, and purposefulness (Ryan & Deci, 2001; Waterman et al., 2010). Eudaimonic happiness was assessed by "Overall, to what extent do you feel the things you do in your life are worthwhile?" (M=6.78, SD=1.994). Well-being questions were adapted from Dolan et al. (2011) the Annual Population Survey (UK's Office of National Statistics) (see also Dolan et al., 2011). The unrestricted four-factor model of the well-being measures (χ 2=0.047 p=0.000 RMSEA=0.000 CFI=1.000 TLI=1.000 SRMR=0.003 CD=0.999) had a significantly better model fit than the single-factor model (χ 2=135.214 p=0.000 RMSEA=0.123 CFI=0.983 TLI=0.950 SRMR=0.024 CD=0.894).

Table 1 contains the descriptive statistics of the above measures by employment group. Life satisfaction of employed adults was higher in our sample but the two employment status groups did not differ in their work value orientation or other well-being measures (Table 1.).

Well-being at work or subjective job satisfaction is an important domain-specific aspect of subjective well-being (Bowling et al., 2010). Job satisfaction is described as a positive emotional state rooted in the appreciation of one's job. Job satisfaction was assessed by the question "All things considered, how satisfied are you with your current job?". Respondents chose one category from "extremely satisfied" (14.56%), "satisfied" (49.4%), "neither satisfied nor dissatisfied" (25.43%), "dissatisfied" (7.7%), and "extremely dissatisfied" (3%). According to our sample, self-employed adults enjoy higher job satisfaction (Mann-Whitney U=917,660, p<.01) than employees.

Table 1. Descriptive Statistics of the Well-being and Work Value Orientation Measures by Employment Status

Variable	Employment status	M	SD	t	
In	Employed	16.098	2.604	-0.792	
	Self-employed	16.196	2.662	-0.792	
Ex	Employed	15.604	2.654	-0.866	
	Self-employed	15.712	2.742	-0.800	
LS	Employed	6.634	1.941	2.399*	
	Self-employed	6.413	2.097	2.399	
EWB	Employed	6.770	1.987	-1.016	
	Self-employed	6.865	2.048	-1.010	
Нар	Employed	6.670	2.150	1.367	
	Self-employed	6.530	2.285	1.307	
Anx	Employed	4.301	2.512	1.121	
	Self-employed	4.168	2.468	1.121	

Note. M=mean. SD= standard deviation. In=intrinsic work value. Ex=extrinsic work value. LS=life satisfaction. EWB= eudaimonic well-being. Hap=happiness. Anx=anxiety.

The unrestricted seven-factor model of the above non-cognitive skills ($\chi 2=1,145.341$ p=0.000 RMSEA=0.071 CFI=0.953 TLI=0.925 SRMR=0.032 CD=1.000) had a significantly better model fit than the single-factor model ($\chi 2=9,748.212$ p=0.000 RMSEA=0.184 CFI=0.582 TLI=0.499 SRMR=0.136 CD=0.877). The Common Latent Factor technique suggests that there is no significant common bias in the data.

The country, age category, educational attainment, gender, health, marital status, income group were entered as covariates into all models on well-being (Diener et al., 2017; Dolan et al., 2011; Gallie, 2007; Gesthuizen & Verbakel, 2011) (see further information on the covariates in Annex A).

With our baseline models (M1), we tested if the employment status, extrinsic, and intrinsic work value orientations affect life outcomes when accounting for the other two parameters. Thus, these three variables and the covariates were entered into the same model. As a next step, M1 was extended with an intrinsic orientation * employment status interaction effect (models M2) to see if the form of employment moderates the effect of intrinsic work value orientation on life-outcomes. In the last step, M1 was extended to test if income moderates the effect of extrinsic values in employment and in the case of self-employed adults. Thus, the extrinsic value orientation * employment status* income interaction effect was entered into the models M1 (models M3). Generalized linear models (GLM) in SPSS 25 were used for all analyzes. A p-value of less than .05 was considered statistically significant.

