

Social Design Engineering Series

SDES-2021-7

Mis(match) and happiness in marital relationship: Importance of future planning and inquisitiveness

Khatun Mst Asma School of Economics and Management, Kochi University of Technology

Yu Nakamura Sansan, Inc, Japan

Koji Kotani School of Economics and Management, Kochi University of Technology

15th July, 2021

School of Economics and Management Research Institute for Future Design Kochi University of Technology

KUT-SDE working papers are preliminary research documents published by the School of Economics and Management jointly with the Research Center for Social Design Engineering at Kochi University of Technology. To facilitate prompt distribution, they have not been formally reviewed and edited. They are circulated in order to stimulate discussion and critical comment and may be revised. The views and interpretations expressed in these papers are those of the author(s). It is expected that most working papers will be published in some other form.

Mis(match) and happiness in marital relationship: Importance of future planning and inquisitiveness

Khatun Mst Asma^{*,†} Yu Nakamura[‡] Koji Kotani^{*,§,¶,∥,**}

July 15, 2021

Abstract

Having a sense of good match with the partner in a married couple shall be important to have a stable relationship and a happy life. However, little is known about the possible determinants for having such a relationship and happiness in marriage. We empirically examine (i) what induces a husband or wife to have a sense of good match, "my partner is in good match with me," and (ii) how the husband's and wife's perceptions to the match or mismatch are related to his or her happiness. The questionnaire surveys were conducted in Japan and data are collected from 247 married couples. The statistical analyses reveal the following main findings. First, a husband's inquisitiveness (intellectual curiosity and flexible cognitive ability) and a couple's recognition to the amount of family future-planning discussion not only positively influence having a sense of good match but also contribute to individual happiness. Second, "both-match" couples who recognize "my partner is in good match with me" one another are much happier than couples who do not, and "both-mismatch" couples who recognize "my partner is NOT in good match with me" one another are the unhappiest among any other type of mismatch couples. Overall, sufficient future-planning discussion and a personal attribute of curiosity & acceptance to something new and/or different are identified to be the main drivers for couples to maintain a feeling of good chemistry, enhancing individual happiness directly and indirectly through a mediator of having the sense of mis(match).

Key Words: Mis(match); happiness; future planning; inquisitiveness; couples

^{*}School of Economics and Management, Kochi University of Technology, Japan

[†]Department of Agricultural and Applied Statistics, Bangladesh Agricultural University, Bangladesh [‡]Sansan, Inc, Japan

[§]Research Institute for Future Design, Kochi University of Technology, Japan

[¶]Urban Institute, Kyusyu University, Japan

^ICollege of Business, Rikkyo University, Japan

^{**}Corresponding author, E-mail: kojikotani757@gmail.com. We do not have any conflict of interest.

Contents

1	Introduction	2
2	Methods and Materials	5
3	Results	8
4	Discussion	14
5	Conclusion	16

1 **Introduction**

Having a sense of good match with the partner or counterpart in any relation between two agents 2 important to maintain a stable relationship for a happy life. In the societies, people want to find 15 3 suitable and/or stable partner in their life, such as a worker searching a good job, an organizaa 4 on looking an employee, a student searching a good university or a single person seeing a partner. ti 5 However, the outcome of these relationships are affected if there exist a two-sided matching problem 6 between two agents (Burdett and Coles, 1999). A good compatible relationship not only describes 7 the present situation but also predicts the state of relationship in the near future (Berscheid, 1985). A 8 growing number of literature in the field of sociology and psychology states the importance of long 9 lasting committed relationships in the society, but there is a scarcity of researches that document how 10 to maintain a sense of good match between two agents (Waite and Gallagher, 2001, O'Connell, 2008, 11 Meunier and Baker, 2012). Therefore, it is crucial to recognize the sense of mis(match) with the part-12 ner for happiness and social welfare. The current study examines what induces a husband and wife 13 to have a good match as well as how their perceptions of match or mismatch are related to individual 14 happiness. 15

Several previous studies examine the relationship between marriage and subjective happiness
(Stack and Eshleman, 1998, England, 2001, Tsou and Liu, 2001, Lucas et al., 2003, Frey and Stutzer,
2005, Lucas and Clark, 2006, Stutzer and Frey, 2006, Zimmermann and Easterlin, 2006, Lee and Ono,
2008, Kaufman and Taniguchi, 2010, Musick and Bumpass, 2012, Vanassche et al., 2013, Qari, 2014,

Tiefenbach and Kohlbacher, 2015, Wadsworth, 2016, Perelli-Harris et al., 2019, Chen, 2018, Yoo and 20 Lee, 2019). Chapman and Guven (2016) use census data in the Unites States, United Kingdom and 21 Germany for examining the relationship between marriage quality and happiness, finding that people 22 in self-assessed poor marriages seem to be worse and much less happier than unmarried people. Tao 23 (2019) examines the relationship between marriage and happiness in Taiwan, reporting that a good 24 quality match in marriage is important for happiness. Carr et al. (2014) use national representative 25 panel data in the United States and explore that marital satisfaction is correlated with life satisfac-26 tion and momentary happiness. Kimbrough and Kuo (2010) mention that the two-sided aspect from 27 both partners is important to evaluate their relationship for stability, equity and social welfare. Svarer 28 (2005) documents that learning about a good quality match is crucial for reducing the risk of divorce. 29 Overall, it is important to examine the chemistry between two partners in a married couple and how 30 to maintain a sense of good match for happiness. 31

Past studies in the marital relationship mainly focus on marital satisfaction by applying the quan-32 titative and qualitative approaches (Eysenck and Jr, 1981, Acitelli, 1992, Cheung, 2005, Qadir et al., 33 2005, Wong and Goodwin, 2009, Lavner and Bradbury, 2010, Chen and Lim, 2012, Madanian et al., 34 2013, Taniguchi and Kaufman, 2014, Tavakol et al., 2017, LeBaron et al., 2018). Quantitative ap-35 proaches include self-ratings or rating by the opposite partner or others used to measure marital satis-36 faction (Kolb and Straus, 1974, Gray-Little and Burks, 1983, Busby and Holman, 2009, Ward et al., 37 2009). Regardless of what scale is used, it is found that marital satisfaction follows a U shaped change 38 over the period of time in Western (Anderson et al., 1983). However, VanLaningham et al. (2001) and 39 Kamo (1993) establish that marital satisfaction does not follow a U shaped pattern over the life course 40 in the USA and Japan, respectively. Rehman et al. (2011) examine the association between marital 41 satisfaction and communication behavior, demonstrating that conflict discussions are positively asso-42 ciated with marital satisfaction. Tavakol et al. (2020) implement a qualitative approach to characterize 43 marital satisfaction among Iranian couples, finding that passing of time together and personal, fam-44 ily & community have significant impacts on marital satisfaction. Overall, marital satisfaction does 45 not always reveal a U shaped pattern over the period of time and it is affected by sociodemographic, 46 personal and communication factors. 47

