

## Journal of Teacher Education and Lifelong Learning (TELL)

Volume: 4 Number: 2 Year: 2022

Research Article

ISSN: 2687-5713

# How Do Personality Traits Influence Adolescents' Career Anxiety and Self-Efficacy in Making Career Decisions?

Osman Söner<sup>1</sup>



Olcay Yılmaz<sup>2</sup>



<sup>1</sup> Uludağ University, Bursa, Türkiye osmansoner02@hotmail.com <sup>2</sup> TED University, Ankara, Türkiye tr.olcay@gmail.com

#### **Article Info**

#### **ABSTRACT**

**Article History** Received: 12/07/2022 Accepted: 02/11/2022 Published: 31/12/2022

#### **Keywords:**

Career anxiety. Career decisionmaking selfefficacy, Personality traits, Adolescents, Vocational Choice

The aim of this study was to search for the links between adolescent career anxiety, career decision-making self-efficacy, and adjective-based personality traits, as well as to see how predictive adjective-based personality qualities are for career anxiety and decision-making self-efficacy. A total of 710 students, 511 girls (72%) and 199 boys (28%) from various high schools in Istanbul, Turkey, made up the research group. Predictive correlational model was used in the analysis of the data while Career Anxiety Scale, Career Decision-Making Self-Efficacy Scale and Adjective-Based Personality Scale were used as data collection tools. After providing the normality assumptions and checking extreme values, data analysis was carried out. Standard multiple regression analysis was performed to examine the predictive potential of personality traits based on adjectives on career anxiety and career decision-making self-efficacy, while Pearson Correlation analysis was utilized to determine the relationship between the variables. As a result of the study, several significant correlations between adolescent career anxiety, career decision-making self-efficacy, and adjective-based personality traits were discovered. It was also discovered that adjective-based personality traits predicted career anxiety and competence expectation in career decision-making.

Citation: Yılmaz, O. & Söner, O. (2022). How do personality traits influence adolescents' career anxiety and selfefficacy in making career decisions? Journal of Teacher Education and Lifelong Learning, 4(2), 110-123.



"This article is licensed under a Creative Commons Attribution-NonCommercial 4.0 International License (CC BY-NC 4.0)"

#### INTRODUCTION

The Career is the succession of events that occur throughout one's life, including advances, pauses, and regressions in employment and profession (Özyürek, 2016; Yeşilyaprak, 2019). Along with these changes that individuals experience throughout their lives, their development processes can also be affected by various positive or negative emotions such as anxiety (Baltes, 1987). One of the frequently encountered situations during adolescence that negatively affect career development and specifically career choice is *career anxiety* (Vignoli, Croity-Belz, Chapeland, Fillipis, and Garcia 2005).

Career anxiety is the fear of failure that negatively affects the career development of the individual (Vignoli, 2015) and such an indecision affects career choice and career development (Tsai, H. Hsu, & Y.C. Hsu, 2007). It is a concept that addresses the detrimental impacts of career development brought on by a lack of information (Pisarik, Rowell, & Thompson, 2017) and the negative emotions experienced during career decision-making process (Fouad, 2007; Saka et al., 2008). In some cases, some certain amount of anxiety when making career-related decisions can help individuals prepare themselves for career-related tasks (Cho, 2008; Harren, 1979). However, if the anxiety experienced reaches to an uncontrollable level, it ceases to be beneficial and may negatively affect the career choice of the individual (Shin & Lee, 2019). Adolescents in transition, such as those choosing a higher education program in the formal school system, might be considered as an important group in this regard because their decisions may have long-term consequences on their career development.

There are some studies on *career anxiety* of adolescents (e.g., (Campagna & Curtis, 2007, p.94; Corkin et al., 2008, p. 87; Daniels et al., 2011, p. 417; Hawkins et al., 1977, p. 401; Kaplan and Brown, 1987; Peng, 2005, p. 300) which mostly examine the relationship between career or vocational indecision and anxiety. It is widely assumed that university students comprise the majority of the sample group in relevant studies, and high school teenagers are the subject of a small proportion of them. The findings of these research suggest that there is a positive association between anxiety and career or vocational indecision, and that trait anxiety is more helpful than state anxiety in reducing career anxiety. Furthermore, it has been discovered that adolescent anxiety during the career development process is often linked to exam anxiety, future anxiety, and unemployment anxiety (Alkan, 2014; Ayyıldız, 2015: 182; Kaya & Varol, 2004; Şanlı Kula & Saraç, 2016, p. 240). When the relationship between vocational indecision and career anxiety in high school students is examined, it is observed that as the students' vocational indecision grows, their career anxiety regarding choosing a profession grows as well (Nalbantoğlu Yılmaz & Çetin Gündüz, 2018b, p. 41).

Another psychological factor affecting the career development of adolescents is supposed to be career decision-making self-efficacy. A similar concept of efficacy expectation was first used in the literature in Bandura's (1977) social learning theory (Dursun & Kara, 2019). In his theory, Bandura (1977) defined efficacy expectancy as the sum of an individual's ability and perceptions on any subject. The concept of career self-efficacy was first explained in social cognitive career theory (Betz & Hackett, 1981). Career decision-making self-efficacy is individuals' confidence in their ability to fulfill and perform tasks related to career choice and commitment (Taylor & Betz, 1983); an important situation that guides individuals and affects their career development (Betz, 2007; Klassen & Chiu, 2010). It can be defined as the individual's beliefs about himself/herself (Betz & Hackett, 1981) regarding the individual's ability to fulfill the career development tasks expected from him/her during the career development period he/she is in. Showing skills in self-assessment, conducting research on the professions one wishes to pursue, creating objectives, preparing for the purpose, and problem-solving behaviors are some examples of career development tasks that are strongly associated to this notion (Crites, 1976). Having a high level of career decision-making self-efficacy in fulfilling career development tasks is generally associated with positive career attitudes, high self-esteem and clearer professional identity (Choi et al., 2012). Individuals with a high level of career decision-making self-efficacy are more likely to participate in career exploration and planning activities, identify career interests, constantly work towards career goals, and have greater success (Hou, Wu, & Liu, 2014). Maintaining a high level of career decision-making self-efficacy is a positive indicator that adolescents take initiative in career research and planning activities to identify and further refine their career interests and career goals (Lent et al., 2000). On the contrary, low career decision-making self-efficacy levels are often associated with vulnerability to stress and depression (Bandura, Barbaranelli, Caprara, & Pastorelli, 2001), as well as some career decision-making difficulties that lead to career indecision (Gati et al., 2011).

