

Journal of Education and Future year: 2025, issue: 28, 15-30 DOI: 10.30786/jef.1480912



The Relationships between Love Styles and Satisfaction in Romantic Relationships: The Mediating Role of Intimacy

| Article Type | Received Date | Accepted Date |
|--------------|----------------------|---------------|
| Research | 9.05.2024 | 23.02.2025 |

Hülya Ercan^{*}

Ozan Korkmaz**

Fuad Bakioğlu***

Abstract

Romantic relationships are among the important elements that enrich human life. These relationships begin to be shaped during adolescence and serve an important developmental role in the young adulthood years. Love is a pervasive topic within the field of research on romantic relationships. Theories of love offer various explanations and classifications, one of which includes Lee's Colors of Love Theory. This study aims to examine the mediating role of intimacy in the relationship between love styles and relationship satisfaction in university students. The study group comprised 349 students, 267 (76.5%) women and 82 (23.5%) men. The participants' average age was 23.39 years (SD=4.57). Data were collected through the Love Attitudes Scale: Short Form, the Intimacy Scale in Romantic Relationships, the Relationship Assessment Scale, and the Personal Information Form. The hypothetical models designed in the study were tested using structural equation modeling. The findings suggest that eros and storge have a positive direct effect on relationship satisfaction, while mania has a negative effect. Intimacy plays a crucial role in romantic relationships. It serves as a mediator in the relationship between relationship satisfaction and ludus, agape, and storge. In conclusion, love styles other than pragma are important predictors of relationship satisfaction directly and/or through intimacy.

Keywords: Romantic relationships, relationship satisfaction, love styles, intimacy.

^{*} *Corresponding Author:* Assoc. Prof. Dr., Karamanoğlu Mehmetbey University, Faculty of Education, Department of Educational Science, Karaman, Türkiye. E-mail: hulya.ekin@gmail.com. https://orcid.org/ 0000-0002-0442-4121

^{**} Assoc. Prof. Dr., Karamanoğlu Mehmetbey University, Faculty of Education, Department of Educational Science, Karaman, Türkiye. E-mail: pd.ozankorkmaz@gmail.com. https://orcid.org/0000-0002-0541-200X

^{***} Assoc. Prof. Dr., Karamanoğlu Mehmetbey University, Faculty of Education, Department of Educational Science, Karaman, Türkiye. E-mail: fuadpdr@gmail.com. https://orcid.org/0000-0002-9905-6199

Romantik İlişkilerde Doyum ve Aşk Stilleri Arasındaki İlişki: Yakınlığın Aracı Rolü

| Makale Türü Araştırma | Başvuru Tarihi 9.05.2024 | Kabul Tarihi 23.02.2025 | | |
|---------------------------------|-----------------------------|--------------------------------|--|--|
| Hülya Ercan [*] | Ozan Korkmaz ^{**} | Fuad Bakioğlu*** | | |
| | Öz | | | |

Romantik ilişkiler, insan yaşamını zenginleştiren önemli unsurlar arasında yer alır. Bu ilişkiler ergenlik döneminde ortaya çıkmaya başlar ve genç yetişkinlik yıllarında önemli bir gelişimsel görevi yerine getirir. Romantik ilişkiler konusunda yapılan araştırmalarda daha çok aşk konusu ele alınır. Aşk konusundaki kuramlarda da farklı açıklamalar ileri sürülür ve farklı sınıflamalar yapılır. Sınıflamalardan biri, Lee'nin Aşkın Renkleri Kuramında geçer. Bu çalışmada, üniversite öğrencilerinin aşk stillerinin ilişki doyumunu yordamasında yakınlığın aracı rolü incelenmiştir. Çalışma grubunu 349 öğrenci oluşturmaktadır. Katılımcıların 267'si (%76.5) kadın, 82'si (%23.5) erkektir ve yaş ortalamaları 23.39'dur (SS=4.57). Verilerin toplanmasında Kişisel Bilgi Formu, Aşka İlişkin Tutumlar Ölçeği: Kısa Form, Romantik İlişkilerde Yakınlık ile İlişki Değerlendirme Ölçekleri kullanılmıştır. Araştırmanın hipotetik modelleri yapısal eşitlik modellemeleri ile test edilmiştir. Bulgulara göre tutkulu aşk ile arkadaşça aşk ilişki doyumu üzerinde pozitif etkiye sahipken sahiplenici aşk negatif etkiye sahiptir. Oyun gibi aşkta ve özgeci aşkta ilişki doyumunun tam aracısı olan yakınlık, arkadaşça aşkta kısmi aracıdır. Sonuç olarak mantıklı aşk dışındaki aşk stillerinin doğrudan ya da yakınlık aracılığı ile ilişki doyumunun önemli birer yordayıcısı olduğu söylenebilir.

Anahtar Sözcükler: Romantik ilişkiler, ilişki doyumu, aşk stilleri, yakınlık.

^{*} Sorumlu Yazar: Doç. Dr., Karamanoğlu Mehmetbey Üniversitesi, Eğitim Fakültesi, Eğitim Bilimleri Bölümü, Türkiye. E-posta: hulya.ekin@gmail.com. https://orcid.org/ 0000-0002-0442-4121

^{**} Doç. Dr., Karamanoğlu Mehmetbey Üniversitesi, Eğitim Fakültesi, Eğitim Bilimleri Bölümü, Karaman, Türkiye. E-posta: pd.ozankorkmaz@gmail.com. https://orcid.org/0000-0002-0541-200X

^{***} Doç. Dr., Karamanoğlu Mehmetbey Üniversitesi, Eğitim Fakültesi, Eğitim Bilimleri Bölümü, Rehberlik ve Psikolojik Danışmanlık Anabilim Dalı, Karaman, Türkiye. E-posta: fuadpdr@gmail.com. https://orcid.org/0000-0002-9905-6199

Introduction

Intimate relationships with others are among the basic human needs. Individuals' relationships with their parents, siblings, relatives, friends, partners, and spouses could greatly affect how loved, respected, and valued they feel. While relationships with parents, siblings, close relatives, and friends initially hold an important place in individuals' lives during the development process, adolescence years include relationships with romantic partners as well.