Inquisitiveness, a part of critical thinking, is a personal attribute that motivates people to im-48 prove the problematic situation by increasing their curiosity and obtaining knowledge about new and 49 different environments (Garrison, 1991, Hirayama and Kusunoki, 2004, Nakagawa, 2016). An inquis-50 itive person tends to communicate with other persons and they are perceived as bright, creative and 51 problem-solvers who deal with different issues in various fields (Yeh, 2002, Kawashima and Petrini, 52 2004, Hogan and Hogan, 2007). For example, Nakagawa (2016) find that inquisitiveness is positively 53 associated with the risk perception and earthquake preparedness in Japan. Hirayama and Kusunoki 54 (2004) investigate the effect of critical thinking disposition on drawing a conclusion in Japan, showing 55 that inquisitiveness is important to draw an appropriate conclusion. There is a scarcity of researches 56 that apply the inquisitiveness in the field of marriage, however, Goleman (1998), Bar-On and Parker 57 (2000) and Kulkarni and Jagtap (2010) define an emotional intelligence, a set of cognitive abilities 58 or skills, that affects people's ability to understand and manage their emotions to cope with different 59 environments. Overall, inquisitiveness shall be a crucial factor to increase motivation and communi-60 cation by triggering curiosity and interaction with unfamiliar environments. 61

Although the positive relationship between marriage quality and happiness is well establish, sev-62 eral important aspects are still unidentified. For instance, there is an empty room of what character-63 izes a sense of good match with the partner and happiness in marriage. Having a sense of good match 64 with the partner in marriage is considered to be more stable than the marital satisfaction, because 65 it describes the present as well as the near future state of relationship. We examine what induces a 66 husband or wife to have a sense of good match, such as "my partner is in good match with me," as 67 well as how the husband's and wife's perceptions to the match or mismatch are related to his or her 68 happiness. The questionnaire surveys are conducted in Japan and data are collected from 247 married 69 couples where a couple is asked to provide separate and independent responses. With the data, this 70 study addresses the following three open questions: (i) Do sufficient future-planning discussion and 71 inquisitiveness play the role in maintaining a sense of good match and happiness?, (ii) How does the 72 sense of mis(match), along with the types of mismatch, contribute to individual happiness? and (iii) 73 How do sufficient future-planning discussion and inquisitiveness, along with the sense of mis(match), 74 affect individual happiness? 75

76 2 Methods and Materials

We conduct questionnaire surveys from 21 to 27 December 2020 sourced from the registered 77 of a web-based survey research organization, Cross marketing company limited, in Japan. Couples 78 with at least one child were selected as subjects in the questionnaire surveys. Our target was to 79 collect necessary information from 250 randomly selected couples. However, in total 247 couples 80 (494 subjects) successfully provided their separate and independent responses. During the surveys, 81 questionnaires were sent to the husband's and wife's personal e-mail address separately and they 82 provided their responses by using their own devices. Subjects were requested not to share and discuss 83 their responses with the partner when completing the questionnaire. Information was collected on 84 subjective happiness, sense of mis(match), amount of future-planning discussion, inquisitiveness and 85 sociodemographic variables through conducting our questionnaire surveys. 86

The subjective happiness scale developed by Lyubomirsky and Lepper is employed to measure 87 subjects' happiness (Lyubomirsky and Lepper, 1999). This scale uses a four-item measurement, in-88 cluding the following statements: (1) "In general, I consider myself," (2) "Compared to my peers, I 89 consider myself," (3) "Some people are generally very happy. They enjoy life no matter what is going 90 on, getting the most of everything. How much does this sentence describe you?" and (4) "Some peo-91 ple are generally not very happy. Although they are not depressed, they never seem as happy as they 92 might be. How much does this sentence describe you?" The first item accounts individual absolute 93 self-rated happiness where each subject is asked to choose an option by using a 7-point Likert scale 94 from "not a very happy person" to "a very happy person." The second item reports individual relative 95 happiness as compared to that of peers and its evaluations are based on a 7-point Likert scale form 96 "less happy" to "more happy." The other two items give a general description of a happy and unhappy 97 person where subjects are asked to choose an option by using a 7-point Likert scale from "not at all" to 98 "a great deal" for the best description of themselves. For calculating the overall subjective happiness, 99 we estimate the average of the four items, while the last item is coded reversely. 100

The sense of mis(match) is measured by both partners in a married couple. In this study, we apply a 6-question measurement, where each question is rated on a 5-point Likert scale. Each subject is

asked to provide the reasons along with the answer of each question. The first and second questions 103 are corresponded to the family budget and time, by stating "Are you satisfied with the partner for 104 spending family budget and/or time for the family?" and its evaluations are "very satisfied" and "not 105 very satisfied." The third question is related to a good understanding with each other, by stating "Do 106 you think that your partner has a good understanding of you with respect to your job, personality, 107 preferences, family matters and future planning?" and its evaluations are "very satisfied" and "not 108 very satisfied." The forth question is "Are you supportive to your partner about parenting and house-109 hold activities?" and the evaluations are made on a 5-point Likert scale from "very supportive" to 110 "not very supportive." The fifth question is "Do you respect to your partner as a person?" and its 11 evaluations are "very respected" and "not very respected." 112

Questions 1 to 5 are designed to remind subjects about the sense of mis(match) with the partner 113 that has been built over the time in their marriage. In the sixth question, we ask about a sense of 114 good match with the partner, by stating "Do you think that the relationship with your partner is a 115 good match?" and its evaluations are "good match" and "not good match" on a 5-point Likert scale. 116 The concept of the match and mismatch used in this study is defined with the reference of self-self 11 match that is one of the matching evaluation methods of Gottman conflict styles developed Busby and 118 Holman (Busby and Holman, 2009). When both the husband and wife recognize that "my partner is in 119 good match with me" is defined as a good match and all other possibilities are defined as a mismatch. 120 Mismatch is divided into three parts: (i) Both-mismatch (both the husband and wife recognize that 121 they are in a mismatch), (ii) One-side mismatch (either husband or wife recognizes that he/she is in 122 a mismatch) and (iii) Other-mismatch (either husband or wife recognizes that he/she is in a neutral 123 position). 124

Each subject is asked about the time spending for future-planning, by stating "Do you feel that you have enough time to discuss your future family planning (parenting policy, work, asset planning, old age) with your partner?" The answer takes the value 1 when the subject mentions that she/he has enough time to discuss future-planning with the partner, otherwise 0. A subscale of the critical thinking disposition scale created by Hirayama and Kusumi with ten items is utilized to measure subjects' inquisitiveness (intellectual curiosity and flexible cognitive ability for new & different environments)

(Hirayama and Kusunoki, 2004). The items include 10 statements: (1) "I want to interact with people 13 with various ways of thinking and learn a lot from them," (2) "I want to keep learning new things 132 throughout my life," (3) "I like to challenge new things," (4) "I want to learn about various cultures," 133 (5) "Learning how foreigners think is meaningful to me," (6) "I am interested in people who have a 134 different way of thinking," (7) "I want to know more about any topic," (8) "I want to learn as much as 135 possible, even if I do not know if it is useful," (9) "It is interesting to discuss with people who have 136 different ideas than me" and (10) "I want to ask someone if I do not know." The items are rated from 137 "strongly agree" to "strongly disagree" on a 7-point Likert scale. All items are recoded reversely when 138 calculated the sum of this scale. Information is collected on sociodemographic variables, such as age, 139 household income, education and family structure during the questionnaire surveys. The definitions 140 of the variables used in this study are summarized in table 1. 141

142

[Table 1 about here.]