Research on career decision-making self-efficacy in adolescents report a positive and significant relationship with career decision-making self-efficacy and family social support (Xing & Rojewski, 2018), stronger sense of self-identity (Kim & Yang, 2019), career research behaviors (Blustein, 1989), career maturity and career adjustment (Chung, 2002; Patton & Creed, 2001) while a negative relationship with career indecision (Taylor, Klein, & Betz, 1996) is reported. Additionally, research findings (Gushue, Clarke, Pantzer, & Scanlan, 2006) demonstrate that self-efficacy in career decision-making clearly depicts professional identity and enhances people's behavior while considering their career options. Also, evidence (i.e., Abidin et al., 2019) suggests that gifted students have stronger self-efficacy in vocational decision-making than their non-gifted classmates. It is also stated that people who have high career decision-making self-efficacy are more focused on their goals than those with a low expectation of making a career plan, participating in the career research process, and making career decisions (Rogers, Creed, & Glendon, 2008).

Personality traits are another psychological aspect that influences how adolescents pursue their careers. According to studies, personality traits have a substantial impact on choosing a career (Yeşilyaprak, 2012). Systems that encompass all of an individual's overall emotional, physical, and intellectual traits are referred to as their personality (Bacanlı, İlhan, & Aslan, 2009; Burger, 2006; Yelboğa, 2006). To put it another way, personality is described as a set of structures that include all psychological and physiological aspects in order to comprehend an individual's emotional, behavioral, and cognitive features (Mount et al., 2005). Five factor personality theory (McCrae & Costa, 1985), which is one of the approaches to explain personality, attempted to unify the idea of personality by taking into account the previous definitions. Studies related to this approach show that explanations about personality can be grouped under five different concepts. These concepts can be named as extraversion, neuroticism, agreeableness, conscientiousness and openness to experience which can be briefly defined as follows:

- *Extraversion*; It represents the friendly, social and affectionate aspects of individuals who love to have fun, are talkative, like to joke, like to win (McAdams, 2008; McCrae & Costa, 1985). Individuals with this characteristic are those who like to establish good relations with other people, have a positive outlook on life, and have developed social relations with their environment. Individuals with this feature care about those around them and also expect other people to notice them (Barrick & Mount, 1991).
- Agreeableness; Individuals with this personality trait are more likely to cooperate with others. These individuals are friendly towards others and come to the fore with their social, kind, tolerant, forgiving, warm and reassuring and collaborative nature (Glass, Prichard, Lafortune, & Schwab, 2013; Kayadibi, 2019).
- Conscientiousness; People with this trait are distinctive with their self-control and self-discipline features. They act in a planned manner and proceed with determination towards their plan. Individuals with these characteristics are known for being organized, hard, meticulous, and responsible, as well as being effective, competent, attentive, and practical at work (McCrae & Costa, 1985).
- Neuroticism; This concept corresponds to the state of neuroticism. While people with a high
  level of this trait feel restless, anxious and stressed, those with low levels are more balanced,
  harmonious and able to cope with stress (Glass, Prichard, Lafortune, & Schwab, 2013;
  Lounsbury & Gibson, 2009). Individuals with this personality trait are more likely to use
  their emotional characteristics to deal with challenges or stress in their life (Kayadibi, 2019).
- *Openness to experience;* It encompasses people's openness to life experiences and multiple interests. Individuals with this personality trait are known for their knowledge-seeking, adventurous, creative, imagination and curious aspects (Bozioneles, 2014).

As can be seen, the majority of participants in studies on personality traits based on the five-factor personality theory are college students. According to these studies, an individual's personality traits can be influenced by both personal and systemic variables. In their study examining five factor personality traits, career success, and general mental ability, Judge et al. (1999) found that personality traits positively predicted intrinsic (i.e., career satisfaction) and extrinsic (i.e., income and job status) career success. Furthermore, neuroticism was found to be a negative predictor of external career success and a favorable predictor of overall mental capacity. In a research by Seibert and Kraimer (2001) with employees from various professions and business fields; it was found that extraversion was positively related to salary level, promotion and career satisfaction; neuroticism was negatively related to career satisfaction; agreeableness was negatively related only to career satisfaction; and openness to experience trait was negatively related to salary level. Lounsbury, Hutchens, and Loveland (2005), in another study examining the relationship between career indecision and personality traits of middle and high school students, also found that career decision-making status of students was positively related to personality traits of conscientiousness, openness to experience, and agreeableness. Besides, neuroticism personality trait was found to be negatively related to career decision making. Kayadibi (2019) found a significant negative relationship between career anxiety and conscientiousness and agreeableness, and a positive relationship between neuroticism in his study with high school students. Hoseinifar et al. (2011) showed a negative significant association between creativity and neuroticism in a study of high school students, but a positive significant relationship between creativity and extraversion, as well as agreeableness, self-control, and openness to experience.

Given the content, purpose, and, in particular, the features of the populations studied in the literature, it can be concluded that this study will make a significant contribution to knowledge about the effect of personality traits on career anxiety and self-efficacy in adolescents' career decision-making. The relationship between adolescents' career anxiety, career decision-making self-efficacy, and personality traits are also investigated in this study, which is probing to what extent adjective-based personality factors predict career anxiety and career decision-making self-efficacy.

#### **METHOD**

In this section, information about the research design, participants, measurement tools and data analysis are given.

### Research Design

The link between career decision-making self-efficacy and career anxiety, as well as the extent of personality trait prediction on these variables, were examined in this study using the predictive correlational analysis technique. In order to evaluate the correlations between the variables, this analysis is performed to determine the predictive potential of the unknown variable based on the known value. If the number of predictor variables is two or more, such correlational designs are called multifactorial (Büyüköztürk et al., 2014).

## **Participants**

The study group of the research consists of students from different high schools in Arnavutköy district of Istanbul. Of the participants, 511 (72.0%) were girls and 199 (28.0%) were boys, and the ages of the participants ranged from 14 to 19. Of the participants, 202 (28.5%) were 9th graders, 219 (30.8%) 10th graders, 156 (22.0%) 11th graders, and 133 (18.7%) were 12th grade students. Demographic information about the participants is given in Table 1.

**Table 1.** *Demographic information of the participants* 

	Frequency (f)	Percentage (%)
9th Grade	202	28.5
10th Grade	219	30.8
11th Grade	156	22.0
12th Grade	133	18.7
Girls	511	72.0
Boys	199	28.0
Total	710	100.0

#### **Research Instruments**

Research data were collected using the Career Anxiety Scale, the Career Decision-Making Self-Efficacy Scale, and the Adjective-Based Personality Scale. Below is a summary of these measurement instruments.

