The Hierarchy of Partner Preferences

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Abstract

We assemble a unique data set of more than a million matrimonial ads to study the evolution of partner preferences. Using ads published in major news outlets from Canada, France and India from 1950 to 1995, we show that stated preferences for economic aspects of an ideal partner have fallen sharply in favour of personality traits in the two Western countries. This shift is particularly apparent after the late 1960s and more marked for women than for men. By contrast, in India, economic criteria have remained the most prevalent over time. We complement these results using data from 41 regional newspapers operating in various parts of the US and Canada in 1995. Across all the regions, we find that personality traits are consistently ranked among the most prevalent criteria, while economic aspects are the least mentioned. We provide evidence that these results are unlikely to be driven by the composition effects over time, choice of newspaper outlets, role of parents or changing social norms. We argue that these evolution reflect a hierarchy of partner preferences, whereby the demand for non-material needs rests on the satisfaction of material needs such as economic ones.

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1 Introduction

Human needs arrange themselves in hierarchies of pre-potency. That is to say, the appearance of one need usually rests on the prior satisfaction of another, more pre-potent need. Man is a perpetually wanting animal.

A. H. Maslow

A Theory of Human Motivation, 1943

What do people look for in a potential partner? A vast literature spanning different fields of the social sciences has shown that economic, personality, physical and taste criteria are all valued in a potential partner.¹ It has established these findings using different methods and data sets. Yet, while we know a lot on whether each of these criteria matters, we know little on where and when they can matter. Are these criteria equally valued in all cultures? Does their importance change as societies develop and evolve?

It is debatable whether partner preferences can be seen as cultural traits. Evolutionary psychologists have argued that partner preferences are primarily driven by our evolutionary past and hence should be common across cultures (Buss, 1989). On the other hand, sociologists have advanced that these preferences are shaped by the socioeconomic environment and may differ across cultures (Eagly and Wood, 1999). On top of this debate, economists have stressed that the role of these preferences in explaining changes in who marries whom over the long term is unclear (Eika et al., 2019, Kirkebøen et al., 2021). Empirical work on this topic remains scarce, mainly because of the paucity of data that allows to consistently quantify partner preferences.

In this paper, we attempt to shed new lights on the evolution of partner preferences. We assemble a novel data set that consists of more than a million matrimonial ads (Section 2).² These ads consist in describing oneself and the desired partner. They are known as the predecessors of dating websites. To document how partner preferences have evolved over time, we collect data from major newspaper outlets published in Canada, France and India over the period 1950-1995. To examine the extent to which preferences may differ over regions, we collect ads published in 1995 in 41 English-speaking newspaper outlets

¹For instance Waynforth and Dunbar (1995), Fisman *et al.* (2006), Hitsch *et al.* (2010), Chiappori *et al.* (2012), Belot and Francesconi (2013), Banerjee *et al.* (2013), Dupuy and Galichon (2014), Bapna *et al.* (2016), Egebark *et al.* (2021).

²Also known as personal ads or lonely heart ads.

from multiple parts of Canada and 38 American States. Using dictionary-based methods, we classify the words used in the ads into four distinct preference criteria: economic, personality, physical and taste (Section 3).

Our principal finding concerns the difference in trajectory between the two Western countries and India (Section 4). In both Canada and France, we show that stated preferences for economic aspects of an ideal partner have fallen sharply, offset by a strong increase in the demand for personality traits. This shift is particularly apparent after the late 1960s and more marked for women than for men. By contrast, the trends in India do not exhibit the same pattern. If anything, economic criteria seem to have become more common over the second half of the 20th century while those related to personality criteria have remained stable. These results are robust to various methodological choices, dictionaries and alternative specifications.

To provide evidence on the regional variations of partner preferences, we analyse cross-sectional data in 1995. In all the 41 regional newspapers from the US and Canada, we find that the distribution of criteria strongly resonates with those found at the end of the period in the time series of the two Western countries. Personality traits are consistently ranked among the most sought for criteria, occupying 30 to 40% of the demand side, while economic criteria are the least mentioned. As for taste criteria, they appear more prevalent in the US than elsewhere due to the importance attached to the race of a partner.

What could explain the shift from the predominance of economic criteria to the rise of personality traits in Western countries? We explore several potential mechanisms (Section 5). As the data do not originate from a repeated representative survey, we first investigate the influence of composition effects. Characteristics of ad writers could have changed in a way that would explain the patterns in the data. We implement a Oaxaca-Blinder decomposition through time using information from the supply side of matrimonial ads to construct variables related to characteristics of ad writers. We show that these changing characteristics over time explain only a minor portion of the results. Additionally, as we selected ads from specific newspapers, one may question how the results would differ if ads had come from a different outlet. To study this possibility, we exploit the cross-sectional data in 1995 and decompose the total variance in the demand for each criterion into variations between and within newspaper outlets. We show that the between variation constitutes less than 2% of the total variance, which suggests that the choice of newspapers outlets is unlikely to drive the results.

Next, we study the influence of parents in the matchmaking process. We compute the evolution of the proportion of ads that mention parents or family in the supply side. The results suggest that parents have been involved consistently more in the Indian marriage markets than in the Western marriage markets but that this has not changed over the period. This suggests that the changing role of parents is unlikely to drive the evolution of partner preferences.

Finally, we discuss whether the trends are likely to reflect an effective change in partner preferences or the emergence of a social norm in Western countries, whereby individuals would be inclined to hide their true economic-based preferences. We provide three pieces of evidence pointing towards a change in preferences and suggesting that the social norm mechanism is unlikely to explain entirely the findings. First, using data from Google N-Grams, we show that the occurrence of economic-related words remained stable in daily language over time. This suggests that this norm does not seem to have appeared at the societal level. Second, we find little evidence indicating that individuals are using more subtle ways to mention economic criteria. Variables correlated with higher earnings such as specific personality traits, tastes or higher age gap do not appear to become more prevalent over time. Third, we compare results obtained with matrimonial ads with those from the literature on partner selection. We find that the ads can replicate well-established stylized facts, suggesting that ad writers are on average at least partly truthful in their stated preferences.

We argue that the trends are most consistent with theories describing the profound changes affecting the family in Western countries during the second part of the 20th century. Over this period, marriage rates dropped while divorce and cohabitation rates surged. Social scientists from various disciplines have argued that these changes partly reflect a shift in partner selection, which is increasingly based on the notion of companionship and love rather than financial assistance (Becker, 1981 in economics, Van De Kaa, 1986 or Van De Kaa and Lesthaeghe, 1987 in demography, Cherlin, 2004 in sociology). This would have mirrored the rise of post-materialist values in Western societies (Inglehart, 1977). At the heart of these theories lies the idea that needs are arranged in a hierarchical form (Maslow, 1943), whereby the demand for non-material ones such as personality criteria rests on the satisfaction of material ones such as economic criteria. The contrast between the Indian evolution and the two Western countries supports this interpretation of the results.

What could have caused these evolution? Several factors have been advanced such

as the legalization of birth control methods or the rising participation of women in the labor market. While the setting of our analysis does not allow to precisely establish the causality between these determinants and the changes in the ads, we show that the decline of economic-related words in the two Western countries is particularly apparent after the mid-1960s and coincides with a narrowing gender gap in labour force participation. By contrast, while the usage of economic criteria in India increased over time, the gender gap in labour force participation shows no diminishing signs.

This paper first contributes to a vast literature studying who marries whom. A large part of this literature has focused on documenting the evolution of assortative mating (Mare, 1991, Fernández et al., 2005, Schwartz and Mare, 2005, Greenwood et al., 2014) Greenwood et al., 2014, 2016, Eika et al., 2019, Chiappori et al., 2020). As these studies observe couples once they are formed, this literature remains unclear on whether the trends are due to changes in preferences or changes in the characteristics of marriage markets (Kalmijn, 1998, Kirkebøen et al., 2021). We provide two contributions to this literature. First, we document the evolution of stated partner preferences over the long term in three countries while most papers identifying partner preferences focus at one point in time (see for instance Fisman et al., 2006, Hitsch et al., 2010, Adams and Andrew, 2019).⁴ Second, we document new empirical facts on partner preferences. The results suggest that (i) partner preferences differ between Western and non-Western countries and that (ii) individuals from Western countries emphasize less economic criteria over time, as suggested by Becker (1981) and Coontz (2006), and indicate that personality traits may have become key elements in the study of partner selection. This resonates with limited literature on the role of personality traits in marital sorting (Lundberg, 2010, Dupuy and Galichon, 2014), certainly due to the paucity of data. Our paper is a generalization of Lippmann (2021) who focuses only on the French context while we focus on the comparison between Western and non-Western countries, study regional variations within one country, highlight potential mechanisms and argue that preferences are arranged under a hierarchical form.

The results are also related to a literature studying the evolution of culture and preferences. This literature has attempted to understand whether and to what extent preferences

³A related literature also attempts to measure the consequences of marital sorting on inequality across households (Fernández and Rogerson, 2001, Ermisch *et al.*, 2006, Breen and Salazar, 2011, Ciscato and Weber, 2020, Frémeaux and Lefranc, 2020) and the intergenerational transmission of inequality (Barth *et al.*, 2020, Falk *et al.*, 2021, Kirkebøen *et al.*, 2021).

⁴Buss *et al.* (2001) is an exception documenting the evolution of preferences in the U.S. using similar surveys from American universities.

and culture can evolve (Voigtländer and Voth, 2012, Falk et al., 2018, Giavazzi et al., 2019, Desmet and Wacziarg, 2020, Giuliano and Nunn, 2021). It has also identified determinants of these evolution such as institutions (see Alesina and Giuliano, 2015 for a review), globalization (Ritzer and Dean, 2019), macroeconomic shocks (Giuliano and Spilimbergo, 2013) or specific public policies (Bau, 2021). We contribute to this literature in two ways. First, we show that the family transformations of the late 1960s in Western countries (Lundberg and Pollak, 2007, Stevenson and Wolfers, 2007, Lesthaeghe, 2014, Frémeaux and Leturcq, 2018) have been accompanied by an evolution of stated partner preferences. We show that these evolution coincide with the rise of female labor market participation and postmaterialistic values (Inglehart, 1977). Second, we use an innovative method to quantify preferences by analyzing classified ads in newspapers.

Finally, this paper also contributes to a growing literature in economics using text analysis and data from newspapers (see Gentzkow et al., 2019 or Ash and Hansen, 2022 for reviews on text analysis and Beach and Hanlon, 2022 on the use of historical newspapers). Newspapers have been used recently in various fields of economics to measure economic policy uncertainty (Baker et al., 2016), predict economic fluctuations (Larsen and Thorsrud, 2019), collect data on conflict events (Fetzer, 2020), measure anti-German sentiment (Ferrara and Fishback, 2020), quantify technology adoption (Caprettini and Voth, 2020), study support for slavery (Masera and Rosenberg, 2021), analyze visual stereotypes (Ash et al., 2021) or construct an index of geopolitical risk (Caldara and Iacoviello, 2022). We expand this literature to the analysis of classified ads and the study of partner selection by assembling and analyzing, to our knowledge, the largest data set of matrimonial ads.

2 Data

2.1 Time-Series: 1950-1995

Our goal is to study the evolution of partner preferences in major world economies with different cultural contexts and stages of economic growth. To that end, we assembled and digitized a novel data set of matrimonial ads. To select the newspapers, we searched through the main online sources of digitized archives of newspapers (see Beach and Hanlon, 2022 for a list) and complemented them with self-digitized newspapers. We focus on the years 1950 to 1995, as the emergence of online dating is considered to start after 1995

(Rosenfeld and Thomas, 2012) and because data constraints were difficult to overcome before 1950. We obtained data for two developed and one developing countries - Canada, France and India. Our data set contains 694,683 matrimonial ads, out of which 100,462 are from Canada, 276,308 from France and 317,913 from India.⁵

Canada. The data for Canada consist of all the matrimonial ads published in the daily newspaper *The Vancouver Sun* from 1950 to 1995. In terms of circulation, this newspaper is the main one in Vancouver and the British Columbia area.