We apply logit and mean-based median regressions to address the open questions posed in the 143 introduction section: (i) Do sufficient future-planning discussion and inquisitiveness play the role in 144 maintaining a sense of good match and happiness?, (ii) How does the sense of mis(match), along with 145 the types of mismatch, contribute to individual happiness? and (iii) How do sufficient future-planning 146 discussion and inquisitiveness, along with the sense of mis(match), affect individual happiness? For 147 answering questions (i), (ii) and (iii), the logit and median regressions are used to characterize the 148 sense of mis(match) and happiness as dependent variables, respectively, with the other important 149 explanatory variables described in figure 1, enabling to identify the important factors. In the logit 150 regression, let y_i denote a variable such that $y_i = 1$ if couple *i* has a sense of good match one another, 151 and $y_i = 0$ otherwise, the model is as follows: 152

$$y_i = \alpha_0 + \alpha_1 F_i + \alpha_2 I_i + \boldsymbol{\alpha}_3 \mathbf{Z}_i + \varepsilon_i \tag{1}$$

where F_i and I_i are the variables associated with future-planning discussion and inquisitiveness, respectively. \mathbf{Z}_i is a vector of sociodemographic variables, such as husband's age, wife's age, household income, husband's education, wife's education and family structure. The parameters α_0 , α_1 and α_2 are associated with the intercept, F_i , I_i , respectively, while α_3 is a vector of the parameter associated with \mathbf{Z}_i and ε_i is an error term.

We apply a mean-based median regression developed by Koenker and Bassett (1978) and Koenker and Hallock (2001) to examine the effects of the sense mis(match) on happiness, after controlling other factors and to statistically test the research questions (ii) and (iii). A median regression model can be mathematically expressed as:

$$h_i = \beta_0 + \beta_1 \mathbf{M}_i + \beta_2 F_i + \beta_3 I_i + \beta_4 \mathbf{Z}_i + \varepsilon_i$$
⁽²⁾

where h_i is the subjective happiness variable for *i*th subject; F_i and I_i are the variables associated with future-planning discussion and inquisitiveness, respectively. \mathbf{M}_i and \mathbf{Z}_i are the vectors of the sense of mis(match) dummies and sociodemographic variables, respectively and ε_i is an error term. The β_j s for j = 0, 1, 2, 3, 4 are the parameters associated with the intercept, \mathbf{M}_i , F_i , I_i and \mathbf{Z}_i , while β_1 and β_4 are the vectors of the parameters, respectively.

With the regression analyses of equation (1) and equation (2), we are interested to examine a conceptual framework for the relationships among future-planning discussion, inquisitiveness, sense of mis(match) and happiness in figure 1. In this framework, our main focus is on estimating the regression coefficients α_1 , α_2 and α_3 as well as β_1 , β_2 , β_3 and β_4 in figure 1. A coefficient, for example α_1 (β_1) represents the effect of future-planning discussion on sense of mis(match) (happiness) after the effects of all other variables are netted out, while some possible mediator play roles on subjective happiness through some explanatory variables.

175 **3 Results**

174

Table 2 presents the summary statistics of the key variables for husbands, wives and overall subjects in the sample. The mean scores of subjective happiness for husbands, wives and the overall sample are mostly similar at 4.70, 4.57 and 4.64 points, respectively. Regarding the sense of mis(match), ¹⁷⁹ 59% subjects perceive that they are in a good match with the partner, while 41% subjects perceive ¹⁸⁰ that they are in a mismatch with the partner. The percentages of subjects who recognize that they do ¹⁸¹ sufficient future-planning discussion with the partner are similar between husbands and wives (54%¹⁸² and 53%). The scores of inquisitiveness for husbands and wives are 50.33 and 47.61 points, respec-¹⁸³ tively. There are no differences exist in terms of age and education between husbands and wives. ¹⁸⁴ Overall, it can be interpreted as the key variables do not vary between husbands and wives.

185

[Table 2 about here.]

Table 3 summarizes the basic statistics of the key variables for the sense of match, mismatch and 186 overall subjects in the sample. Subjects having a sense of good match (the average subjective happi-187 ness score is 5.00 points) are happier than subjects having a sense of mismatch (the average subjective 188 happiness score is 4.13 points). Regarding future-planning discussion, subjects who perceive a sense 189 of good match discuss more about future-planning with the partner (69%) than subjects having a 190 sense of mismatch (32%). The mean score of inquisitiveness is higher for subjects who have a sense 19 of good match (49.94 points) than subjects who have a sense mismatch (47.57 points). The overall 192 mean age for subjects is 43 years and they have an average annual income from 4 to 7 million yen. 193 Subjects usually receive a college degree and most of them belong to a nuclear family. However, so-194 ciodemographic variables, such as age, household income, education and family structure do not vary 195 between sense of match and mismatch couples. Overall, subjects having a sense of good match are 196 happier, more curious and they spend more time for future-planning discussion than subjects having 197 a sense of mismatch. 198

199

[Table 3 about here.]

Figure 2 is a histogram that presents the distribution of subjective happiness for overall subjects in the sample. The vertical axis represents the frequencies, while the horizontal axis presents subjective happiness. The highest spike is observed at 5 points and the distribution of subjective happiness appears to follow a skewed distribution. A Shapiro-Wilk normality test is applied with the null hypothesis that the subjective happiness is normally distributed. We find that the null hypothesis is rejected (z = 1.81, p = 0.03), meaning that the distribution of subjective happiness is not normally distributed. Therefore, we employ a mean-based median regression to examine the effects of sense of mis(match), future-planning discussion and inquisitiveness on happiness, while controlling for other important sociodemographic variables.

218

[Figure 2 about here.]