3. Results

Our baseline GLM (M1) models show that employees are less satisfied with their job $(B=-.3756,\,p<.01)$ and their eudaimonic well-being is lower $(B=-.147,\,p<.01)$ than that of self-employed working adults. Intrinsic work value orientation decreases anxiety $(B=-.117,\,p<.001)$ and affects all other measured life-outcomes positively $(JS B=.0687,\,p<.001;\,EWB B=.147,\,p<.001;\,LS B=.088,\,p<.001;\,Hap B=.122 p<.001). Extrinsic work value orientation decreases job satisfaction <math>(B=-.0498,\,p<.01)$ but does not influence hedonic and eudaimonic well-being. Table II summarizes the parameter estimates for employment status, work value orientations, and their interactions. See also Table III for the likelihood ratio chi-square statistics for the full models and the Wald chi-square statistics for the independent variables of the models on life-outcomes.

^{*}p<.05

Models M2 indicates that when accounting for the potential differential effect of intrinsic values in the different forms of employment, employees experience lower job satisfaction (B=-1.46045, p<.05), happiness (B=-1.135, p<.05) and eudaimonic well-being (B=-1.212, p<.05) than entrepreneurs. However, intrinsic work value orientation counterbalances the drawbacks of being an employee in the case of all three life-outcomes (In*Es JS B=.0676, p<.1; EWB B=.061, p<.05; Hap B=.076, p<.05). In fact, intrinsic work values do not affect self-employed adults' happiness (B=.055, p>.1) and job satisfaction (B=.008, p>.1) but employees' (Hap B=.131, p<.001; JS B=.075, p<.001).

Also, according to models M2, the main effect of intrinsic work value orientation for eudaimonic well-being (B=.093, p<.01), anxiety (B=-.122, p<.01), and life satisfaction (B=.059, p<.05) remains significant (see Tables 2 and 3). Taken together, it seems that intrinsic work value orientation positively affects all examined life-outcomes. On average, entrepreneurs enjoy higher job satisfaction, eudaimonic and hedonic well-being. However, intrinsic work value orientation leads employees to experience life-outcomes comparable to those of entrepreneurs. This means that H1 is approved.

By completing the baseline model with the employment status * extrinsic work values * income interaction effect (M3), the models indicate that lower-income coupled with higher extrinsic work value orientation is more damaging for the life-outcomes of entrepreneurs than that of their employed peers. An employment status * extrinsic work values * income interaction effect was detected in the models M3 on job satisfaction, eudaimonic well-being, and anxiety (see Tables 2 and 3). Thus, a relatively low income coupled with higher extrinsic work values decreases several aspects of the life-outcomes of entrepreneurs but do not deteriorates the well-being of employees. Hence, H2 can be accepted.

Table 2. Parameter estimates for employment status, work value orientation and their interactions of the GLM models on life-outcomes

Model	Variable	<u>JS</u>		<u>EWB</u>		<u>LS</u>		Anx		<u>Hap</u>	
		В	SE	В	SE	В	SE	В	SE	В	SE
M1	ES1	-0.375***	0.091	-0.147+	0.082	0.093	0.08	0.081	0.116	0.023	0.091
	Ex	-0.049**	0.016	0.002	0.014	-0.011	0.014	0.02	0.02	-0.026	0.016
	In	0.068***	0.016	0.147***	0.014	0.088***	0.014	-0.117***	0.02	0.122***	0.016
	Es1	-1.460**	0.560	-1.135*	0.501	-0.434	0.489	-0.005	0.706	-1.212*	0.555
$M2^1$	Ex	-0.049**	0.016	0.002	0.014	-0.011	0.014	0.02	0.02	-0.025	0.016
IVIZ	In	0.008	0.035	0.093**	0.031	0.059*	0.03	-0.122**	0.043	0.055	0.034
	Es1 * In	0.067+	0.034	0.061*	0.031	0.033	0.03	0.005	0.043	0.076*	0.034
M3 ² -	ES1	-0.937+	0.528	-0.940*	0.477	0.093	0.465	-0.008	0.671	-0.877+	0.528
	Ex	-0.007	0.044	0.007	0.04	0.052	0.039	-0.074	0.056	-0.042	0.044
	In	0.070***	0.016	0.149***	0.015	0.089***	0.014	-0.121***	0.02	0.125***	0.016
	Es1 * I1 * Ex	-0.103+	0.055	-0.037	0.05	-0.045	0.048	0.171*	0.07	0.023	0.055
	Es1 * I2 * Ex	-0.071	0.054	-0.033	0.048	-0.099*	0.047	0.162*	0.068	-0.009	0.054
	Es1 * I3 * Ex	-0.065	0.051	0.011	0.046	-0.073	0.045	0.115+	0.065	0.004	0.051
	Es1 * I4 * Ex	-0.032	0.05	-0.001	0.045	-0.071	0.044	0.082	0.064	0.014	0.05
	Es1 * I5 * Ex	0.010	0.052	0.01	0.048	-0.063	0.046	0.014	0.067	0.063	0.053
	Es1 * I6 * Ex	0.032	0.035	0.049	0.032	-0.013	0.031	0.036	0.045	0.054	0.036
	Es2 * I1 * Ex	-0.148***	0.044	-0.101*	0.04	-0.053	0.039	0.179**	0.056	-0.065	0.044
	Es2 * I2 * Ex	-0.120**	0.045	-0.093*	0.041	-0.094*	0.04	0.138*	0.057	-0.07	0.045
	Es2 * I3 * Ex	-0.079+	0.041	-0.026	0.037	-0.065+	0.036	0.127*	0.052	-0.035	0.041
	Es2 * I4 * Ex	-0.074+	0.04	-0.062+	0.036	-0.099**	0.035	0.093+	0.051	-0.051	0.04
	Es2 * I5 * Ex	-0.025	0.044	-0.022	0.039	-0.05	0.038	0.002	0.055	0.022	0.043