France. The French data consist of all the matrimonial ads published in the monthly French magazine *Le Chasseur Français* from 1950 to 1995. This magazine is the only one in France to have continuously published matrimonial ads across the twentieth century and the main supplier of such ads (see de Singly, 1984).

India. The Indian data consist of all the matrimonial ads published in the daily newspaper, the Times of India from 1953 to 1995. In terms of circulation, this is the third largest newspaper in India and the main one in English.

2.2 Cross-Sectional Data in 1995

To study regional variations in partner preferences, we searched for matrimonial ads published in different regional newspapers in a given country in 1995. The United States and Canada represent ideal settings to study within country differences. First, these two countries contain substantial regional variations. Second, they allow us to compare our results with those obtained in developed countries in the time series. We chose the year 1995 for comparability with the time series and also because online dating became popular after that date.

To select regional newspapers, we searched through newspapers.com which contains the largest collection of historical newspapers (Beach and Hanlon, 2022). Whenever several newspapers were available for a given region, we collect the data from the most widely circulated newspaper that published matrimonial ads. Overall, this data set contains 455,172 matrimonial ads from 41 newspapers (see Table A3 for details on the number of ads by location).

Canada. The data consist of 16,392 matrimonial ads published in the year 1995 in three Canadian provinces - British Columbia, Ottawa and Alberta.

⁵Figures A1, A2 and A3 display examples of ads collected from respectively Canada, India and France.

United States. The data consist of 438,780 matrimonial ads published in the year 1995 in 38 American states.

2.3 Using Matrimonial Ads to Study Partner Preferences

The use of matrimonial ads to identify partner preferences is part of an approach that consists in analyzing preferences before individuals match with their partners. Although the usage of such ads has declined over time, due to the rise of online dating websites, matrimonial ads have been analyzed in several studies, spanning different fields of the social sciences.⁶

There are several features of matrimonial ads that make them ideal for the study of partner preferences. First, matrimonial ad services allow individuals to freely express their preferences. This is similar to eliciting preferences using open-ended questions. It allows to avoid the limitations of survey questions that may prime individuals towards an answer or omit some important attributes (Ferrario and Stantcheva, 2022). Second, matrimonial ads correspond to real situations which may have a consequence on the users' lives. Third, matrimonial ads provide a historical dimension that other sources of data on partner preferences (such as dating websites) lack.

Despite the many advantages that matrimonial ads offer, they are not without limitations. Their main limit for documenting the evolution of preferences is the possibility of a selection bias. The data do not come from a repeated representative survey of the population and it may be questioned how this influences the results. We discuss this issue at length in Section 5.1.1.

3 Method

To study partner preferences stated in the matrimonial ads, we proceed in three steps. First, we identify the part of the ads where individuals express the characteristics of their desired partner. Next, for each country, we create a dictionary that maps words with the preference criteria they indicate in order to quantify the degree to which a given criterion

⁶See for instance Harrison and Saeed (1977) and Waynforth and Dunbar (1995) in psychology, Martin (1980) in history, de Singly (1984) in sociology and Dugar *et al.* (2012) and Banerjee *et al.* (2013) in economics.

is expressed in an ad. Finally, we implement an empirical specification to describe the evolution of partner preferences.

3.1 Disentangling Demand and Supply

Matrimonial ads are usually characterized by a demand side and a supply side (Coupland, 1996). The supply side comprises of the part of the matrimonial ad where the ad placer describes himself/herself. The demand side is the part where the individual describes what the ideal partner looks like. To illustrate this structure, the following sentence is an example of a matrimonial ad written by a woman and published in May 1955 in France.

Single, 38, secretary, 1m62, thin, brown hair would answer to man 40-45, good situation.

This matrimonial ad has three parts. The first part (from "single" to "hair") is the supply side. The woman describes herself and specifies her matrimonial status, age, job, and some physical attributes (height, corpulence, hair). The second part ("would answer") is a delimiter between supply and demand. The last part (from "man" to "situation") is the demand side. She is looking for a man aged 40 to 45 years and with a good economic situation.

In our main results, we focus on the demand side of the ads as this is where individuals express their preferences. To disentangle the demand and supply sides, we computed a list of delimiters for each country (see Table B1). These delimiters allow us to identify the demand side in 90 to 95% of all matrimonial ads. Unless otherwise specified, the focus of this study is on the demand side of matrimonial ads.

3.2 Main Outcomes

To extract the information present in the text, we use a dictionary-based approach. This consists in regrouping words into criteria that convey similar meanings related to partner preferences.⁷

⁷We do not use unsupervised methods for two reasons. First, unsupervised methods are usually suited for long documents and allow to reduce their dimensionality whereas, in our context, ads are short and often contain less than 10 words in the demand side (see Table A2). Second, unsupervised methods could allow to understand how different the ads have become over time. Here, our focus is to understand in which way ads have become different over time. Unless we manually interpret the words (as in dictionary-based methods), unsupervised methods cannot answer this question.

To a large extent, individual marital decisions are driven by gains from marriages. The source of such gains can be based on both economic and non-economic aspects of the partner. We know from the literature that economic-based criteria such as income, education and profession are critical in marital search behavior. Similarly, it has been shown that non-economic aspects such as personality traits (e.g. the Big-5 personality traits), physical attractiveness (e.g. height, body mass index, health), socio-demographic attributes (e.g. race, ethnicity, caste, religion) and idiosyncratic tastes (e.g. hobbies, habits) all play an important role when choosing a partner. We consider all these aspects in our analysis.

Practically, we create a list of words and classify each word into four exclusive criteria: economic, personality, taste/cultural, and physical. To prepare the list of words that we use for the classification, we extract the 500 most recurrent words in the ads for each year in the sample. Next, we manually classify each word into one of the four preference criteria. We leave out the words that did not relate to any category. The list of words classified for Canada is provided in Table 1. The lists for France, India and the US are described in the Appendix (Tables B3, B4 and B5). Below we discuss the four criteria that we use to study partner preferences.

Economic. To create a list of words that exhibit preference toward economic aspect of a partner, we adapt the classifications of Waynforth and Dunbar (1995) and de Singly (1984), who analyzed samples of matrimonial ads published respectively in an American and French outlet.¹¹ We expand the dictionary further by including four sub-criteria. These are general, labor, wealth, and education.

Personality. We describe preference for a certain type of personality by considering the Big-5 personality traits as the sub-categories. They are often labeled agreeableness, extroversion, conscientiousness, emotional stability, and intellect/imagination. We complement these five subcategories with a "general" subcategory that captures words that explicitly mention personality in a general sense (such as "personality" and "character").

⁸Table B2 provides a summary of the key criteria studied in the marriage market literature.

⁹Because the number of matrimonial ads varies per year, computing the most recurrent words on the total sample would have put more weights on words used at times when more ads are published. Yet, this method could classify a greater share of words for years where the number of ads published is low. To address this issue, we show in Section 4.3.3 that the results are robust to different cutoffs to classify words (100, 250, 500).

¹⁰In Section 4.3.2, we use alternative methods that consist in classifying groups of words.

¹¹de Singly (1984) studied a sample of matrimonial ads published in *Le Chasseur Français* in 1978–1979.

To categorize words into personality traits, we rely on existing works of psychologists who mapped lexicons into the Big-5 personality traits. We follow Goldberg (1990) and Boies et al. (2001), who respectively developed a classification of the English and French lexicon into the Big-5 personality categories.

Tastes/Cultural. An individual may also desire to match with someone with specific tastes, hobbies, or cultural preferences. To reflect such preferences, we consider habits, hobbies, religion and demographics (ethnicity and caste) as subcategories within this criterion.

Physical. Finally, the last set of characteristics relates to physical attributes. Along with economic criteria, they are the most discussed in the literature. The sub-criteria are age, height, attractiveness, and general. We discuss the inclusion of age as a physical criterion in Section D.7.1.

Unclassified Words. We present the main unclassified words using word clouds (Figure 1 for Canada).¹² Additionally, in the robustness checks (Section 4.3.3, we vary the number of classified words.

3.3 Empirical Specification

Our aim is to document how partner preferences have evolved over time and how they vary across regions. We quantify the degree to which a given dimension of partner preference is expressed in an ad by computing the share of words in the demand side of the ad that reflect that criterion. Formally, we use our dictionary to count the number of words used in the ad that describe the four aspects (economic, personality, taste/cultural, and physical) of an ideal partner. The proportion of words used for a category measures the extent to which that preference category is expressed in the ad.¹³

To investigate how partner preferences have changed over time, we consider the following specification

$$y_{i} = \alpha + \sum_{\substack{t=1950\\t=1955}}^{t=1995} \beta_{t} y ear_{it} + X_{i}' \gamma + \epsilon_{i}, \tag{1}$$

where i is the subscript for ad i. The outcome variable, y_i , is measured as the share of words used in ad i for a given criteria. $year_{it}$ is an indicator variable that takes a value

¹²Figures B1, B2, B3 for respectively France, India and the US.

¹³In Section 4.3.1, we show that results are robust to using alternative outcomes consisting in the raw count of words related to a criterion and a dummy that equals 1 if a given criterion is included in an ad.

1 if ad i was placed in year t. We omit the year 1955 to use it as a reference year. X_i includes controls for the number of words used in ad i and the month in which the ad was published in order to control for changes in ads' length and seasonality over the year. We estimate equation (1) with ordinary least squares using subsamples from each country and gender. The estimated coefficients β_t capture the degree to which the share of words used for the given preference criteria have changed with respect to the reference year 1955.

4 Main Results

In this section, we first use the time series data to document the evolution of stated preferences in the demand side. Next, we study the regional variations using the cross-sectional data from 1995. Finally, we present various robustness checks.

4.1 The Evolution of Partner Preferences over Time

We start by describing the evolution of economic criteria. Figure 2 displays the trends in estimated β_t for women (graph (a)) and men (graph (b)) from 1950 to 1995 for India, Canada and France.

Looking at graph (a) restricted to women, we observe that the share of economic-related words used to describe a potential partner decreased substantially for ads published in France and Canada by respectively 20.52 p.p. and 30.8 p.p. (baseline of 49% and 31% in 1955). This decline is particularly apparent after the late 1960s. Indian matrimonial ads display a different trajectory. The share of economic-related words remained stable up until the 1970s and then started increasing by about 25.21 p.p. (baseline of 35% in 1955).

In graph (b) restricted to men, we observe similar trajectories although the extent of variation of economic criteria remains lower. Compared to the share used in the year 1955, by 1995 the share of words related to economic criteria in the demand side of matrimonial ads decreased by 17.75 p.p. in France and 11.90 p.p. in Canada. At the same time, it increased in India by 16.09 p.p..

Next, we examine which sub-components of the economic criteria can explain the aggregate trends. In Section C.1.1, we observe that words related to economic criteria in a general way, as well as those referring to labor and wealth significantly declined in France and Canada (education-related terms are not as prevalent). As for India, we observe a

strong increase in the use of words mentioning jobs and labor.

What replaced economic criteria? Figure 3 reports the evolu share of words used for personality criteria over time. Overall, we observe a significant increase in the use of words describing this criterion in both French and Canadian ads. In these two countries, relatively to 1955, the share of words describing the personality of an ideal partner in ads written by women (graph (a)) increased by 21.84 p.p. in France and 14.26 p.p. in Canada in 1995. As for India, the importance of this criterion stagnated over the entire period. The study of the sub-components in Section C.1.2 shows that, for the two Western countries, there is no sub-component of personality criteria that declined. The personality traits that seem to experience an increased demand over time are Agreeableness, Extroversion as well as Emotional stability. As for India, there are no apparent changes in any of the sub-components of the personality traits.