Relationships with a romantic partner may include dating, engagement, marriage, cohabitation, and other arrangements (Hendrick & Hendrick, 2006). While these relationships could provide support, love, health, and well-being, they could also lead to serious problems (Antonucci et al., 2001). Therefore, understanding relationship satisfaction and related variables is important for supporting individuals' development. Romantic relationship satisfaction refers to the quality of a romantic relationship. Although there is no precise definition, it generally represents an individual's perception and evaluation of their current relationship status (Collins & Read, 1990). Studies indicate that satisfaction in romantic relationships is associated with variables such as emotional intelligence (Jardine, Vannier, & Voyer, 2022), age (Bühler, Krauss, & Orth, 2021), perspective-taking (Cahill, Malouff, Little, & Schutte, 2020), the big five personality traits (Malouff, Thorsteinsson, Schutte, Bhullar, & Rooke, 2010), attachment (Candel & Turliuc, 2019), and empathic accuracy (Sened, Lavidor, Lazarus, Bar-Kalifa, Rafaeli, & Ickes, 2017). Love is another variable that is considered to be related to satisfaction in romantic relationships.

It is challenging to make a precise definition of the concept of love. Although love has biological foundations (Buss, 2023; Fisher, 2004, 2016), individuals' experiences, impressions, expectations, and behaviors are often influenced by contextual conditions (Myers & Shuts, 2002), which is also relevant for the theoretical explanations of love. In the field of evolutionary psychology, the concept of love is intertwined with the mechanisms of mate selection, emphasizing the behavioral expressions of affection (Buss, 1989; 1995). Neuropsychological explanations propose that all birds and mammals are equipped with three distinct emotional/motivational systems: lust, attraction, and attachment (Fisher, 2004; 2006). Attachment theory posits that love relationships are associated with the emotional bonds formed between infants and their caregivers (Hazan & Shaver, 1987; 1994). Some theories of love include classifications. The first explanation for differences and similarities in individuals' understanding of love comes from Zick Rubin (1970). Rubin (1970) distinguishes between liking for a friend and love for a lover. Liking involves positive evaluation, perceived similarity, respect, and trust, while loving involves attachment, caring, and intimacy. Elaine Hatfield categorizes love into passionate and companionate love, both of which have cognitive, emotional, and behavioral components. John A. Lee, whose perspective on love is the basis of this research, provided another categorization.

Lee (1974; 1988) defined three primary love styles in his theory, the Color Theory of Love, using a color analogy: passionate (eros), playful (ludus), and friendly (storge). He argued that their binary combination in different proportions gives rise to three secondary love styles: pragmatical (pragma), possessive (mania), and altruistic (agape). Lee believes that several other love styles combine various elements of the primary love styles in varying proportions. However, primary and secondary forms of love are the most encountered ones. According to Lee (1974; 1988), eros is characterized by strong emotions and usually begins with physical attraction. Individuals may list the physical characteristics they find attractive and sexual intimacy is important to them. They take risks in their relationships but avoid extremes. In ludus, individuals may view the relationship as a game, where the focus is on having fun and experiencing excitement. Just as individuals require specific strategies and skills when playing a game, the same applies to love relationships. If cheating can be done to win a game, cheating is also acceptable in love relationships. Ludic individuals may not be as passionate or committed in their relationships and may not demand commitment from their partner. The reason behind cheating is not related to sexuality. Instead, it is the individual's enjoyment of being able to engage in such behavior without getting caught. In storge, the bond grows gradually as partners share activities and interests. There is no set standard for an ideal partner. Sexuality is viewed as a form of self-disclosure and is typically expressed later in the relationship. Pragma emphasizes a pragmatic perspective. Individuals expect a positive and sustainable relationship based on certain criteria, such as social class, ethnicity, education level, income level, and religious beliefs. Passion and physical attraction are not considered. Mania is characterized by intense positive and negative emotions. Individuals feel euphoric and happy when their beloved is with them but hopeless and unhappy when they are apart. When individuals' expectations for attention are not met, they may experience feelings of jealousy and insecurity. Although they may have significant issues, they cannot afford to separate. Agape is defined by strong emotions, patience, and perseverance. The lover prioritizes the well-being and happiness of their beloved above all else, accepting and loving them despite their flaws. They are generous and selfless in their relationships. Lee (1974) suggests that people's perception of love is influenced by their childhood experiences, socialization processes, lifestyle, and personality traits. Furthermore, as individuals' values and ideals evolve, so do their love styles. In addition to Lee, Robert J. Sternberg is another notable figure in the field of love studies.

In his Triangular Love Theory, Sternberg (1986, 1988, 1998) emphasizes the importance of intimacy, passion, and commitment as the basic components that define different love styles. According to Sternberg, the passion component relates to romance, physical attraction, and sexuality. The commitment component refers to the decision to love and remain dedicated to the partner to sustain the relationship. The intimacy component involves sharing, self-disclosure, and emotional support. Sternberg states that the ratio of these three components in a relationship determines eight different love styles: liking, passion, empty love, romantic love, companionate love, foolish love, consummate love, and no love. The perfect love is the love style in which intimacy, commitment, and passion are balanced. Everyone seeks consummate love, but it is difficult to achieve and maintain. For this reason, individuals strive for love that is closest to consummate. As Sternberg states, intimacy is a crucial element of love and can be considered one of the main determinants of satisfaction in romantic relationships.

As highlighted by the various definitions and measurement tools used to study intimacy, the concept of intimacy lacks clear boundaries in the field of psychology (Moss & Schwebel, 1993; Prager, 1994). Intimacy is discussed from such a broad perspective, which may be related to the diversity of individuals' experiences, differences in the perceptions and expressions of experiences, and cultural elements (Ercan, 2019). However, in all situations, intimacy is an important aspect of romantic relationships. For this reason, the execution of studies on intimacy is essential for the comprehension of individuals' romantic relationships and the characterization of these relationships.