Career Anxiety Scale: It was developed by Gündüz and Yılmaz (2016) to determine the career anxiety of adolescents in their professional development processes. The scale consists of two sub-dimensions (anxiety about career choice and anxiety about family influence) and 14 items. Within the scope of the scale's internal consistency reliability, the cronbach's alpha value for the anxiety about career choice sub-dimension was found to be .797, and the cronbach alpha value for the anxiety about family effect sub-dimension was .742. Goodness-fit indices of the scale were reported as; χ2/sd=2.518, RMSEA=0.067, CFI=0.95, NFI=0.92, NNFI=0.94, SRMR=0.055, GFI=0.92 and AGFI=0.90. The item-factor loadings were between .399 and .588 in the anxiety about family effect sub-dimension; In the sub-dimension of anxiety about choosing a profession, it was found to be between .313 and .577.

Adjective-Based Personality Test: It was developed by Bacanlı, İlhan, and Aslan (2007) to determine the personality traits of adolescents. In their study on construct validity, it was revealed that the scale consisted of five sub-dimensions and 40 items: extraversion, agreeableness, conscientiousness, neuroticism, and openness to experience. These five dimensions explained 52.6% of the total variance. In the external criterion validity study, the Sociotropy Scale, Conflict Response Scale, Negative-Positive Emotion Scale, and Trait Anxiety Inventories were used, and the external criterion validity of the scale was found to be sufficient. The Cronbach Alpha internal consistency coefficient, which was also repeated for this study, was found to be .92 for the whole scale.

Career Decision-Making Self-Efficacy Scale: It was developed by Betz, Klein, and Taylor (1996) and adapted into Turkish by Işık (2010). The scale consists of 25 items. As the scores obtained from the scale increase, the career decision competence expectations of the individuals increase. In the reliability analysis results; The Cronbach alpha internal consistency value was found to be .88. The validity study was examined with the confirmatory factor analysis method and the fit index values; GFI = .90, AGFI = .90, CFI = .92, RMSEA = .048, SRMR=.078 (Işık, 2010). The Cronbach alpha internal consistency value, which was repeated for the study, was found to be .89.

### **Data Analysis**

Standard multiple regression analysis was used to determine the effectiveness of adjective-based personality traits in predicting career decision-making difficulties and self-efficacy, and Pearson correlation analysis was used to determine the relationship between career decision-making self-efficacy, career decision-making anxiety, and personality traits. Prior to data analysis, the Mahalanobis distance was computed for the extreme values in the data set. Data from the remaining 710 participants were used for the analyses after the data that did not fit this requirement was removed. Additionally, it was determined whether the data set adheres to the following assumptions before performing the standard multiple regression analysis (Can. 2018):

• Variables are scored at least with the interval scale and show normal distribution,

- Absence of autocorrelation,
- The predicted variables are independent from each other, that is, there is no high correlation between the variables.
  - There is a linear (significant) relationship between the predictor and the predicted variables.

As a first step, the assumption of normality was examined. The kurtosis and skewness values were checked for the assumption of normality, and it was found that these values were normally distributed ranging between +1 and -1 (Morgan, Leech, Gloeckner, & Barrett, 2012), as seen in Table 2.

**Table 2.** Descriptive analyzes of participants' career anxiety, career decision-making self-efficacy, and personality traits

	n	$ar{X}$	Sd	Kurtosis	Skewness
1. Career Anxiety	710	37.2002	12.61781	.159	347
2. Career Decision-Making Self- Efficacy	710	89.7800	16.18250	444	.210
3. Neuroticism	710	26.0147	7.25315	.082	097
4. Extraversion	710	44.0298	10.25964	412	295
5. Openness to Experience	710	40.9898	7.97096	500	.080
6. Agreeableness	710	46.5833	9.47291	623	.367
7. Conscientiousness	710	36.0750	8.08733	546	.016

In the second step, the emergence of autocorrelation in the analysis which may be as a consequence of improper type of analysis, not including some variables in the model or incorrect analysis (Uysal and Günay, 2001, p.278) is inspected. Durbin-Watson d value was examined in order to determine the autocorrelation between the variables. The acceptable value of Durbin Watson d value is between 1.5 - 2.5 (Field, 2005). As a result of this analysis, Durbin Watson d values of 1.915 and 1.931 show that the assumption of multiple regression analysis is met.

As the third step, variance amplification factor and tolerance values were calculated. Multicollinearity is the predictor of the selected variables, and the correlational relationship between at least two variables is very high (Kacar & Sarıçam, 2015). Since a high correlation between the variables means that the variables measure the same things, one of the variables should be excluded from the analysis. It is necessary for this assumption that the variance amplification factor value is less than 10 and the tolerance value is greater than 0.2 (Field, 2005). In this study, the tolerance value related to the prediction of career anxiety and career decision-making self-efficacy was in the range of 46 - .88, and the variance amplification factor value in the range of 1.13 - 2.17. These findings can be interpreted as there is no problem of multicorrelation between the variables.

Finally, the correlation values between the variables were examined in order to determine the relationship levels between the predictor and the predicted variables. If the correlation coefficient is between 0 and 0.30, there is no relationship between the variables, if it is between 0.31 and 0.49, there is a weak relationship between the variables; Between 0.50 - 0.69 is a moderate relationship; If it is between 0.70 and 1.00, it is interpreted as a high (strong) relationship (Büyüköztürk et al., 2014). After providing the aforementioned assumptions for multiple regression analysis, the analysis was carried out using the Statistical Package Program for Social Sciences (SPSS 25.0).

## Ethic

Ethics committee approval was obtained from TED University Human Subjects Ethics Committee (Approval Nr. 27535802-199) in 05 November 2020.

# FINDINGS AND DISCUSSION

This research sought to determine the predictive relationship between adolescent personality traits, career anxiety, and career decision-making self-efficacy. The results of the initial Pearson correlation analysis, which was done to identify the relationship between career anxiety, career decision-making efficacy expectation, and personality traits based on adjectives, are shown in Table 3.

**Table 3.** Relationships between career anxiety, career decision-making competence and personality traits

	1	2	3	4	5	6	7
1. Career Anxiety	1						
2. Career Decision-Making Self-Efficacy	45**	1					
3. Neuroticism	.20**	24**	1				
4. Extraversion	24**	.42**	04	1			
5. Openness to Experience	17**	.36**	.07	.67**	1		
6. Agreeableness	07	.20**	07	.48**	.53**	1	
7. Conscientiousness	23**	.40**	11**	.60**	.55**	.58**	1

(\*p<0.05, \*\*p<0.01)

Table 3 shows a positive and significant relationship (r= .20, p< .01) between career anxiety and neuroticism, one of the personality sub-dimensions based on adjectives, extraversion (r= -.24, p< .01). A negative significant relationship was found between openness to experience (r= -.17, p< .01) and conscientiousness (r= -.23, p< .01). No significant relationship was found between career anxiety and agreeableness (r= -.07, p> .05). Among the personality sub-dimensions a significant positive correlation was found between, extraversion (r= .42, p< .01), openness to experience (r= .36, p< .01), agreeableness (r= 20, p< .01), and conscientiousness (r= .40, p< .01) and a negative significant relationship was found with neuroticism (r= -.24, p< .01) sub-dimension.