Note. In=intrinsic work value. Ex=extrinsic work value. LS=life satisfaction. EWB= eudaimonic well-being. Hap=happiness. Anx=anxiety. ES= employment status. ES1= employees. ES2= entrepreneurs. I=income.

¹Interaction effect reference group is entrepreneurs*intrinsic work value orientation.

²Interaction effect reference group is entrepreneur* highest income category (I6)*extrinsic work value orientation.

⁺⁼p<.1, *=p<.05, **=p<.01, ***=p<.001

Table 3. Likelihood ratio chi-square statistics for the full models and Wald chi-square statistics for the independent variables of the models on life-outcomes

Model	Variable	JS	EWB	LS	Anx	Hap
M1 -	Full model	415.297***	1315.155***	1390.521***	323.227***	1144.085***
	Intercept		368.321***	564.142***	429.795***	406.573***
	Country	179.761***	122.758***	45.205***	55.406***	44.321***
	Gender	10.491**	24.179***	17.620***	0.706	4.781*
	Education	1.164	2.092	0.468	1.724	1.110
	Health		396.713***	638.768***	125.883***	533.794***
	Age	9.930*	38.559***	8.619+	31.472***	6.645
	Income	127.159***	27.428***	97.766***	3.101	32.992***
-	MS		69.247***	114.167***	0.481	79.919***
-	Es	17.047***	3.187+	1.338	0.486	0.063
-	Ex	9.393**	0.018	0.665	0.988	2.588
-	In	17.734***	103.202***	38.897***	32.987***	58.035***
	Full model	419.142***	1319.143***	1391.714***	323.242***	1149.163***
-	Intercept		241.704***	335.139***	237.707***	270.297***
-	Country	181.214***	123.964***	45.635***	55.416***	44.847***
-	Gender	10.865***	24.644***	17.828***	0.710	5.014*
-	Education	1.177	2.142	0.457	1.724	1.206
M2	Health		398.518***	639.832***	125.777***	536.359***
	Age	9.980*	38.785***	8.659+	31.469***	6.772
	Income	128.112***	27.752***	97.988***	3.107	33.319***
	MS		68.343***	113.469***	0.476	78.843***
	ES	6.800**	5.121**	0.788	0.000	4.763*
	Ex	9.216**	0.025	0.645	0.990	2.508
	In	3.886*	43.511***	17.081***	20.434***	19.963***
	ES*In	3.856+	3.989*	1.193	0.015	5.080*
M3	Full model	436.828***	1332.409***	1407.413***	346.867***	1160.679***
	Intercept		242.170***	314.771***	248.610***	260.967***
	Country	176.016***	120.344***	41.294***	53.955***	42.221***
	Gender	9.990**	23.563***	17.292***	1.008	4.789*
	Education	1.051	1.858	0.403	1.139	1.190
	Health		395.140***	632.821***	124.216***	529.255***
	Age	10.075*	39.016***	8.854+	31.312***	6.855
	Income	4.390	3.726	3.800	14.111*	2.268
	Ms		69.175***	116.328***	0.392	81.192***
	ES	3.146+	3.886*	0.040	0.000	2.761
	Ex	9.322**	1.029	0.210	0.563	5.072*
	In	18.607***	105.435***	39.224***	34.967***	60.204***
	ES * I * Ex	21.512**	17.288+	16.925	23.704*	16.625

Note. In=intrinsic work value. Ex=extrinsic work value. MS= marital status. I=income. LS=life satisfaction. EWB= eudaimonic well-being. Hap=happiness. Anx=anxiety. ES= employment status.