The individuals' satisfaction with their relationships may be influenced by their love styles. Besides, as suggested by Sternberg (1986), the elements and ratios in a romantic relationship can affect the satisfaction obtained from it. Partners' feelings, thoughts, and behaviors in the early stages of romantic relationships may predict their feelings, thoughts, and behaviors in the later stages of their relationships and perhaps in their marriages (Axinn & Thornton, 1993). Individuals' subjective wellbeing increases when they find satisfaction in their relationships (Das & Bapu, 2024; Demistas & Tezer, 2012; Tepeli Temiz & Elsharnouby, 2022); their satisfaction with life improves (Proulx, Helms, & Buehler, 2007; Yam, 2023; Yancey & Berglass, 1991); and health indicators are positively affected (Bookwala, 2005; Robles, Slatcher, Trombello, & McGinn, 2014). The opposite occurs when they are dissatisfied with the relationships and for identifying factors that could increase the risk of terminating the relationship (Karney & Bradbury, 1995). The primary objective of this study is to examine the hypothetical model positing that the love styles of university students predict relationship satisfaction both directly and through the level of intimacy in romantic relationships.

There are two basic hypotheses in the study:

1) Love styles significantly predict relationship satisfaction.

2) Intimacy has a mediating role between love styles and relationship satisfaction.

Figure 1 displays the hypothetical model developed to test these hypotheses.

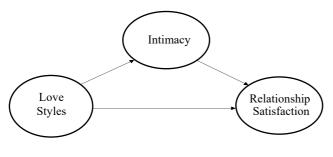


Figure 1. Hypothetical model

Method

Research Design

This study was designed using a correlational model to examine the mediating role of intimacy in the relationship between love styles and romantic relationship satisfaction among university students (Büyüköztürk et al., 2019). The research focused on relationship satisfaction as the dependent variable, love styles as the independent variable, and intimacy as the mediating variable in the relationship between love styles and romantic relationship satisfaction.

Study Group

The study group was selected using a convenience sampling technique, which involved including volunteers who were believed to possess specific characteristics under investigation (Johnson & Cristensen, 2019). Research data were collected from voluntary participants via an online form, which included 349 university students in the study. While 267 (76.5%) of the participants were women, 82 (23.5%) were men, and their ages ranged from 18 to 40 (Mean=23.39, SD=4.57). Their relationship status showed that 63% of the participants (N= 220) had a date, partner, or fiancée. Of all the participants, 33% (N=115) reported being separated from their partners and 4% (N=14) reported being married. The participants were asked about the number of romantic relationships they have had to date, which was found to range from 1 to 13 (Mean= 2.54, SD=2.23).

Research Instruments

The Love Attitudes Scale: Short form

The scale, originally developed by Hendrick et al. (1998), was designed to measure the six love styles suggested by Lee (1973). The scale was later adapted into Turkish by Büyükşahin and Hovardaoğlu (2004). The 24-item scale is responded on a 5-point Likert scale. Four to 20 points can be received for each love style in the scale. Higher scores in the sub-scales indicate that the characteristics of the love style relevant to the specific sub-scale are more prominent. Internal consistency was assessed by calculating Cronbach's alpha for the sub-scales in this study. The results were as follows: .80 for agape, .83 for storge, .72 for eros, .70 for pragma, .78 for ludus, and .75 for mania.

Intimacy Scale in Romantic Relationships

Ercan (2019) developed the scale to measure the level of intimacy in romantic relationships. The scale includes four sub-scales: self-disclosure, physical attraction, support, and trust. Each sub-scale consists of four items, making a total of 16 items on the scale. The 16-item scale is responded on a 4-point Likert scale. The total score to be obtained from the scale ranges from 16 to 64, with higher scores indicating more intimacy and lower scores indicating less intimacy. The internal consistency coefficient for the total score was calculated using Cronbach's alpha and was found to be .92 in this study.

Relationship Assessment Scale.

Hendrick (1988) developed the scale to measure romantic relationship satisfaction between individuals. The scale was adapted into Turkish by Curun (2001). Scores to be obtained from the scale range from 7 to 49, with higher scores indicating greater satisfaction within the relationship. In this

study, Cronbach's alpha coefficient was calculated to evaluate the internal consistency of the scale, which was found to be .90.

Personal Information Form

The participants were asked to fill out the Personal Information Form by providing information regarding their gender, age, relationship status, and number of relationships.

Data Analysis

During the analysis phase, the distribution of the data was analyzed using the kurtosis and skewness values. According to Tabachnick and Fidell (2012), these values should be within ± 1.5 . The kurtosis and skewness values calculated for the scores were found to meet this criterion (see Table 1), indicating that the scores demonstrate normal distribution. Descriptive statistics and Pearson correlation coefficients were calculated for the scores. Besides, structural equation modeling was used to test the hypothetical research model. In structural equation modeling, the mediating roles of intimacy were examined in the relationships between love styles and relationship satisfaction. When the model fit of the constructed structural equation model $\chi^2/df < .5$; CFI, GFI > .90 was analyzed; RMSEA < .10 was considered as a criterion (Tabachnick & Fidell, 2012). The bootstrapping method (10,000 resampling) was preferred to examine the significance of the mediating role of intimacy in romantic relationships. For the mediation in the model to be considered significant, it was determined that the confidence intervals should not include zero (Hayes, 2013). The analyses were conducted using IBM SPSS 28 and IBM AMOS 24.

Ethical Procedures

Before the study was conducted, all the participants were given an informed consent form and told that participation was on voluntary basis. The study followed the Declaration of Helsinki guidelines set out in 1975. Prior to the study, ethics committee approval was obtained from the institution where the corresponding author was affiliated (Social and Human Sciences Ethics Committee of Karamanoğlu Mehmetbey University).

Results

Table 1 displays the Pearson correlation coefficient values and descriptive statistics for the variables that were analyzed in the study.

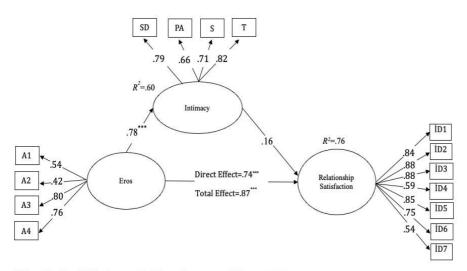
| Variables | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------------------------|--------|--------|--------|--------|--------|-------|--------|-------|
| 1. Eros | 1.00 | | | | | | | |
| 2. Ludus | -18*** | | | | | | | |
| 3. Storge | .35*** | 05 | | | | | | |
| 4. Mania | .06 | .18*** | .01 | | | | | |
| 5. Agape | .38*** | .02 | .23*** | .41*** | | | | |
| 6. Pragma | .05 | .11* | .11* | .11* | .08 | | | |
| 7. Intimacy | .62*** | 21*** | .28*** | 04 | .32*** | 02 | | |
| 8. Relationship Satisfaction | .73*** | 15*** | .30*** | 12* | .29*** | 04 | .63*** | |
| Mean | 14.61 | 9.78 | 12.01 | 12.95 | 11.85 | 12.48 | 51.99 | 34.85 |
| Standard Deviation | 2.96 | 2.69 | 4.14 | 2.88 | 3.64 | 3.34 | 8.65 | 9.64 |
| Kurtosis | 34 | 28 | 58 | 54 | 58 | 49 | .03 | 17 |
| Skewness | 24 | .13 | .12 | .25 | .12 | 15 | 67 | 71 |
| Reliabilities | .72 | .78 | .83 | .75 | .80 | .70 | .92 | .90 |

 Table 1. Pearson correlation coefficients and descriptive statistics for variables

Note: N = 349.