### Personality traits as predictors of career anxiety

Standard multiple regression analysis was used to determine which personality traits may be predicting career anxiety and the results are shown in Table 4.

**Table 4.** Standard multiple regression analysis results of personality traits as predictors of career anxiety

						Dual	Partial
	В	Sd	β	T	p	r	R
(Constant)	41.526	3.147		13.194	.000		
Extraversion	.328	.063	.188	5.208	.000	.198	.193
Agreeableness	197	.063	160	-3.118	.002	238	117
Neuroticism	100	.081	063	-1.227	.220	170	046
Openness to Experience	.207	.061	.155	3.382	.001	068	.126
Conscientiousness	270	.077	173	-3.490	.001	234	130
R= .34 R <sup>2</sup>	<sup>2</sup> =12						
$F_{(5,704)} = 18.499$ p=	000						

According to the results of the multiple regression analysis, personality traits of conscientiousness, agreeableness, openness to experience and extroversion predict 12% of career anxiety while neuroticism does not seem to have a significant (R=0.34,  $R^2=0.12$ , p<.05) predictive contribution. Using the standardized regression coefficient ( $\beta$ ) as a guide, the relative important predictor variables on career anxiety are; extraversion, conscientiousness, agreeableness, openness to experience, and neuroticism respectively. Extraversion, agreeableness, openness to experience, and conscientiousness are significant predictors of career decision-making self-efficacy when the t-test results regarding the significance of the regression coefficients are evaluated. The neuroticism variable, on the other hand, does not have a significant effect on career anxiety.

It is reported that adolescents' career indecision often causes them to experience anxiety (Vignoli, 2015). Studies examining this issue (Mojgan et al. 2011; Nalbantoğlu Yılmaz & Çetin Gündüz, 2018) similarly show that indecision significantly predicts career anxiety. A positive and significant relationship was found between neuroticism, one of the personality sub-dimensions, and career anxiety (see Table 3). In other words, as the level of neuroticism increases, career anxiety also increases. Similarly, a positive and significant relationship was found in a study conducted by Kayadibi (2019) on high school students. The relationship between career anxiety and adjective-based personality is an infrequent topic among researchers, yet there are some studies (e.g., Chamorro-Premuzic et al. 2008; Vreeke & Muris, 2012) exploring the relationships between the five-factor personality traits and anxiety. It is reported in these studies that anxiety and neurotic personality traits are related constucts. Similarly, some other researchers found a negative relationship between career success (Seibert & Kraimer, 2001), career decision making (Lounsbury, 2005) and neuroticism which are in line with this research findings.

A negative and significant relationship between extraversion and career anxiety is another finding of this research. Some studies (i.e., Kayadibi, 2019) reported no relationship between extraversion and career anxiety; however, although there is no research directly examining the relationship between these two variables, there are some studies reporting positive significant relationships between extraversion and career maturity (Atli, 2017), career decision making (Page et al., 2008; Pecjak, & Kosir, 2007) and career choice (Gökdeniz, & Merdan, 2011). In addition, the presence of negative significant relationships between extroverted personality trait and social phobia (Heiser et al., 2003; Noyan & Berk, 2007) partially overlaps with the results of the research.

Researchers often indicate that there are negative significant relationships between the trait of openness to experience and career anxiety. In one of these, Kayadibi (2019) found that this relationship is not significant. However, although they do not exactly examine the relationship between career anxiety and openness to experience, there is a positive relationship between openness to experience and career research behaviors (Li et al., 2015), career reality (Onay & Uzel, 2011) and career adaptability (Aktaş & Şahin, 2019). There are some commonalities when these factors are taken into account as potential sources of career anxiety. In another study examining the relationship between career decision making and openness to experience (Lounsbury et al., 2005), which can be considered as a similar structure, no significant relationship was found contrary to the findings of this research.

In contrast to the findings of no significant relationship between career anxiety and agreeableness, negative significant relationships between these variables have been identified in the literature (Kayadibi, 2019; Yam & Ihan, 2016). Also, the existence of a negative and substantial association between career anxiety and conscientiousness, according to the findings of this study, shows that career anxiety diminishes as conscientiousness grows. Similar results are seen in studies that reach the same conclusions as this result in the literature (Kayadibi, 2019; Yam & Ihan, 2016).

### Personality traits as predictors of career decision-making self-efficacy

The results of the standard multiple regression analysis to evaluate personality factors that influence career decision-making self-efficacy are shown in Table 5.

**Table 5.** Standard multiple regression analysis results of personality traits as predictors of career decision-making self-efficacy.

	В	S	d β	T	р	Dual r	Partial R
(Constant)	68.82	23 3.6	548	18.86	6 .000		
Extraversion	51	8 .0	7323	-7.100	.000	243	258
Agreeableness	.360	0.	73 .22	28 4.922	.000	.417	.182
Neuroticism	.368	3 .0	94 .18	3.896	.000	.357	.145
Openness to Experience	28	9 .0	7116	-4.069	.000	.189	152
Conscientiousness	.470	0.	90 .23	5.243	.000	.399	.194
R= .527	$R^2 = .28$						
$F_{(5.704)} = 54.222$	p = .000						

Table 5 reveals a modest and substantial relationship (R=0.53, R<sup>2</sup>=0.28, p<.05) between extraversion, agreeableness, neuroticism, openness to experience, and conscientiousness and adolescent career decision-

making self-efficacy. The sum of the five aforementioned variables explains around 28% of the variance explained in self-efficacy in career decision-making.

According to the standardized regression coefficient ( $\beta$ ), the relative importance of the predictor variables on career decision-making self-efficacy is explored as; conscientiousness, extroversion, agreeableness, neuroticism, and openness to experience. Extraversion, agreeableness, neuroticism, openness to experience, and conscientiousness are significant predictors of career decision-making self-efficacy when the t-test results regarding the significance of the regression coefficients are assessed.