Figure 3 is a boxplot that presents a difference in the distributions of subjective happiness between 210 sense of match and mismatch couples. Form the figure, it is clearly showed that subjects who perceive 21 that they are in a good match with the partner are happier than subjects who perceive that they are 212 in a mismatch with the partner. We apply a Mann-Whitney test with the null hypothesis that the 213 distributions of subjective happiness are the same between sense of match and mismatch couples. The 214 result of Mann-Whitney test confirms that there is a significant distributional difference of subjective 21 happiness between sense of match and mismatch couples (z = -9.40, p = 0.01). Overall, it can be 216 said that the sense of mis(march) has a strong influence on subjective happiness. 21

[Figure 3 about here.]

Table 4 reports the marginal effects of the explanatory variables on sense of mis(match) in the logit 219 regression with several model specifications. First, we include husband- and wife-side future-planning 220 discussion in Model 1 in the logit regression to examine the effects of future-planning discussion vari-22 ables on sense of mis(match). The results demonstrate that the future-planning discussion from both 222 the husband's and wife's side is significant at 1% level, meaning that the probability of having a sense 223 of good match increases by 25% (26%) when husbands (wives) do sufficient future-planning discus-224 sion with his (her) partner than husbands (wives) who do not. This indicates that the discussion about 225 future-planning with the partner is an important factor to increase a sense of good match. Tilburg 226 and Igou (2019) report that visioning of a happy future helps people to understand the meaning of 22 everyday life. This results can be interpreted as the future-planning discussion influences couples' 228 imagination of a bright future and it gives the feeling of meaning of everyday life that stimulates a 229 sense of good match. 230

[Table 4 about here.]

Then, we exclude future-planning discussion and include inquisitiveness and other sociodemo-232 graphic variables in Model 2 in the logit regression. Model 2 in the logit regression shows that the 233 husband's inquisitiveness is significant at 5% level, implying that the probability of having a sense of 234 good match increases by 1% for a 1 point increase in husband's inquisitiveness. This result suggests 235 that husbands are curious and have cognitive ability of new and different environments that help them 236 to understand the nature of problems and motivate them to take necessary actions for solving those 237 problems. Inquisitiveness improves people's understanding level, evaluation and judgment and as-238 sists to build up their knowledge and experience (Facione et al., 1995, Bailin et al., 1999, Rapps et al., 239 2001). From Model 2 in the logit regression, we also find that household income is significant at 10%240 level, indicating that the probability of having a sense of good match increases by 8 % for a 1 category 24 increase in household income. Cherlin (1979) mention that household income has a positive effect on 242 marriage quality because it contributes to the overall quality of life and stability, while Brennan et al. 243 (2001) find that only males' income increases marital quality. 244

Finally, we include all the independent variables (future-planning discussion, inquisitiveness and 245 sociodemographic) in Model 3 in the logit regression to check the robustness of our results. The main 246 results of Model 3 do not differ from those of model 1 as well as the economic significances of the 24 estimated coefficients for future-planning discussion and inquisitiveness variables almost remain the 248 same. Moreover, Model 3 shows that the effects of future-planning discussion and inquisitiveness on 249 sense of mis(match) from both the husband's and wife's side more precisely, while controlling for 250 other important sociodemographic variables. These results demonstrate that future-planning discus-25 sion and inquisitiveness are consistent and robust factors of having a sense of good match, indicating 252 future planning-discussion and husband's inquisitiveness are crucial to maintain a feeling of good 253 chemistry between a husband and wife. 254

Table 5 presents the estimated coefficients of the explanatory variables on subjective happiness in the median regression with several model specifications. First, we include sense of mis(match) and future-planning discussion variables with their reference groups in Model 1 in the median regression

to examine the effects of sense of mis(match) and future-planning discussion on subjective happiness. 258 We find that sense of mis(match) and future-planning discussion are significant at 1% levels. The 259 result reveals that "both-match" couples who recognize "my partner is in good match with me" one 260 another are much happier than couples who do not. However, the negative effect of happiness varies 26 dendending on the types of sense of mismatch. When couples have a sense of mismatch from the both-262 side (one-side and other), then the subjective happiness is likely to decrease by 1.75 (1.00 and 0.75) 263 points than couples have a sense of good match. The results can be interpreted as "both-mismatch" 264 couples who recognize that "my partner is NOT in good match with me" one another are the un-265 happiest among any other type of mismatch couples. Vermunt et al. (1989) document that people's 266 happiness is related to the feelings of satisfaction and dissatisfaction in every aspect of life. Regarding 267 future-planning discussion, the subjective happiness is likely to increase by 0.69 point when subjects 268 sufficiently discussed future-planning with the partner than subjects who do not, indicating that the 269 amount of future-planning discussion contributes to individual happiness. 270

271

[Table 5 about here.]

Then, we exclude sense of mis(match) and future-planning discussion and include inquisitiveness 272 and other sociodemographic variables in Model 2 in the median regression. Model 2 in the median 273 regression shows that inquisitiveness, age and age square are significant at 5% and 10% levels, imply-274 ing that inquisitiveness and age are the important determinants of subjective happiness. The estimated 275 coefficient of inquisitiveness indicates that the likelihood of individual happiness increases by 0.02276 point when a one point rise in inquisitiveness. The result suggests that inquisitiveness has a strong 27 influence on subjective happiness. The signs of both age and age square coefficients are positive and 278 significant, meaning that the subjective happiness increases with increasing age. An et al. (2020) find 279 a positive curvilinear relationship between age and happiness. 280

Model 3 in the median regression, we use all the independent variables included in Models 1 and 282 2, with their baseline specifications in table 5 to check the robustness of our findings and we confirm 283 that the main results in Model 3 do not vary from those of Models 1 and 2. However, the economic 284 significances of sense of mis(match) and future-planning discussion on subjective happiness reduce slightly. Model 3 shows that the effects of sense of mis(match), future-planning discussion and inquisitiveness on the subjective happiness more accurately, while controlling for other sociodemographic variables. The regression estimations confirm that sense of mis(match), future-planning discussion and inquisitiveness are consistent and robust factors of subjective happiness. These results can be interpreted as a sense of good match, sufficient future-planning discussion and high inquisitiveness increase subjective happiness.

Figure 4 shows a path diagram for causal relationships among four variables, such as future plan-29 ning discussion, inquisitiveness, sense of mis(match) and happiness. It is clear from the diagram that 292 the sense of mis(match) is a mediator between future-planning discussion (inquisitiveness) and happi-293 ness. A structural equation modeling (SEM) is applied to address whether the sense of mis(match) is 294 a mediator or not, including the standardized estimates for the causal paths for the indirect and direct 29 effects of future-planning discussion and inquisitiveness on happiness (see, e.g., Weston and Gore, 296 2006, Gunzler et al., 2013, 2014, Venturini and Mehmetoglu, 2019). In SEM, five direct paths (A, B, 29 C, D and E) and two indirect paths (C' and D') are analyzed. These paths are found statistically signif-298 icant at 1% and 10% levels, meaning that future-planning discussion and inquisitiveness affect hap-299 piness directly and indirectly, where the sense of mis(match) is a mediator between future-planning 300 discussion (inquisitiveness) and happiness. This analyses establish that future-planning discussion, 30 inquisitiveness and sense of mis(match) are important factors for individual happiness through not 302 only their direct but also indirect effects, which is considered as another robustness check for our 303 regression analyses. 304

[Figure 4 about here.]