*p<.05, ***p<.001.

Table 1 demonstrates that significant relationships exist between eros, ludus, storge, and agape styles and intimacy and relationship satisfaction in romantic relationships. However, the pragma love style does not show a significant relationship with either intimacy or relationship satisfaction. Additionally, the mania love style does not show a significant relationship with intimacy in romantic relationships. It is important to highlight the positive and significant correlation between intimacy and relationship satisfaction in romantic relationships (r=.63, p <.001). The structural equation modeling findings, which include significant relationships among the variables in the hypothetical research model, are presented below. First, the model with eros, one of the primary love styles, was tested (Figure 2).



***p<.001, SD: Self-disclosure, PA: Physical attraction, S: Support, T: Trust.

Figure 2. Findings Regarding the Model (Eros)

The model presented in Figure 2 exhibits goodness of fit indices within acceptable limits $[\chi 2=303.252, df=87, p<.001, \chi 2/df=3.61; GFI=.901; CFI=.928; RMSEA=.087]$. According to the model, eros style directly and positively predicts intimacy in romantic relationships (β =.78, p<.001) and relationship satisfaction (β =.74, p<.001). However, eros style does not seem to predict relationship satisfaction through intimacy in romantic relationships. In other words, the eros style does not have a significant indirect effect on relationship satisfaction. Therefore, intimacy in romantic relationships does not mediate the relationship between eros style and relationship satisfaction. Table 2 presents the confidence interval values.

| Pathway | В | S.E. | C.R. | Coefficient | CI Lower-bound | CI Upper-bound |
|---|------|------|------|-------------|-------------------|-------------------|
| $\begin{array}{c} \textit{Total Effect} \\ \text{Eros} \rightarrow \text{RS} \end{array}$ | | | | .87*** | .81 | .91 |
| Direct Effects Eros \rightarrow RS | 1.14 | .15 | .86 | .74*** | .58 | .93 |
| $Eros \rightarrow Int$ | 1.35 | .13 | .54 | .78*** | .71 | .84 |
| Int \rightarrow RS | .15 | .07 | .98 | .16 | 04 | .34 |
| Indirect Effect Eros \rightarrow Int \rightarrow RS | | | | .13 | 03 | .26 |

 Table 2. Findings Regarding Mediation Analysis (Eros)

***p < .001; N = 349.

Note: CI: 95% Confidence Intervals; RS: Relationship Satisfaction; Int: Intimacy.

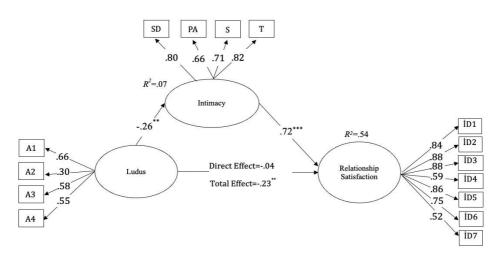


Figure 3 displays the results of the ludus style model, which is one form of love.

p<.01, *p<.001, SD: Self-disclosure, PA: Physical attraction, S: Support, T: Trust.

Figure 3. Findings Regarding the Model (Ludus)

The model presented in Figure 3 has goodness of fit values that fall within acceptable limits $[\chi 2=273.514, df=85, p<.001, \chi 2/df=3.22; GFI=.906; CFI=.927; RMSEA=.080]$. Specifically, the ludus style seems to have a negative effect on intimacy in romantic relationships (β =-.26, p<.01). However, the ludus style does not seem to directly predict relationship satisfaction to a significant degree. Instead, the ludus style seems to affect relationship satisfaction indirectly through its effect on relationship satisfaction (β =-.19, p<.01). Thus, in romantic relationships, intimacy has a mediating role in the association between ludus style and relationship satisfaction. Table 3 presents the confidence interval values.

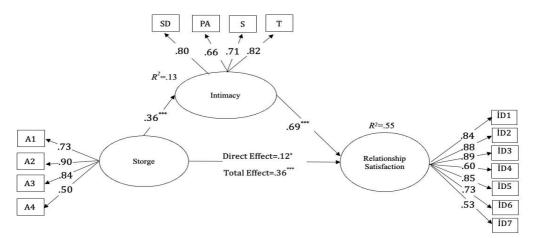
| Pathways | В | S.E. | C.R. | Coefficient | CL | CL |
|--|-----|------|------|-------------|-------------|-------------|
| | | | | | Lower-bound | Upper-bound |
| Total Effect | | | | | | |
| Ludus \rightarrow RS | | | | 23** | 35 | 11 |
| Direct Effects | | | | | | |
| $Ludus \rightarrow RS$ | 07 | .11 | .70 | .04 | 14 | .07 |
| $Ludus \rightarrow Int$ | 55 | .17 | 3.28 | 26** | 41 | 11 |
| Int \rightarrow RS | .64 | .06 | .83 | .72*** | .64 | .80 |
| Indirect Effect | | | | | | |
| Ludus \rightarrow Int \rightarrow RS | | | | 19** | 31 | 08 |

 Table 3. Findings Regarding Mediation Analysis (Ludus)

 $^{**}p < .01; ^{***}p < .001; N = 349.$

Note: CI: 95% Confidence Intervals; RS: Relationship Satisfaction; Int: Intimacy.

Figure 4 presents the results of the model created using storge, one of the forms of love.



*p<.05, ***p<.001, SD: Self-disclosure, PA: Physical attraction, S: Support, T: Trust.