The neuroticism sub-dimension of personality traits was found to have a negative significant relationship with career decision-making self-efficacy. In other words, as neuroticism increases, so does selfefficacy in making career decisions. In addition, the sub-dimensions of extraversion, agreeableness, openness to experience, and conscientiousness were found to have a positive and significant link with the career decision-making self-efficacy. Extroversion, agreeableness, openness to experience, and conscientiousness are personality qualities that predict high self-efficacy expectations for career decision-making. There are studies on this topic that draw conclusions that are comparable in the literature. Penn (2016) discovered a positive and significant relationship between career decision-making self-efficacy and extraversion and conscientiousness, while neuroticism was found to have a negative significant relationship. Meanwhile Bailey (2002) identified positive and significant relationships between career decision-making self-efficacy and openness to experience, conscientiousness, and extroversion, he found no correlation between agreeableness and neuroticism. In another study, Chadick (2018) discovered a positive relationship between career decision-making self-efficacy and openness to experience, onscientiocusness, extroversion, and agreeableness; however, neuroticism was found to have a negative significant relationship. Sarçam (2013) found that self-efficacy perception and decision skills, which are quite similar to the competency expectation investigated in this study, can be useful in making career decisions. Individuals' career decision-making selfefficacy (Taylor & Betz, 1983) is directly related to their ability to fulfill and accomplish tasks related to job choice and commitment, according to self-efficacy expectation. According to studies on career decision selfefficacy (Bullock-Yowell, Andrews, & Buzzetta, 2011; Jin, Watkins, & Yuen, 2009; Wang et al., 2006), there was a positive and significant relationship between career decision self-efficacy and openness to experience, conscientiousness, extroversion, and agreeableness, while negative significant relationships were explained by neuroticism.

### **CONCLUSION**

These findings can be considered to have some significance for adolescents' career decision-making, given the characteristics that influence self-efficacy and career anxiety in career decision-making. Although there are studies in the literature that show relationships between personality traits and career anxiety (Chamorro-Premuzic et al. 2008; Kayadibi, 2019; Vreeke & Muris, 2012) and career decision-making selfefficacy (Bailey, 2002; Chadick, 2018; Penn, 2016), the fact that this research revealed the relationship between career anxiety, career decision-making self-efficacy, and personality traits can be considered an important contribution. Significantly predicting career anxiety (12%) and career decision-making selfefficacy (28%) reveals that personality traits are important factors in the examination of career anxiety and career decision-making self-efficacy. In order to assist adolescents in making their career decisions, it is important to identify personality traits and take them into consideration in further studies. Even though there are studies on career decision-making self-efficacy or self-efficacy in the literature, further research that evaluate career anxiety and career decision-making self-efficacy in adolescents and their effects on career choice with various variables are recommended. Moreover, exploratory research into the determinants of career anxiety and self-efficacy in making career decisions may be valuable in highlighting the concerns that people face in this subject. Likewise, encouraging adolescents in the process of selecting a career to seek help from school counselors in order to explore their intellectual, emotional, and behavioral qualities as extensions of their personality traits can be facilitated. Thus, recognizing and supporting students' positive personality traits might help to reduce the anxiety they experience while making career decisions and increase their self-efficacy in making those decisions.

This study also has some important limitations. First and foremost, the participants were chosen using a convenient sampling method, which could restrict the generalizability of the study's findings. Additionally, the assessment methods adopted for the study require students to report about themselves, which provides a constraint in terms of influencing students' willingness to provide the expected responses. In particular, determination of personality traits based on adjectives, notably descriptive terms believed to reflect the participants' own personalities, may have revealed a skewed response tendency toward social acceptance.

### **DECLARATIONS**

The authors have no competing interests to declare that are relevant to the content of this article. Approval was obtained from the ethics committee of TED University, Ankara. The procedures used in this study adhere to the tenets of the Declaration of Helsinki and verbal informed consent was obtained prior to the interviews while an informed consent was given by all participants who completed other forms used in this study. No funds, grants, or other support was received.

#### DATA AVAILABILITY

The datasets generated during and/or analysed during the current study are available from the corresponding author on reasonable request.

#### REFERENCES

- Abidin, M.H., Amat, S., Bakar, M.A., Mahmud, M.I., & Bakar, A.Y.A. (2019). Career decision making self-efficacy (cdmse) among gifted and talented students in Malaysia: An Initial demographic study. *Journal for the Education of Gifted Young Scientists*, 7(2), 113-118. https://doi.org/0.17478/jegys.521514
- Akgün, Ö.E., Büyüköztürk, Ş., Çakmak, E.K. Demirel, F., & Karadeniz, Ş. (2014). *Bilimsel araştırma yöntemleri.* [Scientific research methods] (17. Ed.). Ankara: Pegem Akademi Yayıncılık.
- Alkan, N. (2014). Üniversite adaylarının bölüm tercihleri: Bir kariyer araştırma yöntemi olarak bölüm tanıtımları. [High School Students' University Preferences: Department Info Sessions as a Career Exploration Method] *Türk Psikolojik Danışma ve Rehberlik Dergisi*, 5(41), 61-74.
- Atlı, A. (2017). Five-factor personality traits as predictor of career maturity. *Eurasian Journal of Educational Research*, 68, 151-165.
- Ayyıldız, Y. (2015). Meslek lisesi son sınıf öğrencilerinin sosyo-demografik özelliklerine göre işsizlik kaygılarının incelenmesi. [Investigation of unemployment concerns of vocational high school students by sociodemographic characteristics] *Akademik Sosyal Araştırmalar Dergisi*, 3(20), 175-187.
- Bacanlı, F. (2008). *Career decision-making difficulties of Turkish adolescents*. Paper presented at Counseling International Perspective: Global Demands and Local Needs, Bahçeşehir University, İstanbul, Turkey, April 25-27.
- Bacanlı, H. İlhan, T., & Aslan, S. (2009). Beş faktör kişilik kuramına dayalı bir kişilik ölçeğinin geliştirilmesi: Sıfatlara dayalı kişilik testi. [Development of a personality scale based on five factor theory: Adjective based personality testABPT]. *Türk Eğitim Bilimleri Dergisi*. 7(2), 261-279.
- Bailey, C. J. (2002). Applying the five-factor model of personality to undergraduate career attitudes and beliefs: maturity, decision-making self-efficacy, and control. [Unpublished doctoral dissertation]. Faculty of the University of Missouri-Kansas City.
- Baltes, P. B. (1987). Theoretical propositions of life-span developmental psychology: on the dynamics between growth and decline. *Developmental Psychology*, 23(5), 611. https://doi.org/10.1037/0012-1649.23.5.611
- Bandura, A. (1977). Self-efficacy: Toward a unifying theory of behavioral change. *Psychological Review*, 84, 191-215. https://doi.org/10.1037/0033-295X.84.2.191
- Bandura, A., Barbaranelli, C., Caprara, G. V., & Pastorelli, C. (2001). Self-efficacy beliefs as shapers of children's aspirations and career trajectories. *Child Development*, 72(1), 187–206. https://doi.org/10.1111/1467-8624.00273
- Barrett, K. C., Gloeckner, G. W., Leech, N. L., & Morgan, G. A. (2012). IBM SPSS for introductory statistics: Use and interpretation. (Fifth Ed.). United Kingdom: Rutledge Press.
- Barrick, M. R., & Mount, M. K. (1991). The big five personality dimensions and job performance: a meta-analysis. *Personnel Psychology*, 44(1), 1–26. https://doi.org/10.1111/j.1744-6570.1991.tb00688.x
- Bayram, N. (2017). Sosyal bilimlerde SPSS ile veri analizi. [Data analysis with SPSS in social sciences] (6th Ed.). Bursa: Ezgi Kitabevi.