Regarding physical and taste-related criteria, Figures 4 and 5 show that the shares of words describing these aspects have remained roughly stable over the second half of the century in the two Western countries. The trends in the Indian data indicate that the increase in the share of economic criteria is explained by small declines in the share of words used for physical and taste criteria.

4.2 Regional Variations in Partner Preferences

In the previous section, we examined whether and how partner preferences evolved over the second half of the 20th century in three major economies. But to what extent do these trends vary over space in a given country? Answering this question is important to understand whether the time-series can be thought as representative of their countries. To that end, we use a cross-sectional data of matrimonial ads collected for the 1995 from 41 English-speaking regional newspapers published across different states in the US and three Canadian provinces.

We compute the mean values of the shares of words used for the four criteria among all ads within a region. The results are depicted in Figure 6. We find that across all the regions considered and for both men and women, personality traits are among the most sought for criteria in a potential partner. Looking at graph (a), about 40-45% of the words used by women to describe their ideal partner are related to personality criteria. Economic criteria are the least mentioned occupying about 10% of the demand side. Similarly, in graph (b),

we observe that, across all the regions, personality criteria are among the most prevalent criteria mentioned by men, occupying 30 to 40% of the demand side while economic-related words are the least used (roughly 5%). These findings resonate with the patterns in the matrimonial ads from Canada and France, where we found that by the end of the 20th century individuals used the largest share of words to describe personality of their ideal partner.

The main difference between the US and Canada relates to the importance of taste criteria which appear to be slightly more prevalent than personality ones in the US for both women (graph (a)) and men (graph (b)). In Figure C16, we show that this greater prevalence of taste criteria is due to the increased importance of race in the US. Without this criterion, the demand side for the US look strikingly similar to those of Canada and France (Figure C17).

4.3 Robustness Checks

In this section, we test the robustness of our findings to alternative methodological choices. First, we examine if our results hold when using alternative definitions of outcome variables. Second, we check whether our conclusions would change if we modify our dictionary to contain more complex linguistic terms (e.g. by including two-words expressions). Third, we study whether the lengths of dictionaries affect the results.

4.3.1 Alternative outcome variables

Our main results used the shares of words related to a criterion. Here we consider two alternative outcomes - (i) the number of words used to describe a criteria and (ii) an indicator for presence of a criteria. Formally, we estimate equation (1) defining y_i as either the number of words used for a particular category in the demand side of ad i or a dummy variable that equals one if the demand side of ad i contains at least one word from a particular category. The results are shown in Section C.4.1. We observe essentially similar trends whereby economic-related words have become less prevalent in the two Western countries and replaced by personality ones while the distribution of these criteria has remained mostly stable in India.

4.3.2 Counting bigrams and two-words expressions

When defining our outcome variables, we used a dictionary that contained one-word expressions. However, ads can include two-words expressions to refer to a criterion. For instance, individuals may use additional words to emphasize a criterion (e.g., "very wealthy" instead of solely "wealthy"). To account for this possibility, we use a syntactic dependency parser that allows us to reweigh the criteria by adding words referring to a criterion (the method is explained in Section C.4.2). Figure C23 shows the evolution of the share of words used for economic criteria in the demand side of the ad with and without these weights. We find that the two trends are essentially the same, suggesting that the results are not driven by these two-word expressions.

4.3.3 Alternative Cutoffs

To compute the four criteria used as outcome variables, we extracted the top 500 words for each year in the sample of matrimonial ads. In this section, we show that the results are robust to using alternative cutoffs such as 100 and 250 for the list of most common words. The results are described in Section C.4.3 and are essentially similar to the main findings. This could be expected as the distribution of words within a text usually follow a Zipf's law whereby their frequency is proportional to their rank.

5 Mechanisms

The previous results indicate that stated preferences for economic aspects of an ideal partner have fallen sharply in favour of personality traits in the two Western countries while they increased in India. Additionally, the demand for personality traits increased in the two Western countries. What explains these evolution?

5.1 Composition Effects

We study whether the results can be explained by a changing pool of ad writers over time or the choice of newspaper outlet in our data sets.

5.1.1 Over time

The data sets used in this paper do not stem from repeated representative surveys of a given country. They originate from ads sent by individuals at different points in time. This raises the possibility of composition effects, whereby the type of individual posting ads would change over time in a way that explains the changing demand for each criterion.

It should first be noted that the period studied in this paper ranges from 1950 to 1995. Over this time span, there was very little innovation on the matchmaking market. The first online dating website was created in 1995 and speed-dating events did not exist prior to 1996.¹⁴ Therefore, there were few alternatives to matrimonial ads on this market, reducing potential concerns that some ad writers would start using a different technology.¹⁵

Moreover, changes in the characteristics of ad writers over this period are likely to be the product of two channels: (i) the pool of individuals using matrimonial ads within society, and (ii) the structure of society. For instance, in Western societies, jobs in the tertiary sector became prevalent over time and we expect to see more of them in the ads. Therefore, changes in the characteristics of ad writers are likely to provide an upper bound of the "true" composition effects caused by the nature of the data.

Oaxaca-Blinder decomposition. To quantify composition effects over time, we exploit the supply side of matrimonial ads to construct variables related to the characteristics of individuals. The variables are: age, age squared, job, mention of children, mention of education, matrimonial status, explicit mention of marriage, ethnicity, religion and caste (for India). Using these variables, we perform a Oaxaca-Blinder decomposition through time using the year 1955 as a reference and the share of words related to economic criteria in the demand side as the main outcome variable. This method allows to identify the unexplained component of the trends that is not driven by composition effects. If they play a minor role, we expect the unexplained trends to be essentially similar to the overall trends.

The results are displayed in Figure 7. Overall, the composition effects seem to explain a minor part of the findings as the unexplained trends are essentially similar to those presented in Section 4.1. For women (graph (a)), we observe a decline of the importance of

¹⁴Rosenfeld and Thomas (2012) argue that online dating became popular after 1995.

¹⁵In France, the share of marriage originating from matrimonial ads appeared low but relatively stable over the 20th century and ranged from 1 to 3% (Bozon and Héran, 1987).

¹⁶The construction of each variable is described in Section D.1.

economic criteria by about 25 p.p. over time in the two Western countries. The decline is particularly apparent after the 1970s. Similarly, for men (graph (b)), we observe a decline of the demand for economic criteria by about 20 p.p. in France and Canada. On the opposite, in India, we observe a slight increase in the importance of economic criteria for both women and men.

Sub-Sample analysis. As the information in the supply side is self-reported, individuals may strategically omit, reveal or approximate some of their characteristics. The implicit assumption for our decomposition is that these strategies do not vary over time. For instance, older individuals would consistently under-report their age over time. If these individuals changed their strategy, the decomposition would underestimate the explained component. To circumvent this issue, we also perform a sub-sample analysis for all the above-mentioned characteristics in order to study whether the trends are visible for all the subgroups. The results are displayed in Section D.2. We find that the trends are essentially similar in all the sub-samples studied which suggests that the decrease of words related to economic criteria is common to the groups defined by the variables mentioned above.

The role of economic criteria in the supply side. The economic situation of individuals writing ads could also have deteriorated over time. This could lead them to lower their expectations related to the economic aspects of the ideal partner and demand less economic criteria over time. To study this possibility, we control for the share of economic criteria in the supply side. The results are described in Figure D5. They are essentially similar, suggesting that the presence of economic criteria in the supply side does not appear to be correlated with lower expectations related to economic criteria.

5.1.2 Choice of newspaper outlets

Another potential source of composition effects stems from the selection of newspapers used to constitute the data set. Individuals could self-select and pick a newspapers depending on several factors such as their partner preferences or the content related to the primary activity of these news outlets (as in Gentzkow and Shapiro, 2010). If that was the case, ads could differ significantly between newspapers. The previous results would not reflect overall trends on the matrimonial ads market but simply those related to newspapers we study.

To investigate this possibility, the first best solution would be to obtain ads from several newspapers over the long term in the same country and compare the results. Unfortunately,

to our knowledge, there are very few newspapers that have continuously published matrimonial ads over such a long period of time. Most of them have published these ads sporadically or have gone bankrupt.¹⁷

Therefore, we exploit the cross-sectional component of our data set collected in 1995 from newspapers published in different parts of the US and Canada. As indicated in Section 2, these newspapers have in common to be widely circulated in a given region but also vary in several dimensions such as their region of origin, diffusion, political inclination, readerships, etc. While we cannot distinguish between these components, their study can give us an indication on the extent of the variations between newspapers. In particular, if the choice of newspapers was unlikely to drive the results, we expect that ads would be more similar between newspapers than within them.

We use two alternative methods. The first one decomposes the variance of the demand for each criterion within and between newspapers. It consists in measuring whether two randomly drawn ads are more likely to differ across newspapers or within them. The second method directly quantifies the explanatory power of newspapers fixed-effects to explain the demand for each criterion, using the R^2 resulting from a standard OLS specification where the outcome is the share of words related to a specific criterion and the explanatory variables are newspapers fixed-effects (41 categories) in 1995.

The results related to the variance decomposition are displayed in Table 2. In Panel A, we observe that the variance within newspapers in the demand for personality criteria is about 7 times higher than the variance between newspapers, suggesting that ads are more likely to differ within than between newspapers. The magnitude is similar for ads written by both men and women. In Panel B, we observe a similar pattern for the demand for economic criteria. If anything the decomposition of the variance indicates that the within variance explains a larger part of the overall variance. Additionally, in Table D2, we also display the explanatory power of newspapers fixed-effects using the R^2 . We find that they explain less than 2% of the variance of the demand for each criterion, comforting the findings from the variance decomposition. Therefore, both methods suggest that ads are more dissimilar within than between newspapers and that the selection of newspapers is unlikely to explain the relative importance of each criterion in the matrimonial ads.

¹⁷For instance, in the US, the New York Times used to publish matrimonial ads in the late 19th century. In the UK, the Matrimonial Times published ads from the late 19th century to the mid 1950s and stopped being published afterwards.

5.1.3 Over-representation of unsuccessful ads

Composition effects could also stem from the overrepresentation of unsuccessful ads. Over time, individuals who are unsuccessful in finding a partner might continue to send ads and those who are successful might stop sending ads. As a result, there would be an over-representation of the former type which might explain the results.

To study this channel, we quantify the share of similar ads over time. Although the ads are anonymous, we assume that the same individuals would send ads that are similar to a certain extent. To measure similarity, we computed the Jaccard similarity coefficient for every pair of ads in the sample. This coefficient corresponds to the percentage of words that are shared by two ads. We replicate the main results in Section D.5 for two thresholds: 50% and 70%. We observe that the results are essentially similar without similar ads, suggesting that the repeated sending of unsuccessful ads is unlikely to explain the results.

5.2 The Role of Parents

Another possibility explaining the diverging evolution of the share of words related to economic criteria between the two Western countries and India relies on the role of parents. The existing literature has suggested that parents may emphasize the role of economic criteria when searching a potential partner for their children (Adams and Andrew, 2019, Raiber et al., Forthcoming). This could drive the trends if ads written in Western countries had been decreasingly sent by parents while their presence had increased in India.

To investigate this mechanism, we computed the evolution of the share of ads mentioning the words "parents" or "family" in the supply side. The results are displayed in Figure 8. We observe that the mention of parents is consistently higher in Indian ads than in their Western counterparts where it is nearly non-existent and consistently below 5%. In India, about 30% of ads written by women have mentioned parents (graph (a)) and this share has risen from less than 20 to about 25% in ads written by men (graph (b)).