Figure 4. Findings Regarding the Model (Storge)

The model in Figure 4 has goodness of fit values that fall within acceptable limits [$\chi 2=262.848$, df=87, p<.001, $\chi 2$ /df=3.02; GFI=.906; CFI=.942; RMSEA=.076]. According to the model, storge style has a direct and positive effect on intimacy in romantic relationships (β =.36, p<.001) and relationship satisfaction (β =.12, p<.05). It was also found that storge style affected relationship satisfaction through intimacy in romantic relationships, which means that the indirect effect of storge style on relationship satisfaction is significant (β =.25, p<.001). Hence, in romantic relationships, intimacy plays a mediating role in the association between the storge style and relationship satisfaction. Table 4 displays the confidence interval values.

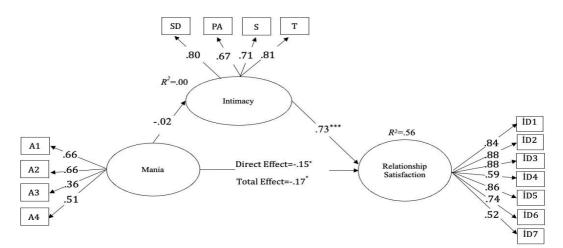
| Pathways | В | S.E. | C.R. | Coefficient | CL Lower-bound | CL Upper-bound |
|---|-----|------|------|-------------|-------------------|-------------------|
| Total Effect | | | | | | |
| Storge \rightarrow RS | | | | .36*** | .27 | .45 |
| Direct Effects | | | | | | |
| Storge \rightarrow RS | .27 | .11 | .35 | .12* | .04 | .20 |
| Storge \rightarrow Int | .92 | .18 | .05 | .36*** | .26 | .45 |
| Int \rightarrow RS | .61 | .06 | 0.47 | .69*** | .60 | .77 |
| Indirect Effect | | | | | | |
| Storge \rightarrow Int \rightarrow RS | | | | .25*** | .18 | .32 |

 Table 4. Findings Regarding Mediation Analysis (Storge)

*p < .05; ****p < .001; N = 349.

Note: CI: 95% Confidence Intervals; RS: Relationship Satisfaction; Int: Intimacy.

Figure 5 presents the results of the model, which was created using mania as one of the love styles.



*p<.05, ***p<.001, SD: Self-disclosure, PA: Physical attraction, S: Support, T: Trust.

Figure 5. Findings Regarding the Model (Mania)

The model in Figure 5 has goodness of fit values that fall within acceptable limits [$\chi 2=242.565$, df=85, p<.001, $\chi 2$ /df=2.85; GFI=.915; CFI=.937; RMSEA=.073]. This model indicates that mania style does not predict intimacy in romantic relationships. However, the mania style exerts a direct, negative, and significant effect on relationship satisfaction (β =-.15, p<.05). On the other hand, intimacy affects relationship satisfaction in romantic relationships directly, positively, and significantly (β =.73, p<.001). The findings suggest that intimacy in romantic relationships does not mediate the relationship between mania style and relationship satisfaction. Table 5 presents the confidence interval values.

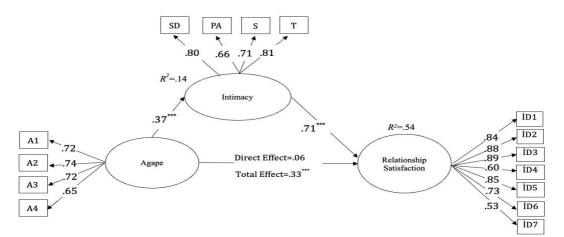
| Pathways | В | S.E. | C. R. | Coefficient | CI Lower-bound | CI Upper-bound |
|--|-----|------|-------|-------------|-------------------|-------------------|
| Total Effect | | | | | | |
| Mania \rightarrow RS | | | | 17* | 29 | 04 |
| Direct Effects | | | | | | |
| Mania \rightarrow RS | 34 | .13 | -2.69 | 15* | 26 | 05 |
| Mania \rightarrow Int | 05 | .19 | 26 | 02 | 16 | .12 |
| Int \rightarrow RS | .64 | .06 | 11.22 | .73*** | .65 | .79 |
| Indirect Effect | | | | | | |
| Mania \rightarrow Int \rightarrow RS | | | | 01 | 12 | .09 |

 Table 5. Findings Regarding Mediation Analysis (Mania)

*p < .05; ****p < .001; N = 349.

Note: CI: 95% Confidence Intervals; RS: Relationship Satisfaction; Int: Intimacy.

Figure 6 presents the findings of the model created using agape, one of the love styles.



***p<.001, SD: Self-disclosure, PA: Physical attraction, S: Support, T: Trust.

Figure 6. Findings Regarding the Model (Agape)

The fit indices for the model depicted in Figure 6 fall within acceptable ranges [$\chi 2$ = 269.950, df=87, p<.001, $\chi 2$ /df=3.10; GFI=.905; CFI=.935; RMSEA=.078]. The model indicates that agape style positively predicts intimacy in romantic relationships (β =.37, p<.001). However, the agape style does not predict relationship satisfaction directly and significantly. Instead, the agape style seems to predict relationship satisfaction indirectly through intimacy in romantic relationships. In other words, the indirect effect of agape style on relationship satisfaction is significant (β =.27, p<.001). Thus, in romantic relationships, intimacy plays a mediating role in the association between the agape style and relationship satisfaction. Table 6 presents the confidence interval values.

| Pathways | В | S.E. | C.R | Coefficient | CL Lower-bound | CL Upper-bound |
|---|------------|------------|------------|------------------|-------------------|-------------------|
| Total Effect Agape $\rightarrow RS$ | | | | .33*** | .23 | .42 |
| Direct Effects Agape $\rightarrow RS$ | .11 | .09 | .19 | .06 | 02 | .15 |
| Agape \rightarrow Int Int \rightarrow RS | .73 .63 | .14 .06 | .33 .44 | .37*** .71*** | .27 .62 | .47 .79 |
| Indirect Effect Agape \rightarrow Int \rightarrow RS | | | | .27*** | .19 | .35 |

Table 6. Findings Regarding Mediation Analysis (Agape)

 $^{***}p < .001; N = 349.$

Note: CI: 95% Confidence Intervals; RS: Relationship Satisfaction; Int: Intimacy.