Conclusion

Taken together, this study is an important step toward increasing our understanding of the role of work value orientation in the happiness and contentment of entrepreneurs or self-employed adults, and organizational employees. The results are in line with studies indicating that self-employed working adults are better positioned than employees to satisfy their basic needs as defined by the STD (e.g, Shir et al., 2019; Wiklund, 2019). However, our results also suggest that employees with intrinsic work value orientation may be able to find or create a work environment that is comparable to that of entrepreneurs in its ability to satisfy basic needs. The results of Slemp and Vella-Brodrick (2014), for example, indicate that job crafting increases employees' well-being via the satisfaction of intrinsic needs. Future research could study the exact processes through which employees with intrinsic work values achieve a work environment that is a better fit to satisfy their basic psychological needs as defined by the SDT.

⁺⁼p<.1, *=p<.05, **=p<.01, ***=p<.001

Moreover, our results show that extrinsic work values harm low-income entrepreneurs' well-being more than employees' and high-income entrepreneurs' well-being.

This result underlies the idea that if an extrinsic need is satisfied, it may not be harmful. Thus, the definition of extrinsic work values as needs within the framework of PE fit theory opens to way to examine whether extrinsic values may be positively linked to life-outcomes. For example, our theorizing suggests that extrinsic values coupled with high entrepreneurial income may decrease anxiety, or when low intrinsic values are coupled with high extrinsic values and income, the job satisfaction of employees may increase. Future research could study the factors that moderate the effects of extrinsic work value orientation and the ways extrinsic values exercise their effects.

Our results also have practical implications for mangers, organizations, and policy makers. The result that intrinsic work value orientation positively correlates with employees' well-being suggests that by promoting intrinsic motivation and introducing intrinsic motivational techniques, larger organizations and managers can increase the well-being of their employees. Considering that extrinsic work values harm self-employed adults well-being the most, we think that individuals should know more about the complexity and setbacks of the entrepreneurial job and process before market entry. Entrepreneurial success and income are typically overestimated when starting a business solo or with others. The low return of entrepreneurship was showed by several studies (e.g., Hamilton, 2000). Exaggerated income and growth expectations may cause disappointment in the subsequent performance and failure of the ventures (e.g., Shepherd et al., 2016). Therefore, policymakers could found programs to reach out to the larger public to support new venture owners, individuals with entrepreneurial intention or self-employed in making more realistic business plans, to assess their skills and opportunities more reasonably. In all probability, more realistic expectations entrepreneurship would diminish strains. Results also suggest that entrepreneurship should be promoted for individuals who would like to become entrepreneurs to fulfill their internal motivations and intrinsic motivation should be promoted among entrepreneurs.

Finally, we have to mention the limitations of our study. First, self-employment varies widely across countries. Our results are based on an international study but it would be interesting to see how work values function in other economies. Second, we worked with cross-sectional survey data. Thus, we could formulate our hypotheses solely on associations and not on causations. Third, it would be important to see how the distinction between opportunity or necessity entrepreneurship or self-employment would moderate the results.