- Betz, N. E., & Hackett, G. (1981). The relationship of career-related self efficacy expectations to perceived career options in college women and men. *Journal of Counseling Psychology*, 28, 399–410. https://doi.org/10.1037/0022-0167.28.5.399
- Betz, N. E., Klein, K. L., & Taylor, K. M. (1996). Evaluation of a short-form of career decision making self-efficacy scale. *Journal of Career Assessment*, 4, 47-57. https://doi.org/10.1177/106907279600400103
- Betz, N. E. (2007). Career self-efficacy: Exemplary recent research and emerging directions. *Journal of Career Assessment*, 15(4), 403–422. https://doi.org/10.1177/1069072707305759
- Blustein, D. L. (1989). The role of goal instability and career self-efficacy in the career exploration process. *Journal of Vocational Behavior*, 35, 194-203. https://doi.org/10.1016/0001-8791(89)90040-7
- Bozieneles, N. (2014). The big five of personality and work involvement. *Journal of Managerial Psychology*, 19(1), 69-81. https://doi.org/10.1108/02683940410520664
- Bullock-Yowell, E., Andrews, L., & Buzzetta, M.E. (2011). Explaining career decision-making self-efficacy: Personality, cognitions, and cultural mistrust. *The Career Development Quarterly*, 59(5), 400-411. https://doi.org/10.1002/j.2161-0045.2011.tb00967.x
- Burger, J. M. (2006). Kişilik. [Personality] (İ.D. Erguvan Sarıoğlu, Trans.). İstanbul: Kaknüs Yayıncılık.
- Büyüköztürk, Ş. (2017). Sosyal bilimler için veri analizi el kitabı; İstatistik, araştırma deseni SPSS uygulamaları ve yorum. [Manual of data analysis for social sciences; Statistics, research design SPSS applications and interpretation]. (23th Ed.). Ankara: Pegem Akademi.
- Campagna, C.G., & Curtis, G.J. (2007). So worried i don't know what to be: anxiety is associated with increased career indecision and reduced career certainty. *Australian Journal of Guidance and Counseling*, 17(1), 91-96. https://doi.org/10.1375/ajgc.17.1.91
- Can, A. (2018). SPSS ile bilimsel araştırma sürecinde nicel veri analizi. [Quantitative data analysis in scientific research process with SPSS] (6th Ed.). Ankara: Pegem Akademi.
- Chadick, C. D. (2018). The role of personality using the millon college counseling inventory in explaining a variety of career decision-making difficulties [Unpublished doctoral dissertation]. Department of Psychology, The University of Southern Mississippi.
- Chamorro-Premuzic, T., Ahmetoglu, G., & Furnham, A. (2008). Little more than personality: Dispositional determinants of test anxiety (The Big Five, core self-evaluations, and self-assessed intelligence). *Learning and Individual Differences*, 18(2), 258-263. https://doi.org/10.1016/j.lindif.2007.09.02
- Cho, G. P. (2008). A study of development and validation of the Job-Seeking Anxiety Test for university students. *Korean Journal of Educational Research*, 46, 53–75.
- Choi, B. Y., Park, H., Yang, E., Lee, S. K., Lee, Y., & Lee, S. M. (2012). Understanding career decision self-efficacy: A meta-analytic approach. *Journal of Career Development*, 39(5), 443–460. https://doi.org/10.1177/0894845311398042
- Chung, Y. B. (2002). Career decision-making self-efficacy and career commitment: Gender and ethnic differences among college students. *Journal of Career Development*, 28(4), 277-284. https://doi.org/10.1023/A:1015146122546
- Corkin, D., Arbona, C., Coleman, N., & Ramirez, R. (2008). Dimensions of career indecision among Puerto Rican college students. *Journal of College Students Development*, 49(2), 81-94. https://doi.org/10.1353/csd.2008,0015
- Crites, J. (1976). A comprehensive model of career development in early adulthood. *Journal of Vocational Behavior*, 9(1), 105–118. https://doi.org/10.1016/0001-8791(76)90012-9
- Daniels, L.M., Stewart, T. L., Stupnisky, R.H., Perry, R.P., & LoVerso, T. (2011). Relieving career anxiety and indecision: The role of undergraduate students' perceived control and faculty affiliations. *Social Psycholhology of Education*, 14, 409–426. https://doi.org/10.1007/s11218-010-9151-x
- Dursun, A., & Kara, A. (2019). Ortaöğretim öğrencilerinde kariyer karar verme güçlüklerinin yordayıcısı olarak kariyer kararı yetkinlik beklentisi ve kariyer seçiminde aile etkisi. [Career decision making self-efficacy and family influence in the choice of career as a predictor of career decision making difficulties in secondary school students] *Türk Eğitim Bilimleri Dergisi, 17*(1), 39-55.
- Eryılmaz, A., & Öğülmüş, S. (2010). Ergenlikte öznel iyi oluş ve beş faktör kişilik modeli. [Subjective well-being and big five personality model at adolescence]. *Ahi Evran Üniversitesi Eğitim Fakültesi Dergisi, 11*(3), 189-203.
- Field, A. (2005). Discovering statistics using SPSS. London: Sage Publication
- Fouad, N. A. (2007). Work and vocational psychology: Theory, research, and applications. *Annual Review of Psychology*, 58(1), 543–564. https://doi.org/10.1146/annurev.psych.58.110405.085713