Discussion, Conclusion and Recommendations

This study explored whether university students' love styles could predict relationship satisfaction depending on the degree of intimacy in romantic relationships. The results indicate that while eros style and storge style have a positive direct effect on relationship satisfaction, mania style has a negative effect. In addition, intimacy serves as a mediator in the relationship between relationship satisfaction and the ludus, agape, and storge styles. It was found that love styles other than pragma could predict relationship satisfaction both directly and through the degree of intimacy in romantic relationships. The findings regarding the prediction of relationship satisfaction through intimacy in direct and romantic relationships by eros, ludus, storge, mania, and agape are discussed below.

The initial model showed that the eros style had a direct and positive effect on relationship satisfaction. However, it was found that intimacy did not mediate the prediction of relationship satisfaction. Previous studies also reported that eros style positively predicted relationship satisfaction (Beştav, 2007; Budak, 2011; Fricker & Moore, 2002; Gana, Saada, & Untas, 2013; Goodboy & Booth-Butterfield, 2009; Morrow, Clark, & Brock 1995; Rohmann, Führer, & Bierhoff, 2016; Türk & Yıldız, 2017; Uysal, 2016; Vedes, Hilpert, Nussbeck, Randall, Bodenmann, & Lind, 2016). The lack of a mediating effect of intimacy suggests that relationship satisfaction in eros style may be associated with strong emotions and physical attraction (Lee, 1974; 1988).

This study indicated that the ludus style did not directly predict relationship satisfaction in the second model tested. However, the data showed that intimacy had a full mediating effect in the prediction of relationship satisfaction. The participants' relationship satisfaction increased as their levels of ludus decreased, through their levels of intimacy. Previous studies found that ludus had a negative effect on relationship satisfaction (Bestav, 2007; Budak, 2011; Fricker & Moore, 2002; Türk & Yıldız, 2017; Uysal, 2016; Vedes et al., 2016). The finding that intimacy within the ludus style functions as a crucial mediator of relationship satisfaction is of utmost importance, representing a groundbreaking revelation in this area of study. In the ludus style, individuals perceive their relationship as a game or source of entertainment. This approach often entails having multiple partners at the same time and a lack of commitment to any specific relationship (Lee, 1974; 1988). These characteristics could have a detrimental effect on partners' ability to trust each other, communicate openly, and seek support, when necessary, thereby impeding the development of intimacy. It is worth noting that this love style is generally regarded as undesirable. According to Lee (1974; 1988), the ludus style involves viewing relationships as a game or entertainment tool, accepting the possibility of having multiple partners simultaneously and having a low commitment to the relationship. These characteristics are generally considered negative. This leads to low commitment to the relationship, which can negatively affect partners' ability to trust each other, open up to each other, and ask for support when needed. However, increasing intimacy in individuals with ludus may also improve low relationship satisfaction caused by ludus. In romantic relationships, intimacy can transform the negative effect of ludic love on relationship satisfaction. This transformation leads to the evolution of ludus style into other forms of love.

This study tested a third model and found that storge style had a positive effect on both relationship satisfaction and intimacy. Intimacy was also found to partially mediate the relationship between storge style and relationship satisfaction. Therefore, an increase in storge levels led to an increase in both relationship satisfaction and intimacy. Although Uysal (2016) found that storge did not predict relationship satisfaction, the findings of other studies (Beştav, 2007; Rohmann et al., 2016; Türk & Yıldız, 2017) support this result. Storge style is characterized by the slow development of relationships, shared interests and activities, and stability (Lee, 1974; 1988). While passion may not be a prominent feature of this love style, relationship satisfaction could still be influenced by factors such as similarity and closeness. These factors can aid in individuals' understanding of each other and in resolving conflicts.

The fourth model test concluded that mania style has a direct and negative effect on relationship satisfaction. The analysis indicated that intimacy did not act as a mediator in the relationship between the two variables. This discovery aligns with prior research indicating that a mania style is inversely correlated with relationship satisfaction. (Budak, 2011; Rohmann et al., 2016). However, some studies suggest that mania does not predict relationship satisfaction (Beştav, 2007), or it predicts it positively (Uysal, 2016). Mania involves showing intense attention to the lover and demanding the same level of attention in return. When this expectation is not met, feelings of jealousy and insecurity may arise. Individuals may experience fear of losing their partner and may be reluctant to end the relationship even if it fails to meet their expectations. The presence of these adverse attributes suggests that a manic interpersonal style is anticipated to yield a detrimental effect on the level of satisfaction within relationships. Consequently, it can be inferred that the results of this study are consistent with the foundational theoretical frameworks. Nonetheless, it is imperative to acknowledge that the research results may exhibit nuances contingent upon the specific attributes of the demographic cohorts from which the data were sourced. It is noteworthy that individuals exhibiting manic traits typically experience heightened relationship contentment when paired with partners exemplifying altruistic tendencies.

The last model tested in this study concluded that the agape style did not directly predict relationship satisfaction. However, intimacy had a full mediating effect on predicting relationship satisfaction. As participants' agape levels increase, their relationship satisfaction increases through their levels of intimacy. The literature presents conflicting findings regarding the relationship between agape style and relationship satisfaction. While some studies suggested a positive correlation (Budak, 2011; Rohman et al., 2016; Uysal, 2016; Vedes et al., 2016), others found no such correlation (Beştav, 2007). Agapic lovers prioritize the well-being and happiness of their partners, exhibiting selflessness and generosity without expecting anything in return (Lee, 1974; 1988). These characteristics serve an important function in establishing intimacy with partners and may lead to increased satisfaction in romantic relationships.

This study found that only the pragma style did not directly predict relationship satisfaction or mediate intimacy. This discovery aligns with prior studies (Beştav, 2007; Budak, 2011; Rohman et al., 2016; Taghavi Dinani et al., 2014; Uysal 2016). Pragma is dominated by a pragmatic perspective, where individuals expect partners to meet certain criteria (Lee, 1974; 1988). It may be argued that this feature, which is mostly encountered in regulated relationships, does not meet the characteristics that individuals seek to obtain satisfaction from their relationships in today's conditions. However, if an arranged relationship persists, intimacy can be established, and relationship satisfaction may increase. However, the nature of this type of love does not support the establishment of intimacy in the early stages of a relationship. Therefore, considering the developmental characteristics of the research group, the possibility of not being part of a long-standing arranged relationship with no built intimacy may have played a role in the emergence of this result. In addition, pragma style did not predict relationship satisfaction, which may be an indication that collectivist values and arranged relationships are not idealized among undergraduate students.