305

Now we are ready to provide the answers to our open research questions posed in the introduction section. The first question is: "Do sufficient future-planning discussion and inquisitiveness play the role in developing a sense of good match and happiness?" From summary statistics, test, diagrams and regression analyses consistently show that future-planing discussion and inquisitiveness are the important determinants to have a sense of good match and happiness. That means the answer of this question is "yes," i.e., future-planning discussion and inquisitiveness increase a sense of

good match between a husband and wife as well as happiness. The second question is: "How does 312 the sense of mis(match), along with the types of mismatch, contribute to individual happiness?" The 313 regression analyses show that "both-match" couples who recognize "my partner is in a good match 314 with me" one another are much happier than couples who do not, and "both-mismatch" couples who 315 recognize "my partner is NOT in good match with me" one another are the unhappiest among any 316 other type of mismatch couples. The third question is: "How do sufficient future-planning discussion 31 and inquisitiveness, along with the sense of mis(match), affect individual happiness?" The answer of 318 this question is that sufficient future-planning discussion and inquisitiveness are crucial for couples to 319 maintain a sense of good match between a husband and wife as well as enhance individual happiness 320 directly and indirectly through a mediator of the sense of mis(match). 32

322 4 Discussion

The study begins with a concern that what characterizes a sense of good match, such as "my 323 partner is in good match with me" and happiness in marriage. This study demonstrates that the 324 future-planning discussion positively influences a sense of good match as well as happiness. Previous 325 studies document that imagining future events may influence the human way of thinking and strategies 326 for taking decisions (Szpunar et al., 2014, Corcoran et al., 2017, González-Ricoy and Gosseries, 32 2017). For example, Nakagawa et al. (2019) examine how projecting the future affects the way 328 of thinking of individual preferences for policies. Through projected longevity events couples can 329 imagine themselves in a long-lasting relationship that increases commitment and communication, 330 resulting in high marital quality (Thompson-Hayes and Webb, 2004). Imagining a bright and happy 33 future invites people to discover the meaning of life (Tilburg and Igou, 2019). Based on the above 332 discussion, sufficient future-planning discussion enhances the way of thinking and communication 333 behavior that stimulate a sense of good match between a husband and wife as well as happiness. 334

Inquisitiveness is a personal attribute of curiosity & acceptance to something new and someone different that motivates people to communicate with others by asking questions and pursues to gather information (Blickle et al., 2014, Bardone and Secchi, 2017, Watson, 2019). Inquisitiveness is a power

that triggers persons to interact and communicate with others and adjust themselves in unfamiliar en-338 vironments Black (2005). If this is the case, then inquisitiveness may be regarded as an instrument 339 that assists couples to understand each other and accept their problems, therefore they can maintain a 340 feeling of good chemistry with the partner in the marital relationship. Inquisitiveness can be consid-34 ered to acquire or further enhance through education, experiences and training (Toplak and Stanovich, 342 2002, Sannomiya and Yamaguchi, 2016, Fusaro and Smith, 2018). If this is true, then the feeling of 343 good match and happiness will increase in the societies, as people become inquisitive through the 344 education, experiences and training. 345

But now the key question is "why does only the husband's inquisitiveness contribute to main-346 tain a sense of good match?" We argue that the cultural and lifestyle differences of a husband and 347 wife are responsible to make only the husband curious and knowledgeable about new and different 348 environments. Historically, in Japanese society, a woman has a special role at the house and has 349 taken autonomy. In the modern time, even with the advancement of woman's education and social 350 empowerment, the role that a woman plays in the house has not been changed. The key role for a 35 woman is still the housework and child-rearing. In this study, the fact is only the husband's inquis-352 itiveness (intellectual curiosity and flexible cognitive ability) positively influences a sense of good 353 match, meaning that a husband has a strong ability to accept the wife's way of thinking (housework, 354 child-rearing, work-family balance) even though each family has a different division of employment 355 status and household chores. 356

The findings of the study provide implications for academic researchers, policymakers and general 357 people regardless of the developing and developed countries. Having a sense of good match with 358 the partner and counterpart in any relation between two agents is important for maintaining a long-359 lasting relationship and reducing the rate of divorce. This research findings would be helpful to 360 analyze the partnership formation, such as a firm searching an employee, a single partner finding 36 a marriage partner, a friend searching for a good friend and a student finding a good. This study 362 adds additional evidence in the existing literature by showing that future-planning discussion and 363 inquisitiveness contribute to maintain a sense of good match and happiness as well as may be helpful 364 to achieve SDG goal 3 within the expected time frame. It is well documented that subjective wellbeing 365

positively related to the achievement of SDGs (De Neve and Sachs, 2020, Kim et al., 2021).

367 5 Conclusion

We have empirically examined what induces a husband or wife to have a sense of good match, 368 "my partner is in good match with me," and how the husband's and wife's perceptions to the match 369 or mismatch are related to his or her happiness. The questionnaire surveys were conducted in Japan 370 and data are collected from 247 married couples where a couple is asked to provide separate and 37 independent responses. The main findings are: (i) a husband's inquisitiveness (intellectual curiosity 372 and flexible cognitive ability) and a couple's recognition to the amount of family future-planning 373 discussion not only positively influence having a sense of good match but also contribute to individual 374 happiness. (ii) "both-match" couples who recognize "my partner is in good match with me" one 375 another are much happier than couples who do not, and "both-mismatch" couples who recognize "my 376 partner is NOT in good match with me" one another are the unhappiest among any other type of 37 mismatch couples. Overall, sufficient future-planning discussion and a personal attribute of curiosity 378 & acceptance to something new and/or different are identified to be the main drivers for couples to 379 maintain a feeling of good chemistry, enhancing individual happiness directly and indirectly through 380 a mediator of having the sense of mis(match). 38

Some limitations and the direction for future research are noted here. The questionnaire surveys 382 do not consider how couples get married or how much time they shared with the partner before the 383 marriage. In future research, it is necessary to include such questions that consider how the length 384 of time shared before marriage where the love marriage is the majority in a society. There is a 385 possibility to find a different result where the majority of marriage is an arranged marriage or where 386 sexual diversity is recognized. For increasing overall well-being in the society, the following questions 38 would be addressed properly: (i) How much newness and differences are allowed to each other and 388 how can you keep your curiosity about it? (2) How much would you discuss and implement future 389 family planning with your partner? These caveats notwithstanding, it is important to have a sense of 390 good match with the partner in a married couple for maintaining a stable and happy life. 39