- Gati, I., Gadassi, R., Saka, N., Hadadi, Y., Ansenberg, N., Friedmann, R., & Asulin-Peretz, L. (2011). Emotional and personality-related aspects of career decision-making difficulties: Facets of career indecisiveness. *Journal of Career Assessment*, 19(1), 3–20. https://doi.org/10.1177/1069072710382525
- Gati, I., & Saka, N. (2001). Internet-based versus paperand-pencil assessment: Measuring career decisionmaking difficulties. *Journal of Career Assessment*, *9*(4), 397-416. https://doi.org/10.1177/106907270100900406
- Glass, R., Prichard, J., Lafortune, A., & Schwab, N. (2013). The influence of personality and facebook use on student academic performance. *Issues in Information Systems*, 14(2), 119-126.
- Gökdeniz, İ., & Merdan, E. (2011). Kişilik ve kariyer seçimi arasındaki ilişkinin incelenmesi [Investigation of the relationship between personality and career selection]. *Aksaray Üniversitesi İİBF Dergisi*, *3*(2), 23-36.
- Gushue, G. V., Clarke, C. P., Pantzer, K. M. & Scanlan, K. R. L. (2006). Self-efficacy, perceptions of barriers, vocational identity and the career exploration behavior of Latino/a high school students. *Journal of Career Development*, *54*(4), 307-317. https://doi.org/10.1002/j.2161-0045.2006.tb00196.x
- Harren, V. A. (1979). A model of career decision making for college students. *Journal of Vocational Behavior*, 14, 119–133. https://doi.org/10.1016/0001-8791(79)90065-4
- Hawkins, J.G., Bradley, R.W., & White, G.W. (1977). Anxiety and the process of deciding about a major and a vocation. *Journal of Counseling Psychology*, 24(5), 398-403. https://doi.org/10.1037/0022-0167.24.5.398
- Heiser, N.A., Turner, S.M. & Beidel, C.D. (2003). Shyness: relationship to social phobia and other psychiatric disorders. *Behaviour Research and Therapy*, 41(2), 209-221. https://doi.org/10.1016/s0005-7967(02)00003-7
- Hoseinifar, J., Siedkalan M.M., Zirak, S.R., Nowrozi, M., Shaker, A., Meamer, E., & Ghaderi, E. (2011). An Investigation of the relation between creavity and five factors of personality in students. *Social and Behaviours Sciences*, 30(1), 2037-2041. https://doi.org/10.1016/j.sbspro.2011.10.394
- Hou, C., Wu, L., & Liu, Z. (2014). Effect of proactive personality and decision-making selfefficacy on career adaptability among Chinese graduate students. *Social Behavior and Personality*, 42(6), 903–912. https://doi.org/10.2224/sbp.2014.42.6903
- Işık, E. (2010). Sosyal bilişsel kariyer teorisi temelli bir grup müdahalesinin üniversite öğrencilerinin kariyer kararı yetkinlik ve mesleki sonuç beklenti düzeylerine etkisi [The effect of a social cognitive career theory-based group intervention of university students' career decision competence and vocational outcome expectation levels]. [Unpublished doctoral dissertation]. Çukurova Üniversitesi Sosyal Bilimler Enstitüsü, Adana.
- Jin, L., Watkins, D., & Yuen, M. (2009). Personality, career decision self-efficacy and commitment to the career choices process among Chinese graduate students. *Journal of Vocational Behavior*, 74(1), 47-52. https://doi.org/10.1016/j.jvb.2008.10.002
- Judge, T. A., Higgins, C. A., Thoresen, C. J., & Barrick, M. R. (1999). The big five personality traits, general mental ability, and career success across the life span. *Personnel Psychology*, 52(3), 621-652. https://doi.org/10.1111/j.1744-6570.1999.tb00174.x
- Kacar, M., & Sarıçam, H. (2015). Sınıf öğretmen adaylarının üstbiliş farkındalıkları ile matematik kaygı düzeyleri üzerine bir çalışma. [The examination of the relationship between metacognitive awareness and math anxiety levels in preservice primary school teachers]. *Trakya Üniversitesi Eğitim Fakültesi Dergisi*, *5*(2), 137-152.
- Kaplan, D. M., & Brown, D. (1987). The role of anxiety in career indecisiveness. *The Career Development Quarterly*, 36(2), 148-162. https://doi.org/10.1002/j.2161-0045.1987.tb00786.x
- Karasar, N. (2019). Bilimsel irade algı çerçevesi ile bilimsel araştırma yöntemi: Kavramlar, ilkeler, teknikler. [Scientific research method with scientific will perception framework: Concepts, principles, techniques]. (34th Ed.). Ankara: Nobel Yayıncılık.
- Kaya, M., & Varol, K. (2004). İlahiyat fakültesi öğrencilerinin durumluk sürekli kaygı düzeyleri ve kaygı nedenleri (Samsun örneği). [The levels and reasons of state-trait anxiety of the students of faculty of theology (The case of Samsun)] *Ondokuz Mayıs Üniversitesi İlahiyat Fakültesi Dergisi*, 17(17), 31-63.
- Kayadibi, S. (2019). Lise öğrencilerinin kariyer kaygilari ile beş faktör kişilik özellikleri arasındaki ilişkinin incelenmesi. [A study on the relationship between high school studens' big five personality traits and career anxiety]. [Unpublished master's dissertation]. Çukurova Üniversitesi Sosyal Bilimler Enstitüsü Eğitim Bilimleri Anabilim Dalı, Adana.
- Kim, S., & Yang, S. (2019). The effects of Korean college students' self-identity on career decisionmaking self-efficacy. *Social Behavior and Personality*, 47(9), 1-6. https://doi.org/10.2224/sbp.8127
- Klassen, R. M., & Chiu, M. M. (2010). Effects on teachers' self-efficacy and job satisfaction: Teacher gender, years of experience, and job stress. *Journal of Educational Psychology*, 102(3), 741–756. https://doi.org/10.1037/a0019237