Finally, some recommendations could be given to researchers and practitioners for future studies. Firstly, the study could be conducted with a distinction between actors and partners. Secondly, data could be collected from a wider age range, and comparisons could be made considering both relationship duration and relationship status. Thirdly, cross-cultural comparison studies could be conducted to reveal similarities and differences between cultures. Lastly, the existing information unit could be used in counseling and couple therapies before marriage.

References

- Antonucci, T. C., Lansford, J. E., & Akiyama, H. (2001). Impact of positive and negative aspects of marital relationships and friendships on well-being of older adults. *Applied Developmental Science*, 5(2), 68-75. https://doi.org/10.1207/S1532480XADS0502_2
- Axinn, W. G., & Thornton, A. (1993). Mothers, children, and cohabitation: The intergenerational effects of attitudes and behavior. *American Sociological Review*, 233246.
- Beştav, F. G. (2007). Romantik ilişki doyumu ile cinsiyet, bağlanma stilleri, rasyonel olmayan inançlar ve aşka ilişkin tutumlar arasındaki ilişkilerin incelenmesi [The association of romantic relationship satisfaction with gender, attachment styles, irrational beliefs, and love attitudes]. (Unpublished Master Thesis), Hacettepe University, Institute of Social Sciences, Psychology, Social Psychology, Ankara.
- Bookwala, J. (2005). The role of marital quality in physical health during the mature years. *Journal of aging and health*, *17*(1), 85-104. https://doi.org/10.1177/0898264304272794
- Budak, B. (2011). Üniversite öğrencilerinin aşka ilişkin tutumları ve ilişki doyumlarının kişilik özellikleri ile ilişkisi [Attitudes of university students towards love and the relationship of relation satisfaction with personality traits]. (Unpublished Master Thesis), Gazi University, Institute of Educational Sciences, Education Sciences, Psychological Counseling and Guidance, Ankara.
- Buss, D. M. (1989). Sex differences in human mate preferences: Evolutionary hypotheses tested in 37 cultures. *Behavioral and Brain*, *12*(1), 1-49.
- Buss, D. M. (1995). Psychological sex differences: Origins through sexual selection. *American Psychologist*, 50 (3), 164-168
- Buss, D. M. (2023). The Oxford handbook of human mating. New York: Oxford University Press.

- Bühler, J. L., Krauss, S., & Orth, U. (2021). Development of relationship satisfaction across the life span: A systematic review and meta-analysis. *Psychological Bulletin*, 147(10), 1012–1053. https://doi.org/10.1037/bul0000342
- Büyüköztürk, Ş., Kılıç Çakmak, E., Akgün, Ö. Karadeniz, Ş. & Demirel, F. (2019). Eğitimde bilimsel araştırma yöntemleri (Scientific research methods in education). Ankara: Pegem Academy Publishing.
- Büyükşahin, A., & Hovardaoğlu, S. (2004). Çiftlerin aşka ilişkin tutumlarının Lee'nin Çok Boyutlu Aşk Biçimleri kapsamında incelenmesi (A study of couples' love attitudes within Lee's multidimensional love styles framework). *Turkish Journal of Psychology*, 19(54), 59-75.
- Cahill, V. A., Malouff, J. M., Little, C. W., & Schutte, N. S. (2020). Trait perspective taking and romantic relationship satisfaction: A meta-analysis. *Journal of Family Psychology*, 34(8), 1025– 1035. https://doi.org/10.1037/fam0000661
- Candel, O. S., & Turliuc, M. N. (2019). Insecure attachment and relationship satisfaction: A meta-analysis of actor and partner associations. *Personality and Individual Differences*, 147, 190-199. https://doi.org/10.1016/j.paid.2019.04.037
- Collins, N. L., & Read, S. J. (1990). Adult attachment, working models, and relationship quality in dating couples. *Journal of personality and social psychology*, 58(4), 644.
- Curun, F. (2001). *The effects of sexism and sex role orientation on relationship satisfaction*. (Unpublished Master Thesis), Middle East Technical University, Institute of Social Sciences, Psychology, Ankara.
- Das, N., & Bapu, K. V. (2024). Psychological Well-being, Relationship Satisfaction and Adjustment among Partners Involved in Inter-religious Romantic Relationship. *Indian Journal of Health and Wellbeing*, 15(1), 62-68.
- Demirtas, S. C., & Tezer, E. (2012). Romantic relationship satisfaction, commitment to career choices and subjective well-being. *Procedia-Social and Behavioral Sciences*, 46, 2542-2549.
- Ercan, H. (2019). Romantik İlişkilerde Yakınlık Ölçeği geliştirme çalışması (A study on developing Intimacy Scale in Romantic Relationships). *OPUS International Journal of Society Research*, *11*(18), 205-231.
- Erikson, E. H. (1963). Childhood and society. New York: Norton & Company.
- Erikson, E. H. (1968). Identity: Youth and crisis. New York: Norton & Company.
- Fisher, H. (2006). The drive to love: The neural mechanism for mate selection. In. R. J. Sternberg & K. Weis (Eds.), *The new psychology of love* (pp.87-115). New Haven: Yale University Press.
- Fisher, H. (2009). Why him? Why her? New York: Henry Hold and Company.
- Fisher, H. (2016). Anatomy of love: a natural history of mating marriage and why we stray. New York: Norton & Company.
- Fricker, J., & Moore, S. (2002). Relationship satisfaction: The role of love styles and attachment styles. *Current Research in Social Psychology*, 7(11), 182-204.
- Gana, K., Saada, Y., & Untas, A. (2013). Effects of love styles on marital satisfaction in heterosexual couples: A dyadic approach. *Marriage & Family Review*, 49 (8), 754-772.
- Goodboy, A. K., & Booth-Butterfield, M. (2009). Love styles and desire for closeness in romantic relationships. *Psychological Reports*, *105*(1), 191-197.
- Hayes, A. F. (2013). Introduction to mediation, moderation, and conditional process and analysis: A regressionbased approach. New York: Guilford Press.
- Hazan, C. & Shaver, P. R. (1987). Romantic love conceptualized as an attachment process. *Journal of Personality* and Social Psychology, 52(3), 511-524.
- Hazan, C. & Shaver, P. R. (1994). Attachment as an organizational framework for research on close relationships. *Psychological Inquiry*, 5(1), 1-22.
- Hendrick, S. S. (1988). A generic measure of relationship satisfaction. *Journal of Marriage and the Family*, 50(1), 93-98. https://doi.org/10.2307/352430
- Hendrick, S. S., & Hendrick, C. (2006). Measuring respect in close relationships. Journal of Social and Personal Relationships, 23(6), 881-899.