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Appendix A

Table 4. Number of Test Takers by Covariable Categories

France	Covariate name	Coverinte entagory	Self-employed	Employed	<u>Total</u>	
Country Germany 854 98 Japan 619 111 Poland 824 121 Spain 790 129 Male 2026 313 Female 1837 198 Living with a spouse or partner Yes 2567 319 No 1296 192 Primary school 32 5 High School or equivalent 1503 175 Some college or vocational school 806 98 Tertiary education 1522 233 Less than #10% 356 88 #10% to less than #25% 470 72 #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216	Covariate name	Covariate category	= 1		N	
Country Japan 619 111 Poland 824 121 Spain 790 129 Male 2026 313 Female 1837 198 Living with a spouse or partner Yes 2567 319 No 1296 192 Primary school 32 5 High School or equivalent 1503 175 Some college or vocational school 806 98 Tertiary education 1522 233 Less than #10% 356 88 #10% to less than #25% 470 72 #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Good 1570 216 Fair 518 79		France	776	52	828	
Poland 824 121 Spain 790 129 Male 2026 313 Female 1837 198 Living with a spouse or partner Yes 2567 319 Poland 1296 192 Primary school 32 5 High School or equivalent 1503 175 Some college or vocational school 806 98 Tertiary education 1522 233 Less than #10% 356 88 #10% to less than #25% 470 72 #25% to less than #55% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79		Germany	854	98	952	
Spain 790 129 Gender Male 2026 313 Female 1837 198 Living with a spouse or partner Yes 2567 319 No 1296 192 Primary school 32 5 High School or equivalent 1503 175 Some college or vocational school 806 98 Tertiary education 1522 233 Less than #10% 356 88 #10% to less than #25% 470 72 #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79	Country	Japan	619	111	730	
Gender Male 2026 313 Female 1837 198 Living with a spouse or partner Yes 2567 319 Portnary school 1296 192 Primary school 32 5 High School or equivalent 1503 175 Some college or vocational school 806 98 Tertiary education 1522 233 Less than #10% 356 88 #10% to less than #25% 470 72 #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79		Poland	824	121	945	
Gender Female 1837 198 Living with a spouse or partner Yes 2567 319 No 1296 192 Education Primary school 32 5 High School or equivalent 1503 175 Some college or vocational school 806 98 Tertiary education 1522 233 Less than #10% 356 88 #10% to less than #25% 470 72 #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79		Spain	790	129	919	
Living with a spouse or partner Yes 2567 319 No 1296 192 Education Primary school 32 5 High School or equivalent 1503 175 Some college or vocational school 806 98 Tertiary education 1522 233 Less than #10% 356 88 #10% to less than #25% 470 72 #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79	Candan	Male	2026	313	2339	
partner No 1296 192 Education Primary school 32 5 High School or equivalent 1503 175 Some college or vocational school 806 98 Tertiary education 1522 233 Less than #10% 356 88 #10% to less than #25% 470 72 #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79	Gender	Female	1837	198	2035	
Education Primary school or equivalent 32 5 Some college or vocational school 806 98 Tertiary education 1522 233 Less than #10% 356 88 #10% to less than #25% 470 72 #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79	Living with a spouse or	Yes	2567	319	2886	
High School or equivalent 1503 175 Some college or vocational school 806 98 Tertiary education 1522 233 Less than #10% 356 88 #10% to less than #25% 470 72 #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79	partner	No	1296	192	1488	
Education 1503 175 Some college or vocational school 806 98 Tertiary education 1522 233 Less than #10% 356 88 #10% to less than #25% 470 72 #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79		Primary school	32	5	37	
Education equivalent Some college or vocational school 806 98 Tertiary education 1522 233 Less than #10% 356 88 #10% to less than #25% 470 72 #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79		High School or	1502	175	1678	
Some college or vocational school 7 1522 233 233 234 235	Education	equivalent	1303	173		
Vocational school Tertiary education 1522 233	Education			98	904	
Less than #10% 356 88 #10% to less than #25% 470 72 #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79		vocational school				
Estimated gross pay per year #10% to less than #25% 470 72 #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79		Tertiary education	1522	233	1755	
Estimated gross pay per year #25% to less than #50% 846 83 #50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79		Less than #10%	356	88	444	
#50% to less than #75% 967 101 #75% to less than #90% 694 81 #90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79		#10% to less than #25%	470		542	
#50% to less than #75% 967 101	Estimated gross pay per year		846	83	929	
#90% or more 530 86 Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79	Estillated gross pay per year	#50% to less than #75%	967	101	1068	
Excellent 332 54 Very good 1325 142 Subjective health Good 1570 216 Fair 518 79		#75% to less than #90%	694	81	775	
Very good 1325 142 Subjective health Good 1570 216 Fair 518 79		#90% or more	530	86	616	
Subjective health Good 1570 216 Fair 518 79		Excellent	332	54	386	
Fair 518 79		Very good	1325	142	1467	
	Subjective health	Good	1570	216	1786	
		Fair	518	79	597	
Poor 118 20		Poor	118	20	138	
18-25 209 25		18-25	209	25	234	
26-35 1017 88		26-35	1017	88	1105	
Age category 36-45 960 110	Age category	36-45	960	110	1070	
46-55 1195 185		46-55	1195	185	1380	
56-65 482 103		56-65	482	103	585	
Total 3863 511	Total		3863	511	4374	