- Lent, R. W., Brown, S. D., & Hackett, G. (2000). Contextual supports and barriers to career choice: A social cognitive analysis. *Journal of Counseling Psychology*, 47(1), 36–49. https://doi.org/10.1037/0022-0167.47.1.36
- Lounsbury, J. W., Hutchens, T., & Loveland, J. M. (2005). An investigation of big five personality traits and career decidedness among early and middle adolescents. *Journal of Career Assessment*, 13(1), 25-39. https://doi.org/10.1177/1069072704270272
- Lounsbury, J. W., & Gibson, L. W. (2009). Personal style inventory: A personality measurement system for work and school settings. Knoxville, TN: Resource Associates Inc.
- McAdams, D.P. (2008). The person: An introduction to the science of personality psychology (5. Ed.). New Jersey: Wiley.
- McCrae, B. Robert, R., & Costa, P. T. (1985). Updating norman's "Adequate Taxonomy": Intelligence and personality dimensions in natural language and in questionnaires. *Journal of Personality and Social Psychology*, 49(3), 710-721. https://doi.org/10.1037/0022-3514.49.3.710
- Mojgan, F.H., Kadir, R.A., & Soheil, S. (2011). The relationship between state and trait anxiety and career indecision of undergraduatestudents. *International Education Studies*, 4(3), 31-135. https://doi.org/10.5539/ies.v4n3p31
- Mount, M. K., Barrick, M. R., Scullen, S. M., & Rounds, J. (2005). Higher-order dimensions of the big five personality traits and the big six vocational interest types. *Personal Psychology*, *58*(2), 447-478. https://doi.org/10.1111/j.1744-6570.2005.00468.x
- Nalbantoglu F. Y., & Gunduz, H. C. (2018a). Career indecision and career anxiety in high school students: An investigation through structural equation modelling. *Eurasian Journal of Educational Research*, 78(18), 23-41.
- Nalbantoglu F. Y., & Gunduz, H. C. (2018b). Lise öğrencilerinin kariyer kaygılarının çeşitli değişkenlere göre incelenmesi. [Investigation of career anxiety of high school students according to various variables] *Abant İzzet Baysal Üniversitesi Eğitim Fakültesi Dergisi*, 18(3), 1585-1602.
- Noyan, H., & Berk, H. Ö. S. (2007, July 5). Ergenlerde sosyal fobi, içe ve dışa dönük kişilik özellikleri ve okul başarı durumu [Social phobia, introverted and extroverted personality traits and school success in adolescents]. [Paper presentation]. 12. Ulusal Psikoloji Öğrencileri Kongresi, Yakın Doğu Üniversitesi, Kuzey Kıbrıs Türk Cumhuriyeti.
- Onay, M., & Uzel, U. (2011). Kişi-kültür uyumunun kariyer planlaması üzerindeki etkileri. [The effects of person-culture fit on career planning]. *Doğuş Üniversitesi Dergisi*, 12(2), 265-278.
- Özyürek, R. (2016). Kariyer psikolojik danışmanlığı kuramları: Çocuk ve ergenler için kariyer rehberliği uygulamaları. [Career counseling theories: Career guidance practices for children and adolescents] (2nd Ed.). Ankara: Nobel Yayıncılık.
- Page, J., Bruch, M. A., & Haase, R. F. (2008). Role of perfectionism and five-factor model traits in career indecision. *Personality and Individual Differences*, 45(8), 811-815. https://doi.org/10.1016/j.paid.2008.01.013
- Patton, W., & Creed, P. A. (2001). Developmental issues in career maturity and career decision status. The Career *Development Quarterly*, 49, 336-351. https://doi.org/10.1002/j.2161-0045.2001.tb00961.x
- Pen, L.T. (2016). Testing the joint roles of career decision self-efficacy and personality traits in the prediction of career indecision [Unpublished master's dissertation]. Faculty of the Graduate School of the University of Maryland, College Park.
- Pecjak, S., & Kosir, K. (2007). Personality, motivational factors and difficulties in career 161 decision-making in secondary school students. *Psihologijske Teme*, 16(1), 141-158.
- Pisarik, C.T., Rowell, P.C., & Thompson, L.K. (2017). A phenomenological study of career anxiety among college students. *National Career Development Association*, 65(4), 339-362. https://doi.org/10.1002/cdq.12112
- Rogers, M. E., Creed, P. A., & Glendon, A. I. (2008). The role of personality in adolescent career planning and exploration:

  A social cognitive perspective. *Journal of Vocational Behavior*, 73(1), 132-142. https://doi.org/10.1016/j.jvb.2008.02.002
- Saka, N., Gati, I., & Kelly, K. R. (2008). Emotional and personality-related aspects of career-decision-making difficulties. *Journal of Career Assessment*, 16(4), 403–424. https://doi.org/10.1177/1069072708318900
- Sarıçam, H. (2013). Psikoloji ve eğitimde kullanılan güncel ölçme araçları. [Contemporary measurement tools used in psychology and education] Ankara: Nobel Yayınevi.
- Seibert, S. E., & Kraimer, M. L. (2001). The five-factor model of personality and career success. *Journal of vocational behavior*, 58(1), 1-21. https://doi.org/10.1006/jvbe.2000.1757
- Shin, Y.J., & Lee, J.Y. (2019). Self-Focused Attention and Career Anxiety: The Mediating Role of Career Adaptability. *The Career Development Quarterly*, 67(2), 110-125. https://doi.org/10.1002/cdq.12175

- Şanlı Kula, K., & Saraç, T. (2016). Üniversite öğrencilerinin gelecek kaygısı. [Future anxiety of university students]. Mustafa Kemal Üniversitesi Sosyal Bilimler Enstitüsü Dergisi, 33(13), 227-242.
- Taylor, K. M., & Betz, N. E. (1983). Applications of self-efficacy theory to the understanding and treatment of career indecision. *Journal of Vocational Behavior*, 22(1), 63–81. https://doi.org/10.1016/0001-8791(83)90006-4
- Tsai, C. T., Hsu, H., & Hsu, Y. C. (2017). Tourism and hospitality college students' career anxiety: Scale development and validation. *Journal of Hospitality & Tourism Education*, 29(4), 158-165. https://doi.org/10.1080/10963758.2017.1382365
- Uysal, M., & Günay, S. (2001). Durbin-Watson ölçütüne göre kararsızlık bölgesinde bulunan negatif otokorelasyon için bazı testler. [Some tests for negative autocorrelation in the inconclusive area according to the Durbin-Watson criterion]. *Anadolu University Journal of Science and Technology*, 2(2), 277-284.
- Vignoli, E., Croity-Belz, S., Chapeland, V., Fillipis, A., & Garcia, M. (2005). Career exploration in adolescents: The role of anxiety, attachment and parenting style. *Journal of Vocational Behavior*, 67(2), 153-168. https://doi.org/10.1016/j.jvb.2004.08.006
- Vignoli, E. (2015). Career indecision and career exploration among older French dolescents: the specific role of general trait anxiety and future school and career anxiety. *Journal of Vocational Behavior*, 89, 182-191. https://doi.org/10.1016/j.jvb.2015.06.055
- Vreeke, L. J., & Muris, P. (2012). Relations between behavioral inhibition, big five personality factors, and anxiety disorder symptoms in non-clinical and clinically anxious children. *Child Psychiatry & Human Development*, 43(6), 884-894. https://doi.org/10.1007/s10578-012-0302-5
- Yam, F.C., & İlhan, T. (2016). Psikolojik danışma özyeterliliği: Kişilik özellikleri, kaygı düzeyleri ve geçmiş eğitim yaşantıları. [Counseling self-efficacy: Personality traits, anxiety levels and past educational experiences]. Uluslararası Sosyal Arastırmalar Dergisi, 42(8), 1304-1313.
- Yelboğa, A. (2006). Kişilik özellikleri ile iş performansı arasındaki ilişkinin incelenmesi. [Examining the relationship between personality traits and job performance]. İş, Güç, Endüstri İlişkileri ve İnsan Kaynakları Dergisi, 8(2), 1303-2860.
- Yeşilyaprak, B. (2019). Mesleki rehberlik ve kariyer danışmanlığı kuramdan uygulamaya. [Vocational guidance and career counseling from theory to practice]. (10th Ed.). Ankara: Pegem Akademi.
- Zırhlıoğlu, G., & Atlı, G. (2011). Beden eğitimi bölümü özel yetenek sınavı puanlarının akademik başarı üzerindeki yordama geçerliği. [Predictive validity of physical education department special talent exam scores on academic achievement]. *Eğitim ve Bilim*, 36(161), 176-185.
- Wang, N., Jome, L.M., Haase, R.F., & Bruch, M.A. (2006). The role of personality and career decision-making self-efficacy in the career choice commitment of college students. *Journal of Career Assessment*, 14(3), 312-332. https://doi.org/10.1177/1069072706286474