References

- Acitelli, L. (1992). Gender differences in relationship awareness and marital satisfaction among young married couples. *Personality and social psychology bulletin*, 18:102–110.
- An, H., Chen, W., Wang, C., Yang, H., Huang, W., and Fan, S. (2020). The relationships between physical activity and life satisfaction and happiness among young, middle-aged, and older adults. *International journal of environmental research and public health*, 17:4817.
- Anderson, S., Russell, C., and Schumm, W. (1983). Perceived marital quality and family life-cycle categories: A further analysis. *Journal of marriage and family*, 45:127–139.
- Bailin, S., Case, R., Coombs, J., and Daniels, L. (1999). Conceptualizing critical thinking. *Journal of curriculum studies*, 31:285–302.
- Bar-On, R. and Parker, J. (2000). *The handbook of emotional intelligence: Theory, development, assessment, and application at home, school, and in the workplace.* Jossey-Bass.
- Bardone, E. and Secchi, D. (2017). Inquisitiveness: Distributing rational thinking. *Team performance management*, 23:66–81.
- Berscheid, E. (1985). Compatibility, interdependence, and emotion. In *Compatible and incompatible relationships*, pages 143–161. Springer Series in Social Psychology.
- Black, S. (2005). The mindset of global leaders: Inquisitiveness and duality. In *Advances in global leadership*. Emerald Group Publishing Limited.
- Blickle, G., Meurs, J., Wihler, A., Ewen, C., and Peiseler, A. (2014). Leader inquisitiveness, political skill, and follower attributions of leader charisma and effectiveness: Test of a moderated mediation model. *International journal of selection and assessment*, 22:272–285.
- Brennan, R., Barnett, R., and Gareis, K. (2001). When she earns more than he does: A longitudinal study of dual-earner couples. *Journal of marriage and family*, 63:168–182.

- Burdett, K. and Coles, M. (1999). Long-term partnership formation: Marriage and employment. *Economic journal*, 109:F307–F334.
- Busby, D. and Holman, T. (2009). Perceived match or mismatch on the Gottman conflict styles: Associations with relationship outcome variables. *Family process*, 48:531–545.
- Carr, D., Freedman, V., Cornman, J., and Schwarz, N. (2014). Happy marriage, happy life? Marital quality and subjective well-being in later life. *Journal of marriage and family*, 76:930–948.
- Chapman, B. and Guven, C. (2016). Revisiting the relationship between marriage and wellbeing: Does marriage quality matter? *Journal of happiness studies*, 17:533–551.
- Chen, J. and Lim, S. (2012). Factors impacting marital satisfaction among urban mainland Chinese women: A qualitative study. *Asia pacific journal of counselling and psychotherapy*, 3:149–160.
- Chen, M. (2018). Does marrying well count more than career? Personal achievement, marriage, and happiness of married women in urban China. *Chinese sociological review*, 50:240–274.
- Cherlin, A. (1979). Work life and marital dissolution. In *Divorce and separation: Context, causes and consequences*, pages 151–166. Basic Books New York.
- Cheung, M. (2005). A cross-cultural comparison of gender factors contributing to long-term marital satisfaction: A narrative analysis. *Journal of couple and relationship therapy*, 4:51–78.
- Corcoran, P., Weakland, J., and Wals, A. (2017). *Envisioning futures for environmental and sustainability education*. Wageningen Academic Publishers.
- De Neve, J. and Sachs, J. (2020). The SDGs and human well-being: A global analysis of synergies, trade-offs, and regional differences. *Scientific reports*, 10:1–12.
- England, P. (2001). The case for marriage: Why married people are happier, healthier, and better off financially. *Contemporary sociology*, 30:564–565.
- Eysenck, H. and Jr, J. W. (1981). Psychological factors as predictors of marital satisfaction. *Advances in behaviour research and therapy*, 3:151–192.

- Facione, P., Sanchez, C., Facione, N., and Gainen, J. (1995). The disposition toward critical thinking. *Journal of general education*, 44:1–25.
- Frey, B. and Stutzer, A. (2005). Happiness research: State and prospects. *Review of social economy*, 63:207–228.
- Fusaro, M. and Smith, M. (2018). Preschoolers' inquisitiveness and science-relevant problem solving. *Early childhood research quarterly*, 42:119–127.
- Garrison, R. (1991). Critical thinking and adult education: A conceptual model for developing critical thinking in adult learners. *International journal of lifelong education*, 10:287–303.

Goleman, D. (1998). Working with emotional intelligence. New York: Bantam Books.

- González-Ricoy, I. and Gosseries, A. (2017). *Institutions for future generations*. Oxford University Press.
- Gray-Little, B. and Burks, N. (1983). Power and satisfaction in marriage: A review and critique. *Psychological bulletin*, 93:513–538.
- Gunzler, D., Chen, T., Wu, P., and Zhang, H. (2013). Introduction to mediation analysis with structural equation modeling. *Shanghai archives of psychiatry*, 25:390–394.
- Gunzler, D., Tang, W., Lu, N., Wu, P., and Tu, X. (2014). A class of distribution-free models for longitudinal mediation analysis. *Psychometrika*, 79:543–568.
- Hirayama, R. and Kusunoki, T. (2004). Effects of critical thinking attitudes on the conclusion derivation process. *Japanese journal of educational psychology research*, 52:186–198.

Hogan, R. and Hogan, J. (2007). The Hogan personality inventory. Hogan Assessment Systems.

Kamo, Y. (1993). Determinants of marital satisfaction: A comparison of the United States and Japan. *Journal of social and personal relationships*, 10:551–568.

- Kaufman, G. and Taniguchi, H. (2010). Marriage and happiness in Japan and the United States. *International journal of sociology of the family*, 36:25–48.
- Kawashima, A. and Petrini, M. (2004). Study of critical thinking skills in nursing students and nurses in Japan. *Nurse education today*, 24:286–292.
- Kim, M., Hall, M., and Han, H. (2021). Behavioral influences on crowdfunding SDG initiatives: The importance of personality and subjective well-being. *Sustainability*, 13:3796.
- Kimbrough, S. and Kuo, A. (2010). On heuristics for two-sided matching: Revisiting the stable marriage problem as a multiobjective problem. In *Proceedings of the 12th annual conference on* genetic and evolutionary computation, pages 1283–1290.
- Koenker, R. and Bassett, G. (1978). Regression quantiles. *Econometrica*, 46:33–50.
- Koenker, R. and Hallock, K. (2001). Quantile regression. *Journal of economic perspectives*, 15:143–156.
- Kolb, T. and Straus, M. (1974). Marital power and marital happiness in relation to problem-solving ability. *Journal of marriage and family*, 36:756–766.
- Kulkarni, A. L. P. and Jagtap, P. (2010). Emotional intelligence and marital satisfaction. *Journal of psychological researches*, 5:185–194.
- Lavner, J. and Bradbury, T. (2010). Patterns of change in marital satisfaction over the newlywed years. *Journal of marriage and family*, 72:1171–1187.
- LeBaron, A., Kelley, H., and Carroll, J. (2018). Money over marriage: Marriage importance as a mediator between materialism and marital satisfaction. *Journal of family and economic issues*, 39:337–347.
- Lee, K. and Ono, H. (2008). Specialization and happiness in marriage: A US–Japan comparison. *Social science research*, 37:1216–1234.