Therefore, there is little evidence suggesting that the role of parents has evolved differently between the three countries. The level of the mention of parents has been consistently higher in India but the variation in the presence of parents does not appear to have changed throughout the second part of the 20th century. Moreover, in Figure D8, we show that the difference between ads depending on the mention of parents is relatively minor in India

¹⁸For instance, a coefficient of 50% indicates that the two ads share 50% of the words in common.

and could not explain the increase of economic criteria (the sample size is too small for the two Western countries).

5.3 The Emergence of a Social Norm?

A possible mechanism explaining our findings could be that stated preferences have diverged from actual preferences over time. A social norm could have emerged in Western countries prescribing that economic criteria should not be explicitly mentioned in partner preferences. This would lead individuals to increasingly hide their true preferences regarding economic criteria. We discuss this mechanism in this section.

5.3.1 Have economic topics become less prevalent over time in daily language?

We first consider whether a norm related to the mention of economic topics has emerged at the societal level. It would apply to the marriage market as well as to other fields and lead to a lower prevalence of economic topics in daily language. As a consequence, the trends observed in the ads would simply accompany the evolution of the prevalence of economic subjects at the societal level.

To investigate this channel, we exploited data from the English corpus of Google N-Grams.¹⁹ It is based on a data set that contains about 6% of books ever published in English (Michel *et al.*, 2011). We use exactly the same set of words for each criterion (as described in Section 3.2) and plot the evolution of these criteria over time. If a norm had emerged at the societal level, we should observe a declining prevalence of economic-related words in favor of those related to personality traits.

Figure 9 depicts the evolution of the prevalence of each criterion. Two elements can be observed. First, economic criteria appear to be the most important ones in the corpus, followed by personality and physical criteria. This contrasts with Figure 6 showing that economic criteria were the least mentioned in the matrimonial ads published in Canada and the US. Second, the ranking of these criteria appears to have remained relatively stable over the period. Economic criteria occupied nearly 50% of words in 1950 and this share had slightly decreased to about 45% in 1995 while personality criteria remained at about 30% over the entire period. These results suggests that the trends observed in the matrimonial ads are not a simple product of a societal norm and changes in everyday vocabulary.

¹⁹https://books.google.com/ngrams

5.3.2 Indirect ways to demand economic criteria

The previous findings do not rule out the possibility that the social norm is specific to the marriage market. This norm would prescribe that economic topics should not be mentioned in stated partner preferences while their importance would remain intact in actual partner preferences. As we cannot observe actual preferences, it is difficult to settle this question. Nevertheless, we can assume that individuals may comply with this norm by using indirect ways to demand economic criteria.

Supply Side Analysis. A first possibility could be to mention economic criteria in the supply side. Although the demand side is arguably where we are most likely to observe preferences, the supply side includes information that was mentioned strategically in order to attract potential partner. If economic criteria were still valued, individuals would have kept mentioning their economic situation. To study this possibility, Figure 10 displays the trajectory of economic criteria in the supply side of matrimonial ads. We see that there was a significant decline in the usage of economic-related words in both Canada and France particularly after the late 1960s. As for India, the usage of economic-related words also seems to have remained stable. Additionally, in Section C.2, we show that the rest of the criteria display similar trends in the supply side. These findings suggest that the supply side is not used as an indirect way to mention economic criteria.

Decomposing Personality Criteria. A second possibility could be to mention characteristics correlated with economic criteria. To investigate, we first decompose the evolution of personality criteria in Section C.1.2. In both Western countries, we observe that stated preferences related to "Emotional Stability" have increased, as well as "Agreeableness" for France which remained at a high but stable level in Canada, and "Extroversion" for Canada. Are these personality traits used as indirect ways to demand economic criteria? Findings from the existing literature suggest that it is unlikely. First, "Conscientiousness" is considered to be the key criterion positively correlated with achievement and earnings (Hogan and Holland, 2003, Almlund et al., 2011, Gensowski, 2018) whereas its mention does not change over the period. Second, the influence of "Extroversion" on achievement remains controversial in the literature. Finally, "Agreeableness" has been shown to be

²⁰Gensowski (2018) finds a positive association between "Extroversion" and earnings while earlier work by Goldberg *et al.* (1998) and Van Eijck and De Graaf (2004) find a negative correlation with educational attainment.

negatively associated with earnings.²¹

Age Gap. Another possibility to express an indirect preference for economic criteria could rely on age. In the main results, we categorized age as a physical criterion but it could be argued that searching for someone older indicates a preference for someone with higher earnings. To investigate, we study the evolution of the age gap in Figure D9. We show that the age gap does not seem to evolve for men while women are less and less looking for partners older than them. Therefore, if anything the evolution of the age gap also suggests a decreasing demand for economic criteria.

5.3.3 Are stated preferences aligned with actual preferences?

Stated preferences in the matrimonial ads published in the two Western countries mention directly and indirectly economic criteria significantly less over time. This does not rule out the existence of a social norm that may prevent individuals from expressing any of their preferences in the ads. As a consequence, stated preferences would reflect how individuals should describe the ideal partner rather than what they are actually looking for, consciously or unconsciously. To provide evidence on this question, we examine how stated preferences in the ads differ from well-established facts on partner preferences.

The literature on partner preferences has established a set of facts considered to be common to nearly all societies (Buss, 1989, Fisman *et al.*, 2006). These facts are that: (i) men value physical attractiveness more than women do, (ii) men have a preference for younger partners whereas women tend to prefer older partners and (iii) women value cues to resource acquisition such as income or financial prospects more than men do.

We find that the preferences expressed in the ads strongly resonate with the stylized facts on gender differences in mate preferences. In Section D.7.2, we show that our data are able to replicate these stylized facts for the entire period (1950-1995) and all the three countries (Canada, France and India). Women consistently put a greater emphasis on the demand for economic attributes in the three countries (Figure D10) while men attach more importance to physical attributes (Figure D11). Finally, we see that women express the desire to find an older partner more often than men do (Figure D12). Arguably, these findings do not completely rule out the existence of a social norm. Yet, they provide

²¹We also studied the evolution of taste-based criteria in Section C.1.4. In Canada, only the category related to demographics seems to be increasingly more mentioned.²² In France, the category related to hobby increases slightly over time and cannot compensate the decline in economic criteria.

additional supporting evidence that the preferences stated in the matrimonial ads partly correspond to the actual preferences in society.

5.4 A Change in Partner Preferences?

Why would partner preferences evolve over the second half of the 20th century? In this section, we discuss and provide evidence on the potential mechanisms leading to a change in partner preferences.

5.4.1 The transformations of the 1970s in Western countries

In the second half of the 20th century, the Western family underwent profound changes. Economists have described the radical alteration of the family in Western countries (Becker, 1981), demographers have advanced the concept of "Second Demographic Transition" (Van De Kaa, 1986; Van De Kaa and Lesthaeghe, 1987) while sociologists advanced the idea of the "deinstitutionalization of marriage" (Cherlin, 2004). At the heart of these theories and descriptions lie observations common to many Western countries such as the drop in marriage rates, the surge of divorce rates, the normalization of cohabitation and the postponement of fertility occurring at the turn of the 1970s.

The timing of these evolution coincides with the timing of the evolution of partner preferences expressed in the matrimonial ads. Therefore, the mechanisms explaining the evolution of partner preferences could be found in the same determinants explaining the transformations of family. The existing literature has suggested that these determinants include the rising participation of women to the labor market, the legalization of birth control methods and a shift in cultural values. Hence, if these mechanisms should explain the evolution of partner preferences, we would expect them to be influential in the two Western countries but not in India.

The rising participation of women to the labor market fits this criterion. In Figure 11, we depict the evolution of the share of words related to economic criteria along with the gender gap in labor market participation. We observe that in both France and Canada, the decrease in the demand for economic criteria coincides with a decreased gender gap, particularly after the 1960s. On the opposite, female labour force participation rate in India is known to have stagnated at low levels and even fallen in recent years (Fletcher et al., 2017). We can see in Figure D13, that the gender gap did not decrease and that the

demand for economic criteria increased over the second half of the century.

What could lie behind the correlation between partner preferences and female labor market participation? It could reflect a causal relationship, whereby women gained economic independence leading them to search less for economic criteria in a potential partner. Men would adjust to the declining demand of women. This would also explain why the decline in the demand for economic criteria is larger for women than for men. This correlation could also be partly caused by another variable explaining both the increased female labor force participation and the decreased demand for economic criteria. This variable could be the shift in values described in Western countries. This would explain partly why men decreased their demand for economic criteria. With the data at hand, we are unable to settle this question.

5.4.2 A hierarchy of partner preferences?

Observing the changes in the family in Western societies at the turn of the 1970s, social scientists have hypothesized that they may reflect a greater individualization of society and an aspiration towards a need for fulfillment and self-actualization. Individuals would be increasingly looking for partners with whom they can share their lives (Lesthaeghe, 2014). The theoretical basis for this interpretation is Maslow's theory of needs (Maslow, 1943) which postulates that, as individuals satisfy first order needs such as physiological and security needs, they develop other less material needs related to individual fulfilment and self-actualization. Needs are arranged in a hierarchical form where the demand of one rests on the satisfaction of the previous one.

Our results bring empirical support for these theories which help us understand why personality traits are increasingly mentioned in the two Western countries. Individuals would first seek to satisfy first-order economic needs directly related to physiological and security needs, and then, as societies develop, individuals' needs would shift away from materialistic needs and focus on partner's personality, related to individual's needs of fulfillment and self-actualization. This evolution could thus be characterized as a hierarchy of partner preferences.

A well-known application of this theory lies in the concept of postmaterialism popularized by Inglehart (1977). It argues that, in the 1970s, Western societies have placed greater importance on non-material goals such as self-expression, autonomy and freedom. To test whether we observe this difference between the two Western countries and India, we use

data from the World Values Survey in 2006.²³ In Figure 12, we observe that individuals from Canada and France declare significantly more post-materialist values than those from India. The Inglehart index is respectively of 2.77 and 2.67 for France and Canada while it is at 2.05 for India. In fact, some studies have found that India is the only exception where young are less likely to have postmaterialist values than their elders (Inglehart and Abramson, 1994).

The increased relative importance of economic criteria in India can be explained by the fact that, over the period of study, India was in the phase of rising materialism that accompanies early industrialisation. A slow rise of industrial and service sectors, after India's independence in 1947, had began to shift the workforce from agricultural to service-based and paved the way for a rising middle class. Indeed, we see that the rise of economic criteria is primarily driven by the use of words related to labor market outcomes (see Figure C3). We can argue that the postmaterialist phenomenon exhibited in the advanced industrial economies of France and Canada, did not yet emerge in India where the population was rapidly growing and the economy had only just taken-off.

5.5 Discussion on the Implications for Assortative Mating

A related literature seeks to quantify the evolution of couples' characteristics over the long term. Recent findings from this literature suggest that assortative mating in terms of education has increased in several Western countries over the last decades (Greenwood et al., 2014, Eika et al., 2019, Chiappori et al., 2020). Nevertheless, this literature remains evasive on the underlying mechanisms and does not distinguish whether this is due to preferences - who one wishes to meet - or to the marriage market - who one can meet. How can our results be used to interpret these developments?

As our results point towards a decreasing role of economic criteria, a first possibility could be that the changes in the degree of assortative mating are not due to changing preferences but to a changing role of marriage markets. In recent decades, there has been a remarkable reduction in gender inequalities, leading to an increasing number of women pursuing the same education and occupations as men. These two places - school and work - are part of main meeting places for spouses (Rosenfeld and Thomas, 2012). Thus, changes in the degree of assortative mating could be the result of spouses meeting more frequently

²³Unfortunately, 2006 is the only year where the three countries are present in the data set. As values evolve slowly, this can approximate the differences in attitudes towards the end of the period in 1995.

either at school or at work (or through friends from these places), i.e. within a pool of individuals sharing similar characteristics. This interpretation is in line with studies that highlight the importance of the role played by college as a marriage market (Kirkebøen et al., 2021, Artmann et al., 2021).