- Hendrick, C., Hendrick, S.S., & Dicke, A. (1998). The Love Attitudes Scale: Short form. *Journal of Social and Personal Relationships*, 15(2), 147-159. https://doi.org/10.1177/026540759815
- Jardine, B. B., Vannier, S., & Voyer, D. (2022). Emotional intelligence and romantic relationship satisfaction: A systematic review and meta-analysis. *Personality and individual differences*, 196, 111713. https://doi.org/10.1016/j.paid.2022.111713
- Johnson, R. B. & Christensen, L. (2019). Educational research: quantitative, qualitative, and mixed approaches. Washington: Sage Pub.
- Karney, B. R., & Bradbury, T. N. (1995). The longitudinal course of marital quality and stability: A review of theory, methods, and research. *Psychological Bulletin*, 118(1), 3-34.
- Lee, J. A. (1973). The Colors of Love: An exploration of the ways of loving. Toronto: New Press.
- Lee. J. A. (1974). The styles of loving. Psychology Today, October, 44-51.
- Lee. J. A. (1988). Love styles. In R.J. Sternberg & M. L. Barnes (Eds.). *The psychology of love* (p.38-67). New Haven: Yale University.
- Malouff, J. M., Thorsteinsson, E. B., Schutte, N. S., Bhullar, N., & Rooke, S. E. (2010). The five-factor model of personality and relationship satisfaction of intimate partners: A meta-analysis. *Journal of Research in Personality*, 44(1), 124-127. https://doi.org/10.1016/j.jrp.2009.09.004
- Morrow, G. D., Clark, E. M., & Brock, K. F. (1995). Individual and partner love styles: Implications for the quality of romantic involvements. *Journal of Social and Personal Relationships*, *12*(3), 363-387.
- Moss, B. F. & Schwebel, A. I. (1993). Defining intimacy in romantic relationships. *Family Relations*, 42(1), 31-37.
- Myers, J. E., & Shurts, W. M. (2002). Measuring positive emotionality: A review of instruments assessing love. *Measurement and Evaluation in Counseling and Development*, 34 (4), 238-254. https://doi.org/10.1080/07481756.2002.12069040
- Prager, K.J. (1995). The psychology of intimacy. New York: The Guilford Press.
- Proulx, C. M., Helms, H. M., & Buehler, C. (2007). Marital quality and personal well-being: A metaanalysis. Journal of Marriage and Family, 69(3), 576-593.
- Robles, T. F., Slatcher, R. B., Trombello, J. M., & McGinn, M. M. (2014). Marital quality and health: a metaanalytic review. *Psychological Bulletin*, 140(1), 140. https://doi.org/10.1037/a0031859.
- Rohmann, E., Führer, A., & Bierhoff, H. W. (2016). Relationship satisfaction across European cultures: The role of love styles. *Cross-Cultural Research*, *50*(2), 178-211.
- Rubin. Z. (1970). Measurement of romantic love. Journal of Personality and Social Psychology, 16(2), 265-273.
- Sened, H., Lavidor, M., Lazarus, G., Bar-Kalifa, E., Rafaeli, E., & Ickes, W. (2017). Empathic accuracy and relationship satisfaction: A meta-analytic review. *Journal of Family Psychology*, 31(6), 742. http://dx.doi.org/10.1037/fam0000320
- Sternberg. R. J. (1986). A Triangular Theory of Love. Psychological Review, 93(2), 119-135.
- Sullivan, H. S. (1953). Interpersonal theory of psychiatry. New York: Norton.
- Tabachnick, B. G., & Fidell, L. S. (2012). Using multivariate statistics. Boston: Pearson.
- Taghavi Dinani, P., Samkhaniyan, E., Hamidi, M., & Arkiyan, F. (2014). Study on the relationship between love attitudes and marital satisfaction among married women. *European Online Journal of Natural and Social Sciences*, 3(3), 468-474.
- Tepeli Temiz, Z., & Elsharnouby, E. (2022). Relationship satisfaction and well-being during the COVID-19 pandemic: Examining the associations with interpersonal emotion regulation strategies. *Cognitive Therapy* and Research, 46(5), 902-915. https://doi.org/10.1007/s10608-022-10317-w
- Türk, E. G., & Yıldız, A. D. (2017). Aşk biçemleri, ilişki doyumu ve yalnızlık: Üniversite öğrencileri üzerine bir çalışma (Love Styles, Relationship Satisfaction and Loneliness: A Study on University Students). Turkish Psychological Counseling and Guidance Journal, 7 (48), 97-109.
- Uysal, A. N. (2016). Predicting relationship satisfaction: Dark triad personality traits, love attitudes, attachment dimension. Doğuş University, Institute of Social Sciences (Unpublished Master Thesis), İstanbul.

- Vedes, A., Hilpert, P., Nussbeck, F. W., Randall, A. K., Bodenmann, G., & Lind, W. R. (2016). Love styles, coping, and relationship satisfaction: A dyadic approach. *Personal Relationships*, 23(1), 84-97.
- Yam, F. C. (2023). The relationship between partner phubbing and life satisfaction: The mediating role of relationship satisfaction and perceived romantic relationship quality. *Psychological Reports*, 126(1), 303-331. https://doi.org/10.1177/003329412211446

Yancey, G., & Berglass, S. (1991). Love styles and life satisfaction. Psychological Reports, 68(3), 883-890.

Neto, F., & Pinto, M. D. C. (2025). Correlates of the Short Form Love Attitudes Scale among Portuguese People. *Sexuality & Culture*, 29(1), 152-168. https://doi.org/10.1007/s12119-024-10270-8