- Lucas, R. and Clark, A. (2006). Do people really adapt to marriage? *Journal of happiness studies*, 7:405–426.
- Lucas, R., Clark, A., Georgellis, Y., and Diener, E. (2003). Reexamining adaptation and the set point model of happiness: Reactions to changes in marital status. *Journal of personality and social psychology*, 84:527–539.
- Lyubomirsky, S. and Lepper, H. (1999). A measure of subjective happiness: Preliminary reliability and construct validation. *Social indicator research*, 46:137–155.
- Madanian, L., Mansor, S., and bin Omar, A. (2013). Marital satisfaction of Iranian female students in Malaysia: A qualitative study. *Procedia-social and behavioral sciences*, 84:987–993.
- Meunier, V. and Baker, W. (2012). Positive couple relationships: The evidence for long-lasting relationship satisfaction and happiness. In *Positive relationships*, pages 73–89. Springer.
- Musick, K. and Bumpass, L. (2012). Reexamining the case for marriage: Union formation and changes in well-being. *Journal of marriage and family*, 74:1–18.
- Nakagawa, Y. (2016). Effect of critical thinking disposition on household earthquake preparedness. *Natural hazards*, 81:807–828.
- Nakagawa, Y., Kotani, K., Matsumoto, M., and Saijo, T. (2019). Intergenerational retrospective viewpoints and individual policy preferences for future: A deliberative experiment for forest management. *Futures*, 105:40–53.
- O'Connell, M. (2008). *The marriage benefit: The surprising rewards of staying together in midlife*. New York: Springboard Press.
- Perelli-Harris, B., Hoherz, S., Lappegård, T., and Evans, A. (2019). Mind the "happiness" gap: The relationship between cohabitation, marriage, and subjective well-being in the United Kingdom, Australia, Germany, and Norway. *Demography*, 56:1219–1246.

- Qadir, F., Silva, P., Martin, P., and Khan, M. (2005). Marital satisfaction in Pakistan: A pilot investigation. *Sexual and relationship therapy*, 20:195–209.
- Qari, S. (2014). Marriage, adaptation and happiness: Are there long-lasting gains to marriage? *Journal of behavioral and experimental economics*, 50:29–39.
- Rapps, J., Riegel, B., and Glaser, D. (2001). Testing a predictive model of what makes a critical thinker. Western journal of nursing research, 23:610–626.
- Rehman, U., Janssen, E., Newhouse, S., Heiman, J., Holtzworth-Munroe, A., Fallis, E., and Rafaeli,
 E. (2011). Marital satisfaction and communication behaviors during sexual and nonsexual conflict discussions in newlywed couples: A pilot study. *Journal of sex and marital therapy*, 37:94–103.
- Sannomiya, M. and Yamaguchi, Y. (2016). Creativity training in causal inference using the idea postexposure paradigm: Effects on idea generation in junior high school students. *Thinking skills and creativity*, 22:152–158.
- Stack, S. and Eshleman, J. (1998). Marital status and happiness: A 17-nation study. Journal of marriage and family, 60:527–536.
- Stutzer, A. and Frey, B. (2006). Does marriage make people happy, or do happy people get married? *Journal of socio-economics*, 35:326–347.
- Svarer, M. (2005). Two tests of divorce behaviour on Danish marriage market data. *Na-tionaløkonomisk tidsskrift*, 143:416–32.
- Szpunar, K., Spreng, R., and Schacter, D. (2014). A taxonomy of prospection: Introducing an organizational framework for future-oriented cognition. *Proceedings of the national academy of sciences of the United States of America*, 111:18414–18421.
- Taniguchi, H. and Kaufman, G. (2014). Gender role attitudes, troubles talk, and marital satisfaction in Japan. *Journal of social and personal relationships*, 31:975–994.

- Tao, H. (2019). Marriage and happiness: Evidence from Taiwan. *Journal of happiness studies*, 20:1843–1861.
- Tavakol, Z., Moghadam, Z., and Nasrabadi, N. (2020). Marriage, a way to achieve relaxing evolution: A grounded theory investigation. *Journal of education and health promotion*, 9:1–7.
- Tavakol, Z., Nasrabadi, A., Moghadam, Z., Salehiniya, H., and Rezaei, E. (2017). A review of the factors associated with marital satisfaction. *Galen medical journal*, 6:197–207.
- Thompson-Hayes, M. and Webb, L. (2004). Theory in progress: Commitment under construction: A dyadic and communicative model of marital commitment. *Journal of family communication*, 4:249–260.
- Tiefenbach, T. and Kohlbacher, F. (2015). Happiness in Japan in times of upheaval: Empirical evidence from the national survey on lifestyle preferences. *Journal of happiness studies*, 16:333–366.
- Tilburg, W. and Igou, E. (2019). Dreaming of a brighter future: Anticipating happiness instills meaning in life. *Journal of happiness studies*, 20:541–559.
- Toplak, M. and Stanovich, K. (2002). The domain specificity and generality of disjunctive reasoning: Searching for a generalizable critical thinking skill. *Journal of educational psychology*, 94:197– 209.
- Tsou, M. and Liu, J. (2001). Happiness and domain satisfaction in Taiwan. *Journal of happiness studies*, 2:269–288.
- Vanassche, S., Swicegood, G., and Matthijs, K. (2013). Marriage and children as a key to happiness? Cross-national differences in the effects of marital status and children on well-being. *Journal of happiness studies*, 14:501–524.
- VanLaningham, J., Johnson, D., and Amato, P. (2001). Marital happiness, marital duration, and the U-shaped curve: Evidence from a five-wave panel study. *Social forces*, 79:1313–1341.