A second possibility lies in what it means to value the personality traits of a partner. Individuals might be increasingly looking for someone with whom they get along and mention personality traits as a proxy for this preference. This hypothesis is suggested by several social scientists (Becker, 1981, Van De Kaa and Lesthaeghe, 1987, Cherlin, 2004). It is also consistent with our data as we observe in both Western countries that the taste-based criteria have also increased. One implication of this hypothesis is that homogamy in terms of education is an indirect consequence of finding a spouse with whom one gets along. It would not be sought as such but correlated with the desired characteristic.

6 Conclusion

This paper studies the evolution of partner preferences over the second part of the 20th century. We constituted a new data set that consists of about one million matrimonial ads published in Canada, France, India and the US. Using these data, we document that the demand for economic criteria significantly decreased in the two Western countries while it remained stable in India. The decrease in economic criteria was offset by a large increase in the demand for personality ones in Canada and France. As for other criteria, such as physical and taste-based ones, their importance seemed to have remained stable over time. Using cross-sectional data in 1995 from multiple regional newspapers published in the US and Canada, we show that personality criteria are consistently ranked among the most sought for criteria in a potential partner while economic criteria are the least mentioned.

Investigating the mechanisms, we show that our results are unlikely to be driven by composition effects or the changing role of parents in the matchmaking process. We study the possibility of the emergence of a social norm leading stated preferences to diverge from actual preferences. We provide evidence suggesting that this norm cannot entirely explain the evolution in the matrimonial ads. Finally, we discuss why partner preferences could have evolved over the second part of the 20th century. In the two Western countries, the timings of the changes observed in the ads coincide with profound transformations of the family and the rise of female labor market participation. We argue that the change in

preferences could have accompanied these changes. They are consistent with the existence of a hierarchy of partner preferences, whereby the demand for non-material needs such as personality ones rests on the satisfaction of material needs such as economic ones.

Methodologically, the main contribution of this paper is to exploit classified ads published in historical newspapers to document the evolution of partner preferences. These data come with limitations, discussed in the paper, but also have certain advantages such as allowing us to quantify the historical evolution of partner preferences, a topic on which data limitations are pervasive. Future research could thus attempt to expand the data set to more contexts and countries in order to better understand the extent of the changes described in this paper. It could also try to collect data from other parts of newspapers. Classified ads related to the supply and demand of jobs could be a fruitful extension.

The main takeaway from our findings is that partner preferences have evolved in the second part of the 20th century differently for Western countries and India. This suggests that partner preferences can partly be seen as cultural traits that respond to evolution of society. The early 1970s in Western countries seem to have been a turning point. This period coincides with several phenomena such as the rise of female labor force participation. While our data is useful to identify the period of changes, it does not allow us to identify the causal mechanisms responsible for the changes in partner preferences. Future research could attempt to bridge this gap.

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Tables

Table 1: Details on Topic Classification - Canada

Topic	Keywords			
Panel A: Economic Criteria				
Education	educ, school, student, university (4)			
General	background, financially, income, means, money, rich, wage (7)			
Labor	business, career, employment, engineer, executive, farmer, fisherman, homemaker, house-			
	keeper, job, logger, nurse, pension, position, prof, profession, retired, superintendent, teacher, tradesman, work, worker (23)			
Wealth	asset, car, home, house, property, wealthy (6)			
Panel B: Personality Criteria				
Agreeableness	affect, affectionate, agreeable, amiable, casual, charming, considerate, easygoing, friendly, gentle, helpful, honest, honesty, humor, humour, informal, kind, laugh, laughter, moral, natural, nice, pleasant, polite, reasonable, respectful, sensitive, simple, sincere, smiling, understanding, warm, warmhearted (33)			
Conscientiousness	careful, dependable, hardworking, loyal, purposeful, reliable, responsible, sober, steady steadily (10)			
Emotional Stability	emotional, independent, peaceful, secure, stable (5)			
Extraversion	active, adventurous, ambitious, assured, cheerful, communicative, confident, energetic, fun, funny, happy, joy, loving, outgoing, playful, quiet, romance, romantic, shy, social, sociable, spirited, spiritual, spontaneous, vivacious, witty (26)			
General	character, personality (2)			
Intellect	artistic, bright, broadminded, creative, cultured, intel, intellectual, intelligent, refined, smart, sophisticated, worldly (12)			
Panel C: Physical Criteria				
Age	20s, 30s, 40s, 50s, 60s, age, elder, old, older, young, younger (11)			
Attractiveness	attr, attractive, beautiful, cute, goodlooking, handsome, pretty, sensual, sensuous (10)			
General	athletic, blond, brunette, eyes, fit, hair, handicap, health, healthy, lbs, look, physical, plump,			
II.a.i.mb.t	plumpish, slender, slim, weight (17)			
Height	height, petite, tall (3)			
Panel D: Taste-Based Criteria				
Demographics	american, asian, black, british, canadian, caucasian, chinese, danish, dutch, european, french, german, hispanic, hungarian, indian, irish, japanese, norwegian, orient, polish, race, racial, scandinavian, ukrainian, white (25)			
Habit	drink, drinker, drug, habit, nondrinker, nonsmoker, smoke, smoker, taste, vegetarian (10)			
Hobbies	animal, art, bike, boat, book, bowl, camp, chess, concert, cook, cycle, dance, disco, dog drawing, fish, garden, golf, hike, hobby, hockey, holiday, hunt, jazz, music, read, sail, show ski, sport, swim, tennis, theater, theatre, travel (35)			
Religion	catholic, christian, jewish, protestan, religion, sikh (6)			

Notes: these words are used to classify ads published in the $Vancouver\ Sun$ in Canada. Out of the 1550 most recurrent unique words, the numbers of words classified is 280 (18.06%).

Table 2: Variance Decomposition Within and Between newspapers in 1995

Variance	Women	Men	
Panel A: Deman	d for Personality criteria		
Overall	0.373	0.371	
Between	0.055	0.047	
Within	0.369	0.368	
Panel B: Deman	d for Economic criteria		
Overall	0.189	0.142	
Between	0.031	0.016	
Within	0.187	0.142	

Notes: the data come from matrimonial ads published in 41 English-speaking newspapers from the US and Canada in 1995. The Table shows the variance decomposition within and between newspapers in the demand for personality (Panel A) and economic (Panel B) criteria.

Figures

Figure 1: Word Clouds of Unclassified Words - Canada



Notes: the data come from the $Vancouver\ Sun$ in Canada. It represents unclassified words.

(a) Women (b) Men Ņ ဗု 1950 1955 1960 1965 1970 1975 1985 1990 1950 1960 1965 1970 1975 1985 1990 1995

Figure 2: Evolution of the Demand for Economic Criteria

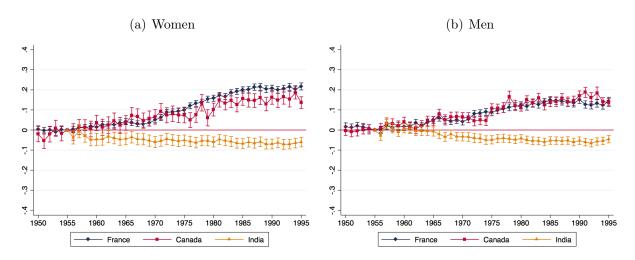
Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to economic criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

India

India

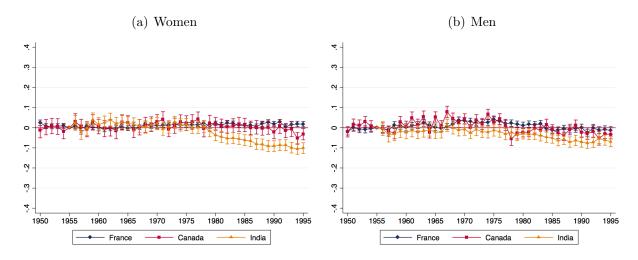
Canada

Figure 3: Evolution of the Demand for Personality Criteria



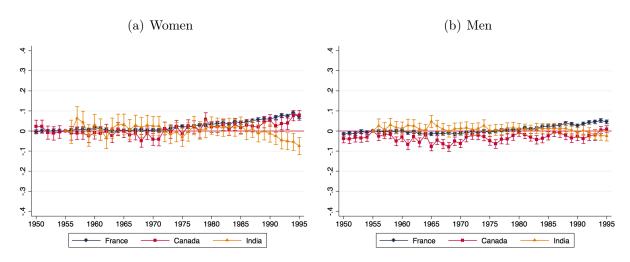
Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to personality criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

Figure 4: Evolution of the Demand for Physical Criteria



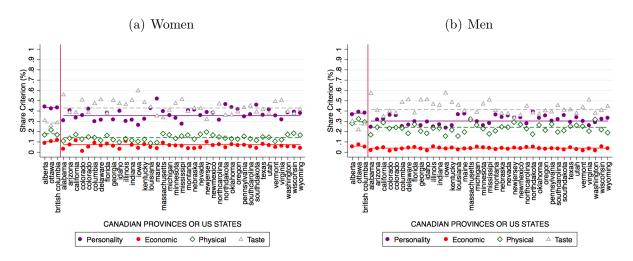
Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to physical criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

Figure 5: Evolution of the Demand for Taste Criteria



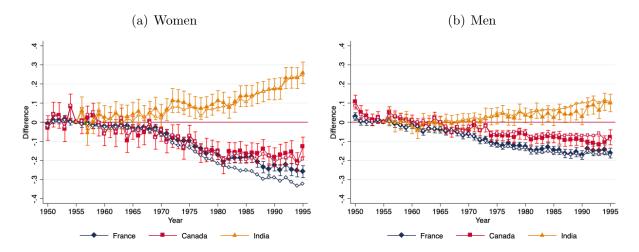
Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to taste criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

Figure 6: Demand - Prevalence of Each Criterion in 1995 in the American and Canadian Newspapers Ads



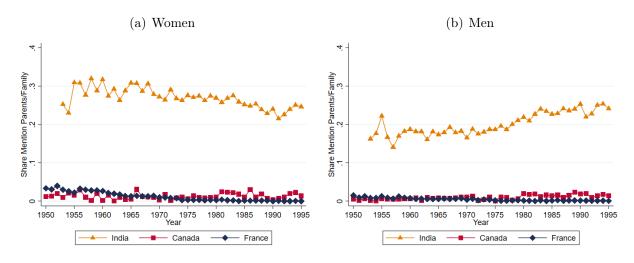
Notes: the data come from American and Canadian Newspapers in 1995. The y-axis depicts the average share of words related to each criterion in the matrimonial ads published in a given newspaper. The x-axis represents the regional area covered by the newspapers (Canadian Province or US State). Graphs (a) and (b) respectively include ads written by women and men.

Figure 7: Estimating the Influence of Composition Effects - Oaxaca-Blinder Decomposition



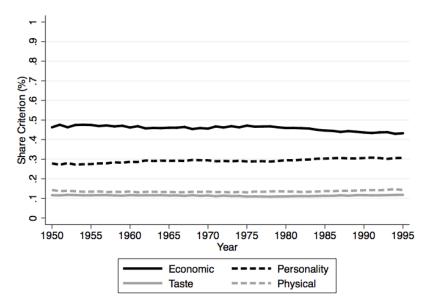
Notes: the data come from matrimonial ads published in France, Canada and India. Confidence intervals at the 95% level are represented. The outcome variable is the share of words related to economic criteria in the demand side. Colour filled (white filled) markers correspond to the unexplained (overall) difference between one given year and 1955. Controls include age, age squared, job, mention of children, mention of education, matrimonial status, explicit mention of marriage, ethnicity, religion and caste (for India). The construction of each variable is described in Section D.1. Graphs (a) and (b) respectively include ads written by women and men.