- Venturini, S. and Mehmetoglu, M. (2019). plssem: A stata package for structural equation modeling with partial least squares. *Journal of statistical software*, 88:1–35.
- Vermunt, R., Spaans, E., and Zorge, F. (1989). Satisfaction, happiness and well-being of Dutch students. *Social indicator research*, 21:1–33.
- Wadsworth, T. (2016). Marriage and subjective well-being: How and why context matters. Social indicator research, 126:1025–1048.
- Waite, L. and Gallagher, M. (2001). *The case for marriage: Why married people are happier, healthier, and better off financially.* New York: Crown Publishing Group.
- Ward, P., Lundberg, N., Zabriskie, R., and Berrett, K. (2009). Measuring marital satisfaction: A comparison of the revised dyadic adjustment scale and the satisfaction with married life scale. *Marriage and family review*, 45:412–429.
- Watson, L. (2019). Educating for inquisitiveness: A case against exemplarism for intellectual character education. *Journal of moral education*, 48:303–315.
- Weston, R. and Gore, J. (2006). A brief guide to structural equation modeling. *Counseling psycholo*gist, 34:719–751.
- Wong, S. and Goodwin, R. (2009). Experiencing marital satisfaction across three cultures: A qualitative study. *Journal of social and personal relationships*, 26:1011–1028.
- Yeh, M. (2002). Assessing the reliability and validity of the Chinese version of the California critical thinking disposition inventory. *International journal of nursing studies*, 39:123–132.
- Yoo, G. and Lee, S. (2019). The associations of national context and subjective well-being with marriage expectations among Korean, Chinese, and Vietnamese emerging adults. *Journal of child and family studies*, 28:1998–2006.
- Zimmermann, A. and Easterlin, R. (2006). Happily ever after? Cohabitation, marriage, divorce, and happiness in Germany. *Population and development review*, 32:511–528.

List of Figures

1	A conceptual framework describing the relationships among future-planning, inquis-	
	itiveness, sense of mis(match) and happiness	26
2	Frequency distribution of subjective happiness	27
3	A boxplot between subjective happiness and sense of mis(match)	28
4	A diagram for the mediation analysis	29









Figure 2: Frequency distribution of subjective happiness



Figure 3: A boxplot between subjective happiness and sense of mis(match)



Figure 4: A diagram for the mediation analysis



List of Tables

1	Definitions of variables	31
2	Summary statistics of the key variables by husbands and wives	32
3	Summary statistics of the key variables by the sense of match and mismatch	33
4	Marginal effects of the independent variables on match in the logit regressions	34
5	Estimated coefficients of the independent variables on happiness in the median re-	
	gressions	35

		Husb	ands			Wi	ves			Ové	erall	
	Mean	SD	Max	Min	Mean	SD	Max	Min	Mean	SD	Max	Min
Happiness	4.70	1.12	7.00	1.25	4.57	1.01	7.00	1.75	4.64	1.06	7.00	1.25
sense of match					I		,		0.59	0.49	1.00	0.00
sense of mismatch	ī	ı	,	,	ı	ī	,	,	0.41	0.49	1.00	0.00
Both-mismatch	ı	ī	ı	ı	ı	ī	ı	ı	0.04	0.21	1.00	0.00
One-side mismatch	·	,	·	·	ı	·	,	,	0.06	0.23	1.00	0.00
Other-mismatch					ı		,		0.31	0.46	1.00	0.00
^a uture-planning discussion	0.54	0.50	1.00	0.00	0.53	0.50	1.00	0.00	0.54	0.50	1.00	0.00
nquisitiveness	50.33	11.52	70.00	14.00	47.61	11.58	70.00	18.00	48.96	11.61	70.00	14.00
Age	43.50	8.63	62.00	26.00	42.10	8.55	59.00	26.00	42.80	8.61	62.00	26.00
Household income	ı	ı	ı	ı	ı	ı	ı	ı	4.46	1.04	7.00	1.00
Education	3.27	1.08	6.00	1.00	2.81	1.19	5.00	1.00	3.04	1.16	6.00	1.00
⁷ amily structure	ı	ı	ı	ı	ı	ı	ı	ı	0.86	0.35	1.00	0.00
Sample size		247				247				494		

	Š
•	Ϋ́
	-
	anc
•	nds
-	usba
	ਵ
	à
	S
-	đ
•	uria
	v Va
	Key
	a)
7	Ē
د	<u>0</u>
	lCS
	lSt
	stat
	2
	ma
	Ē
ζ	N
	ð
F	lab

Me 5.0 nning discussion 0.6 4.5 income 4.5 income 3.0 o.8	Sense an SD an SD 0 0.93 9 0.46 94 11.93 81 9.01 6 1.05 7 1.17 4 0.37	of match Max 7.00 1.00 70.00 62.00 7.00 6.00 1.00	Min 1.75 0.00 18.00 26.00 2.00 1.00 0.00	Mean 4.13 0.32 47.57 42.87 42.87 42.87 42.87 00.88	Sense of SD SD SD SD 1.03 0.47 11.01 8.03 1.00 1.15 0.32 0.32	mismatch Max 7.00 1.00 61.00 7.00 5.00 1.00	Min 1.25 0.00 14.00 1.00 1.00 0.00	Mean 4.64 0.54 48.96 42.80 42.80 4.46 3.04 0.86	Ove SD 1.06 0.50 11.61 8.61 1.04 1.16 0.35 0.35	rall Max 7.00 7.00 62.00 6.00 1.00	Min 1.25 0.00 14.00 26.00 1.00 0.00
	290				204				494		

Table 3: Summary statistics of the key variables by the sense of match and mismatch

			-
	Model 1	Model 2	Model 3
Husband-side future-planning discussion (Base group = Others)	0.25***		0.23***
Wife-side future-planning discussion (Base group $=$ Others)	(0.08) 0.26***		(0.08) 0.29***
	(0.08)	*****	(0.08)
Husband's inquisitiveness		(0.003)	(0.003)
Wife's inquisitiveness		-0.001	-0.003
		(0.003)	(0.003)
Husband's age		0.001	0.00004
		(600.0)	(0.001)
Wife's age		-0.004	-0.01
		(0.01)	(0.01)
Household income		0.08*	0.07*
		(0.04)	(0.04)
Husband's education		-0.02	-0.01
		(0.03)	(0.04)
Wife's education		0.01	0.01
		(0.03)	(0.03)
Family structure (Base group = Extended family)		-0.16	-0.15
		(0.10)	(0.11)
Sample size	247	247	247

Table 4: Marginal effects of the independent variables on match in the logit regressions

Model 2 N	Model 3
I	-1.56^{***}
	(0.25)
I	-0.52^{***}
	(0.23)
Ι	-0.49***
	(0.12)
0	0.41^{***}
	(0.11)
0.02**	0.02^{**}
(0.004)	(0.004)
0.06	0.06
(0.10)	(0.10)
0.01^{*}	0.01
(0.01)	(0.01)
0.001**	0.001*
(0.001)	(0.001)
0.05	0.03
(0.05)	(0.05)
0.001	0.01
(0.04)	(0.05)
-0.01	0.11
(0.14)	(0.15)
494	494
*at the 10 per	rcent leve
	0.004) 0.004) 0.004) 0.06 0.01* 0.001 0.01* 0.001 0.01 0.01 0.01

Table 5: Estimated coefficients of the independent variables on happiness in the median regressions