Figure 8: Mechanism - The Influence of Parents



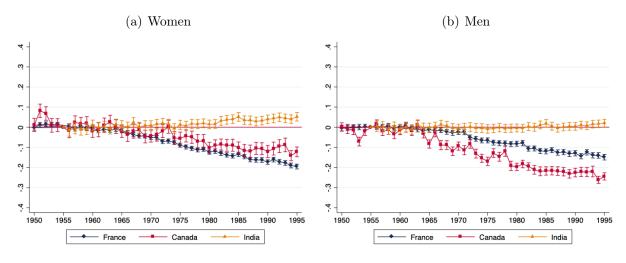
Notes: the data come from matrimonial ads published in Canada, France and India. The y-axis represents the share of ads that mention parents in the supply side. Graphs (a) and (b) respectively include ads written by women and men.

Figure 9: Mechanism - Are the Trends Due to Transformations of the language?



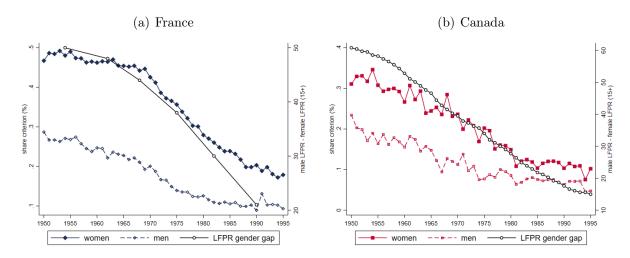
Notes: the data come from the English corpus of the Google N-Grams Viewer. The dictionaries used to compute the prevalence of each criterion are identical to those used to compute the prevalence of each criterion in the matrimonial ads. The y-axis represents the share of words related to a criterion in the entire corpus for a given year.

Figure 10: Mechanism - Evolution of the Supply for Economic Criteria



Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to economic criteria in the supply side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

Figure 11: Mechanism - Evolution of the Share of Economic Criteria and Labour Force Participation Gap



Notes: the data come from matrimonial ads published in Canada and France as well as censuses to compute the Labor Force Participation Gap. The y-axis on the left represents the share of words related to economic criteria in the demand side. The y-axis on the right represents the labor force participation gap for a given year (men - women). Graphs (a) and (b) respectively display graphs for France and Canada.

Post-Materialist Index (1-5)

1.25 1.5 2.25 2.5 2.5 3

Canada

France

India

Figure 12: Mechanism - Post-Materialist Index

Notes: the data come from the World Values Survey in 2006. The y-axis depict the average post-materialist index (scale 1-5) for each country.

Appendix

A Data

A.1 Additional Information on the Time-Series Data

Table A1: List of Newspapers and number of ads from 1950 to 1995

Country	Newspaper	Source	Number of Ads
Canada	Vancouver Sun	newspapers.com	100,462
France	Chasseur Français	digitized by the authors	276,308
India	Times of India	proquest.com	317,913

Notes: List of newspapers used to compute the time-series and number of matrimonial ads per newspapers over the period 1950-1995 (1953-1995 for India).

Table A2: Descriptive Statistics on the Matrimonial Ads

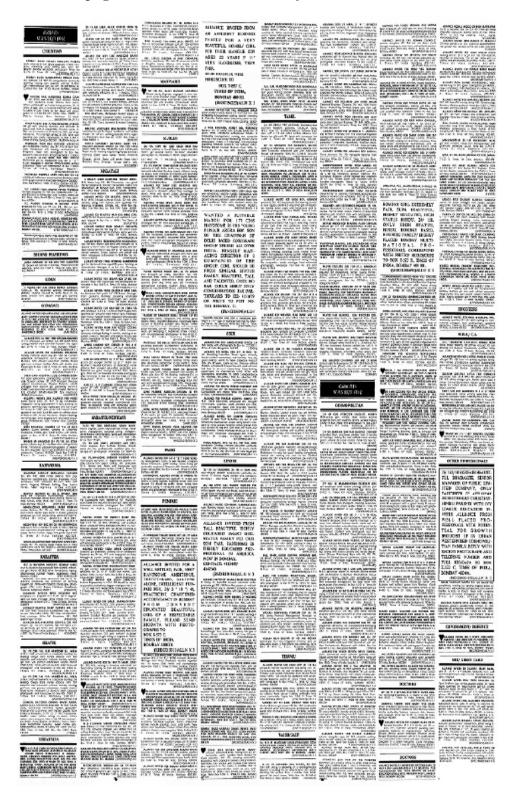
	Can	ada	Fra	nce	Inc	lia
	(1)	(2)	(3)	(4)	(5)	(6)
	Mean	S.D.	Mean	S.D.	Mean	S.D.
Ad Without Demand Side (1=Yes)	0.06	0.25	0.04	0.19	0.07	0.25
N Words Demand	19.58	17.53	9.90	12.52	8.66	7.39
N Words Supply	14.00	11.25	12.08	7.29	15.59	7.81
Observations	100462		276308		317809	

Notes: The data come from matrimonial ads published in Canada, France and India. Standard errors are given in parentheses.

Figure A1: One page of matrimonial ads in May 1995 in the Vancouver Sun - Canada

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Figure A2: One page of matrimonial ads in May 1995 in the Times of India - India



LES PETITES ANNONCES DU CHASSEUR FRANÇAIS

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- CFITS

 Existe-t-il cet homme qui désirerait refaire
 une existence enfin heureuse auprès d'une IF
 divorcée, quarantaine, 1m66, mince, jolie,
 distinguée ? CFIT21
- 49 ans, jeune grand-mère, libre, indé-pendante, active, souhaite homme même situation, bonne moralité, humour, sensibi-lité, culture pour parfaire éducation enfants, voyeger, former un couple uni durable si af-finités. CF1125

•Dames• •de plus de 50 ans•

- PARIS. Jolie femme, joli sourire, 59 ans, paraissant 45/47, 1m70, élégante, allurée, désirable, féminine, chaleureuse, passionnée, fraitheur d'âme, position sociale élevée, aisée, épouserait homme haut niveau de vie.
- BASSE NORMANDIE, Femme 62, 1m70. BASE NOBMADILE. Fermme 62, 1m/0, divarcée, fumeuse, très motivée, pour sie couple, rencontrerait Monsieur, bon niveau socio culturel, gal, sincher et bien dans ses basées. C.1730
 RP. Femme brune, yeux bleux, 50 ara, séparée, souhaite trouver une épaule solide pour y pours a lièn. C.71431
 Dame 51 ans, paraissant moins, B.C.B.G.
- pour y poser sa tête. CF1491

 * Dame 51 ans, paraissant moins, B.C.B.G., recherche Monsieur très aisé, aimant arts, voyages, opéra, mariage blanc accepté. CF1490
- Veuve éducation bourgeoise, catholique, Imf9, mince, sentimentale, douce, émant la vie, le soieil, la jule, souhaite rescettrer Monsieur 70 a 80 ans, bon, cutiblé, même profit pour partager une fin de vie heureux, à paris et au soleil. CF1483
- 11, limitrophes. Dame 55 ans, Im74, mo-nailté humaine, calme, es-commerçante, re-venus modestes, recherche point d'appui chaleureux 53-60 ans, grand, pour partager douce joie de sivee. CF1476
- 55 ans, paraissant moins, brune, caractère jeune, aimant musique sorties, voyages sou-halte rencontrer Mornieur strieux pour sor-ties, amitié ou + si affinités, 60 ans maximum. CF1489
- 1m65, 56 kg, pas moche, pas sotte, souhaite compagnon 50-60 ans, positif, sportif, at-tentionné, pour réussite dernier parcours. CF1468
- Antillaise, 53 ans, divorcée, fonctionnaire villa, sérieuse, rencontrerait homme sérieux, situation, pour bonheur tranquille aux An-tilles. CF1453
- ones. Cr493

 PARIS-TOUTES REGIONS. Jolie femme, 51
 a, 1m72, enrochée, douce, sensuelle, fémi-nine, enjouée, enthusuiste, chaleureus, propriétaire, études supérieures, active, parageast infinie tendreuse, projets, evec compagnon libre, solide, éducation, profil infinitive. CFL discription. similaire, CF1445
- imiliare. CF1445

 03.- Célibetaire la cinquantaine, 1m72, sportive, oiment voyeges, sorties, musique, art, recherche compagnon, goûts en rapport pour union sincère. Tél. souhaité. Régions indifférentes, CF1444
- indifferentes. CF1444

 * Amanores sérieuse : Votre décision est prise, veus ne voulez plus vivre seule, veus étes décidée à construire une l'amille. Des ce ces téléphones vitre : a 44AMMONIE A DEUX» au 36-63-39-45. Veus découvrirez des hommes qui ont le même but que vous. Construire peur durer. Attention ce service contrait de la vivre de la vivre de contrait de la vivre de l est interdit à toute personne n'ayant pas la ferme conviction de se marier, 2,19 F/mn.
- * 31-SUD.- 53 ans, élégante, dynamique, in-dépendante, charme, cher. Mr 62 ans maxi,
- dépendante, charme, cher, Mr 62 am massi, cottrès, humons, gis, chaleureus, selontiante, almant arts, musique, voyages. CF1405 a. \$5. Veuve pré-etraitée Market, 56 ans, 1,66 brune, enfanci indépendants, féminine, traditionnelle, activités manuelles, artist, jamin, voyages, recherche complicité, chaleur, sincérité, pise de viere dans vie couple. Province possible. CF1433 . Yal, fimitrophe. Veuve \$0 ans, féminine, afféctueure, souhaite rencontrer Moreiser, contribut and finement cours les complétations de la complétation d
- artecturuse, souraite rencontrer Moraleur, sérieux, non fumeur, pour vie couple si affi-nité. Ecrire journal. CF1481 LANGUEDOC-ROUSSILLON.- Professeur 60
- Languistico-Poussatuoix Proesinst to ans, sans charge, agréable, élégante, mai-sen vacancias, sports, voyages culturels, ani-maux, southaite rencontrer Monsieur 55 max., Im80 max., bien physiquement, cul-tivé, suelte, sportif , courtois, MARIAGE EX-CLUSIVEMENT, CF1418

- 45. Veuve 70 ans, retr. com. deisre renc. Mr même âge, retr. com. ou fonc, sobre, gai, santi, aim. vie fam, sorties, aimant, pas sêr. rabst. Ecrire journal. CFM69
 PARES-Claquantaine, blende, yeux verts -mince-très férninire-enjouée-profession? cientifique (physicienne, cadre supérieur), aime? hager, courir, sicier, desser (out, très invitéel), respirer la nature en vélo. Egale-ment hamories, caliere, musium dassiaux march hamories, caliere, musium dassiaux ment : harmonie, calme, musique dassique beauté dans environnement (meubles an ciens...)- Valeurs? courage, enthousiasm ciens...) Valeurs? courage, enthousiasme, willité aux autres, auteurs préférés? Annaud Desjardinz, Dale Camegle, ouvrages pensée positires, nouvel âge -souhaite?... Pas rôle alde ménagère, tellement mieux tendresse cœur et corps, échanges profonds, nouvel élan de viel. CF1004
- esan de veti CF1004

 * Veuwe, directrice d'école, retraitée, très blen physiquement, distinguée, aime voyages, attachée valeurs morales, rencon-trerait Monsieur, mêmes aspirations, situa-tion équipalente. (**5100.
- trarait Monsleur, mêmes aspirations, situa-tion equivalente. CF1995

 RP Ouest. Jeune quinqua. autonome, rousse yeux dorês, pouriante tailituime désire partager autome dynamique autonome. Certification bien construite et cosur intelligent. CF1931 Correspondants première semains feverier sais amonne 11-370 (Blonde, Saint-Equi-
- péry....) recontactez-moi, très navrée, sa-coche courriers volée dans métro! Desprez, 32 rue du Mont Thabor, 75001 Paris. 30 34, Veuve, sans enfant, 63 ans 1m68,
- cadre retraitée, physique caractère jeunes agréables, recherche compagnon 65 ans maxi, buveur fumeur exclus. Résidences ales possible. CF1375
- ternes possible. CF1375

 * 58 SOS Perdue, seule, ai lançé message que celui à qui il est destiné ne lira peut-être pas ou trop tand ! Divorcée 65 désire mariage célibataire seul, sensible, doux, 61-68 ans. Locataire ville, jamais chassé. «Suis
- abandonnée du genre humain». CF1373 PARIS.- Ferrme S4 ans d'origine Malgache, courageux, sincère, fidèle, cherche homme
- 50 à 65 ans, pour rompre solitude. CF1374

 Paris Darne 68 ans, physique et caractère jeunes, agréable, souhaiterait rencontrer Montieur 61 / 75 ans affectueux, sincère, bonne procalibé. CF1373 ne moralité. CF1372
- Vve physique allure jeunes, belle femme, moderne, 1,64m 67 kg, aisée, sportive, moderne, 1,04th of Y.g., asset, sportion, pro-prieté Touraine. Rencontrerait Moraieur 69 - 75 mais grand, soigné, santé, tendre, cou-tois, optimiste, aité. Partager enemble loi-sis, tendresse, complicité. Alternance demi-cile envisageable. CP1371
- Française, cinquantaine, classe, paraissant très jeune, blonde, yeux bleus, mince, en ac-tivité, artiste, désire vie couple harmonieuse
- tritte, artiste, desere vie coupre harmonieuse avec homme asistique, libre, très motivé, mé-decin ou cadre supérieur, parlant français. Annonce très sérieuse. CF1369 * 38. Dame sérieuse, gentille, femme d'in-térieur, 70 ans, 1,65m, 65 kg, désire rencon-
- ter Mr 70 et +, sobre, sécus, actual tre Mr 70 et +, sobre, sécus, actual tre Mr 70 et +, sobre, sécus, actual tre Mr 70 et +, sobre, sécus, gale, santé, aime voyages, nature, promenades, rencontrerait Mr 72-75, non fumeur, mêmes goûts. CF1367 69. Limitrophes. Veuve 57 ans 1m56, 55 kg, employée, goûts simples, physique agréable, rencontrerait Monsieur sobre, séız, pour rompre solitude, goûts simila
- rieus, pour rompre sostude, gouts similaires. CF1356 SE-autres.- Cinquantaine, divorcée, fémi-nine, blonde, 1m60, bon niveau, revenus confortables, aimant sorties, voyage, mucontortables, amant sorbes, voyago, mu-sique, peinture, animaus, rencontrerait Monsieur 50/56, même profil, bien physi-quement, min. 1m/3, übre, sobre, sincire, va-leurs morales pour relation de qualité. CF1349
- 37 et limitrophes.- 54 ars, veuve, blonde, yeux bleus, corpulente, ressources modestes, qualités et défauts, donnerait affection, sin-cérité, compréhension contre amitté, sécu-rité, pour mariage si affinités. CF1348

- Région Parisienne. Dame la cinquantain loyale, authentique, sensible, souhait construire relation solide, non fumeur, pr
- construire relation sense, non numeur, pro-fil identique, 60 ans mexi. CF1345

 * Toutes régions. Veuve, jeune septuagé naire, châtain, yeux verts, 1m52 / 53kg, re-traitée, excellent milieu, rencontrerait Mon-
- traines, excesses masou, rescontineant inter-sieur sérieux 70°00, vie commune. CF1339 * 69, foutes régions. Dame divorcée, 53 ans, libre, sans charge, santé, sérieuse, édu-cation, aimant nature, voyages, vie saine, souhaite compagnon profil identique. CF1331
- 71, 69, 01.- Jolie, cinquantaine, seule, san enfant, rieuse, naturelle, sensible, sociable, godts simples, aimant peinture, voyèges, lectures, sports, cherche homme libre (sotxantaine), pour partager les plaisirs de la vie. CF1329
- PARIS.- Petite femme 60 ans, fine corps esprit, moderne, épanoule, passion vie erts, souhaite homme tendre, gai, niveau intel-lectuel, sensualité, sensibilité, pour relation lectuel, sensualité, s de qualité. CF1328
- 29. Veure fin soizantaine, retraite, escel-lent milleu, éducation, simplicité, allure, mince, santé, maison près mer, aimant na-ture, painture, rencontrerait Monsieur 70 ans, sérieux, affectueux, valeurs morales, pour rompre solitude. CF1320
- TOULOUSE.- Suis de celle pour qui «quand * TOULOUSE.- Just de cete pour qui equaren on aime, il fait toujours beaux sagittaire, fin quarrataine, ImiSe, mince, yeux verts, jo-lie, élégante, très férmine, situation, re-centrerait Monisur 50-EO, récliment hors du commun, moralité, raffiné, nireau et milieu social élevés, pour partager dura-blement amour-humour, fameurs, caracti-faite s'abstrait, CF1311 riels s'abstenir. CF1311
- PAYS-DE-LOIRE.- Retraitée partagerait avec Monsieur courtois 60-70 ans, vie saine avex Monseur courtios 69-70 am, vie saine, sereine, dialogue, valeurs morales. CF1303 • Veuve, 58 ams, 1m78, élégance, charme, féminine, sereible, qualités ceeurimorales, maison, rencontrerait Monsieur, beauté in-térieure, souhaite mariage - 85-58-73-31.
- Message PERSONNEL à Jean-Pierre Por es, de «DOULOUREUSEMENT SEULE» Lorsque reçu second courrier, suite accident ne marchais plus. Pas osé le lui dire. Suis que re merchas pus. Pas obe re un que-rie, remarche normalement, ai gardé poèmes, fleur de fuschia. Si Jean-Pierre n'a pas trouvé âme-toeur, suis toujours «TELLE-MENT ABANDONNÉES»! CF1302 • TOUTES REGIONS.— Dame 57 ans., très value chaestre companyon 58.55. Pas grand
- seule, cherche compagnon 58-65 ans, grand, sérieux, pour rompre solitude. CF1294
- 45 et autres.- Veuve, 55 ans, grande, mince et dynamique, sincère; désire rencontrer Monsieur 55-60 ans, bon niveau socio-cultu-
- mothers 3390 am, don mees sold-one; et, courtois et tendre pour partager un grand bonheur. CF1285 Soiszantaine, gales, sentimentale, pro-priètaire Var, rencontrerait Mordieur sé-rieux, aimant voyages, danse, non fumeur, grand, 1m7b, pour liaison durable, accepte résidences alternées. CF1281 66.83.64. Duras seteible amérable, ca
- 06-83-04.- Dame retraîtée agréable, caractire jeune, 1m56, 53 kg, recherche com-pagnon physique agréable, bon milieu, bonne retraite. CF1286
- borne retraite. CF1286

 * R.F. Bells femme, S2 are, cadre, gale, dynamique, renconterait Monsieur grand, distingué, prévenant, HUMOUR, almant voyages, nature, BON NIVEAU SOCIAL, ANNONCE SEREUSE. CF1277
- 91-77. F. 53 ans, brune, 52 kg, physique, allure agréables, sérieuse, affectueuse, in-dép, financ, désire continuer sa vie avec amour, confiance, sévérible et sécurible avec M. 50-58 ans, min. 1m70, même profil, mêmes désirs. CF1274
- 66 ans, veuve, cadre fonction publique, retraitée, dynamique, aimerait rencontrer homme âge correspondant, sérieux, libre, Nord Picardie, Ile-de-France. CF1263

A.2 Additional Information on the Cross-Sectional Data

Table A3: List of Canadian Provinces and US States and Newspapers in 1995

Panel A: Canadian Provinces	Region	Newspaper	Number of Ads
British Columbia Vancouver Sun 6,127 Ontario The Ottawa Citizen 4,810 Total 16,392 Panel B: US States Alabama The Anniston Star 2,058 Arizona Arizona Daily Star 10,087 California Los Angeles Times 45,260 Colorado Fort Collins 6,045 Columbia Washington Post 7,944 Delaware The News Journal 12,017 Florida Orlando Sentinel 32,313 Georgia The News Journal 12,017 Florida Orlando Sentinel 32,313 Georgia The Atlanta Constitution 18,852 Idaho Times News 3,270 Illinois Chicago Tribune 19,556 Indiana The Desmoines Register 1,214 Kentucky The Courier Journal 16,653 Louisiana The Courier Journal 16,653 Louisiana The Times 9,954 Massachusetts Boston Globe 27,672 <td>Panel A: Canadian Pr</td> <td>rovinces</td> <td></td>	Panel A: Canadian Pr	rovinces	
British Columbia Vancouver Sun 6,127 Ontario The Ottawa Citizen 4,810 Total 16,392 Panel B: US States Alabama The Anniston Star 2,058 Arizona Arizona Daily Star 10,087 California Los Angeles Times 45,260 Colorado Fort Collins 6,045 Columbia Washington Post 7,944 Delaware The News Journal 12,017 Florida Orlando Sentinel 32,313 Georgia The News Journal 12,017 Florida Orlando Sentinel 32,313 Georgia The Atlanta Constitution 18,852 Idaho Times News 3,270 Illinois Chicago Tribune 19,556 Indiana The Desmoines Register 1,214 Kentucky The Courier Journal 16,653 Louisiana The Courier Journal 16,653 Louisiana The Times 9,954 Massachusetts Boston Globe 27,672 <td>Alberta</td> <td>Calgary Herald</td> <td>5.455</td>	Alberta	Calgary Herald	5.455
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	Total		438,780

Notes: list of Canadian and American newspapers used in the cross-sectional analysis in 1995. All the data come from the website newspapers.com.

Figure A4: Geographical Location US Newspapers



Notes: the figure depicts the geographical location of newspapers from which we collected data on matrimonial ads in the US. Dark Blue (White) corresponds to States with (without) data.

B Method

B.1 Disentangling Demand and Supply

To identify the demand side in each matrimonial ad, we use a list of delimiters for each newspapers. The list is described in Table B1. Additionally, Table A2 shows the share of ads that were unsuccessfully split for each country. Over the entire period, these shares are roughly in between 2 and 12% for the three countries.

Table B1: List of Delimiters Used to Disentangle Demand and Supply

Country	Delimiter	Delimiter (French)
Canada	wish, seek, iso (in search of), would like, meet, desir, share, correspond, look for, want, need, hope to find, you, is there a	
India	matrimonial correspondence, matrimonial proposal, matrimonial offer, match, alliance, desire, seek, wish, request, need, invite, look for, for, from, want, require, correspond, intend matrimony, solicit, to marry, expect, may contact	
France	marry, meet, desire, wish, correspond (x2), looks for (x2), assist, share, found, wants, asks, know, offer, enter, hope, wed, accept, answer, like, wait	epous, rencontr, desir, souhait, correspond, correspondr, recherch, cherch, second, partag, fond, voudr, demand, connaitr, offre, entre, esper, mari, accept, repond, aime, attend (22)

Notes: List of delimiters

B.2 Dictionaries

Table B2: Previous Literature on Criteria Studied in the Literature

Paper	Method	Criteria
Egebark et al. (2021) Almas et al. (2020)	online dating survey data and vi- gnette experiment	Education and attractiveness Income
Chiappori et al. (2017)	census data	Education and demographics
Ong and Wang (2015)	online dating	income
Dupuy and Galichon (2014)	survey data	Socio-economic variables (education, age), anthropometric measures (height and body mass index, self-assessed health) and psychometric attributes (Big Five personality traits and risk aversion)
Belot and Francesconi (2013)	speed-dating	Age, education, profession, height, body mass index and smoking
Banerjee et al. (2013)	matrimonial ads	Caste, education
Hitsch et al. (2010)	online dating	Age, height, body mass index, income, education, and looks rating
Fisman et al. (2006)	speed-dating	Ambition, attractiveness, intelligence, fun, sincere and shared interests
Buss et al. (2001)	survey data	18 characteristics including personality traits, health, income/status/ambition, family commitment, religion and physical attractiveness
Kalmijn (1998)	literature review	Socio-economic resources (income, status or education) and cultural resources (values, opinions, tastes)
Waynforth and Dunbar	matrimonial ads	Physical attractiveness, wealth/status, family commitment, sexual fidelity, age, personality traits
Buss (1989)	survey data	Earning capacity, ambition-industriousness, youth, physical attractiveness and chastity
De Singly (1984)	matrimonial ads	Economic (profession, wealth, education and general), psychological and physical criteria

Notes: List of papers studying partner preferences.

Table B3: Details on Topic Classification - France

Topic	Keywords (Translated)	Original Keywords (Stemmed French)			
Panel A: Econom	Panel A: Economic Criteria				
General	situation, franc, distinguished, refined, better-off, income, money $$	situat, franc, distingu, raffin, aisé, revenu, argent (7)			
Labor	civil servant, executiv, retired, merchant, job, engineer, teacher, secretary, industrialist, physician, schoolmaster, farmer, worker, seller, musician, pharmacist, technician, employee, accountant, non-commissioned officer, craftsman, dentist, veterinary, notary	fonctionnair, cadre, retrait, commerc, profess, ingénieur, enseign, secretair, industriel, médecin, institutric, agriculteur, ouvri, commercial, musicien, pharmacien, technicien, employe, comptable, sous-officier, artisan, dentiste, veterinair, notair (24)			
Education Wealth	education, study, educated, bachelor, academic asset, owner, car, house, expected inheritance, dowry, property, wealth, savings, bourgeois, pension, annuity, annuitant, immovable, nobility, capital	educ, etud, instruit, bachelier, universitair (5) avoir, propriétair, voitur, maison, espérance, dot, propriét, fortun, économ, bourgeois, pension, rente, rentier, immeubl, nobless, capital (16)			
Panel B: Persona	ality Criteria				
General Agreeableness	likes, affinity, personality, character, taste affectu, agreabl, simpl, sweet, cheerful, happy, tender, kind, comprehens, courteous, romant, cuddly, tactful	aim, affinit, personnalit, caracter, gout (5) affectueux, agreabl, simpl, dou, gai, heureu, tendr, gentil, comprehens, courtois, romant, calin, delicat (13)			
Extraversion	serious, sober, dynamiqu, energ, charm, humour, calm, enthusiast, reserve, shy, spontaneous	serieu, sobr, dynamiqu, energ, charm, humour, calm, enthousiast, reserve, timid, spontané (11)			
Emotional Sta- bility	sentimental, feminin, sensitiv, natural, secur, adventur, courag	sentimental, feminin, sensibl, natural, securis, aventuri, courag (8)			
Conscientiousness Intellect	s hardworking, neat cultivated, intelligent, spirit, spiritu, passion	travailleur, soigné (2) cultiv, intelligent, esprit, intellect, spirituel, passionne, in- tellectu (7)			
Honesty Panel C: Physica	moralit, sincer, loyal, honest, frank, honorabil d $Criteria$	moralit, sincer, loyal, honnet, franch, honorabilit (6)			
General	physical thin, athletic, slim, kilo, health, handicap, blond, brown, dark blond, hair, eyes	physiqu, taille, metre, minc, sportif, svelt, sant, handicap, blond, brun, chatain, cheveux, yeux (13)			
Age	year, young, age, sixty, fifty, fourty, thirty	an, jeun, age, soixantain, cinquantain, quarantain, trentain (7)			
Size	size, metre	taille, metr (2)			
Attractiveness	pretty, sensual, beautiful, manly, cute, attractive, beautiful	jol, sensuel, beau, viril, mignon, seduis (6)			
Panel D: Taste-E	Based Criteria				
Habit	smoke, smoking, taste	fumeur, fumant, gout (2)			
Hobbies	travel, natur, hunter, art, music, sport, animal, cultur, artist, garden, reading, book, hunt, mountain, leisure, ski, cinema, handyman, fish, dog, paint, cook, drawing, theater, holiday, cultural, show	voyag, natur, chaseur, art, musiqu, sport, animal, cultur, artist, jardin, lectur, livre, chass, montagn, loisir, ski, cinema, bricoleur, pech, chien, peintur, cuisin, dessin, theatr, vacanc, culturel, spectacl (29)			
Religion	cathol, christian, protestant, religi	cathol, chretien, protestant, religi (4)			

Notes: these words are used to classify ads published in the Chasseur Francais in France.

Figure B1: Word Clouds of Unclassified Words - France



Notes: the data come from the $Chasseur\ Francais$ in France. It represents unclassified words.

Figure B2: Word Clouds of Unclassified Words - India



Notes: the data come from the Times of India in India. It represents unclassified words.

Table B4: Details on Topic Classification - India

Topic	Keywords
Panel A: Economic Cr	riteria
Education	academic, BCom, BEd, BE MBA, BSc, BTech, college, degree, diploma, educated, graduate, IIM, IIT, LLB, matric, matric, MBA, MBBS, MCom, MPhil, MSc, MTech, PhD, postgraduate, scholar, school, student, study, undergraduate, university (29)
General	accomplished, affluent, background, class, dollar, finance, financial, income, means, rich, rupees, salary, settled (13)
Labor	accountant, advocate, architect, banker, business, career, clerk, consultant, designer, director, doctor, earning, employed, employee, engineer, executive, industrialist, job, lawyer, lecturer, manager, merchant, musician, nurse, officer, official, pensioner, position, practice, profession, professional, professor, retired, scientist, secretary, servant, service, sportsman, ssc, surgeon, teaching, teacher, technician, technologist, work (45)
Wealth	accommodation, aristocrat, asset, bungalow, car, dowry, estate, flat, home, house, landlord, millionaire, multimillionaire, owner, ownership, property, residence, wealth, wealthy (19)
Panel B: Personality (Criteria
Agreeableness	affectionate, caring, charming, considerate, demanding, helpful, kind, modest, natural, nice, pleasant, reasonable, respectful, simple, sincere, sober, sweet (17)
Conscientiousness	efficient, industrious, responsible, strictest (4)
Emotional Stability	independent, secure, stable (3)
Extraversion	active, ambitious, assured, cheerful, communicative, confident, direct, dynamic, enterprising, forceful, happy, influential, loving, quiet, sociable, social, spirited (17)
General	character, outlook, personality, temper, temperament (5)
Intellect	bright, brilliant, broadminded, complex, cosmopolitan, cultured, graceful, ignorant, intellectual, intelligent, knowledge, liberal, progressive, refined, smart, sophisticated, versatile, worldly (18)
Panel C: Physical Crit	
Age	age, old, young, younger, youth (5)
Attractiveness	attractive, beautiful, handsome, pretty, stylish (5)
General	athletic, colour, complexion, deaf, fair, features, health, healthy, kilogram, look, physique, shaven, slim, weight, wellbuilt, wheat, wheatish, white (18)
Height	centimeter, feet, height, tall (4)
Panel D: Taste-Based	
Demographics	agarwal, amil, arora, athreya, bania, bansal, bengali, bharadwaja, bhatia, bisa, brahmin, caste, chitpavan, community, deshastha, ezhava, garg, gaur, goan, goel, gotra, gowd, goyal, gsb, gujrati, gupta, intercaste, iyengar, iyer, jat, kannada, kannadiga, kanyakubj, kapoor, kashyapa, kaundinya, kaushika, kayastha, keralaite, khatri, konkani, kshatriya, lohana, madhwa, maharashtrian, maheshwari, malayalee, mangalorean, maratha, marwari, mathur, menon, mittal, mysorean, naidu, nair, oswal, palghat, patel, patidar, porwal, punjabi, race, rajput, rehman, sahiti, saraswat, saxena, sindhi, smartha, srivatsa, subcaste, tamil, tamilian, telgu, thiyya, vadama, vaish, vaishnav, vaishya, vanik (81)
Habit	habit, nonsmoker, teetotaller, vegetarian (4)
Hobbies	art, artistic, book, cook, dance, draw, embroidery, hobby, music, reading, show, sport, tailoring, travel (14)
Religion	bohra, catholic, christian, creed, dawoodi, gurusikh, hindu, hindus, ismaili, jain, khoja, marthomite, murtipujak, muslim, parsi, protestant, religious, religion, roman, shia, sikh, sunni, swetamber, syrian (24)

Notes: these words are used to classify ads published in the $Times\ of\ India$ in India. Out of the 1373 most recurrent unique words, the numbers of words classified is 349 (25.42%).

Table B5: Details on Topic Classification - US

Topic	Keywords	
Panel A: Economic C	riteria	
Education	college, degree, educ, student (4)	
General	financially (1)	
Labor	business, employment, position, prof, professional, retired, work (7)	
Wealth	car, home (2)	
Panel B: Personality	Criteria	
Agreeableness	affectionate, charming, easygoing, friendly, gentle, honest, honesty, humor, kind, laugh, laughter, moral, natural, nice, respectful, sensitive, simple, sincere, smiling, sweet, understanding, warm (22)	
Conscientiousness	careful, dependable, responsible (3)	
Emotional Stability	emotional, independent, secure, stable (4)	
Extraversion	active, adventurous, communicative, confident, energetic, fun, funny, happy, loving, outgoing, playful, quiet, romance, romantic, shy, social, spirited, spiritual, spontaneous, witty (20)	
General	personality (1)	
Intellect	artistic, bright, creative, cultured, intelligent, smart (6)	
Panel C: Physical Cris	teria	
Age	30s, 40s, 50s, age, old, young (6)	
Attractiveness	attr, attractive, beauty, cute, handsome, pretty, sexy (7)	
General	athletic, blond, body, brunette, eyes, fit, hair, health, healthy, lbs, look, muscular, physical, size, slender, slim, weight (16)	
Height	height, petite, tall (3)	
Panel D: Taste-Based	Criteria	
Demographics	black, italian, orient, race, white (5)	
Habit	drinker, drug, nondrinker, nonsmoker, smoke, smoker (7)	
Hobbies	animal, art, bike, boat, book, camp, concert, cook, dance, fish, garden, golf, hike, horse, jazz, movie, music, read, ski, sport, swim, tennis, theater, theatre, travel (24)	
Religion	christian, church, jew (3)	

Notes: these words are used to classify ads published in the regional newspapers in the US and Canada. Out of the 500 most recurrent unique words, the numbers of words classified is 186 (37.20%). In many American newspapers, it is common for individuals to use abbreviations to indicate their situation. We include abbreviations in all the categories it indicate. For example, the abbreviation wpm, which stands for white professional male, is included in both demographics and labor.

Figure B3: Word Clouds of Unclassified Words - US



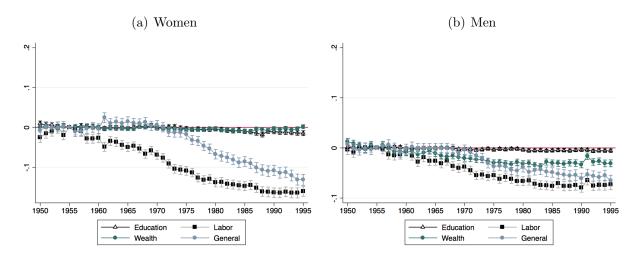
Notes: the data come from the regional newspapers in the US and Canada in 1995. It represents unclassified words.

C Additional Results

C.1 The Evolution of Partner Preferences

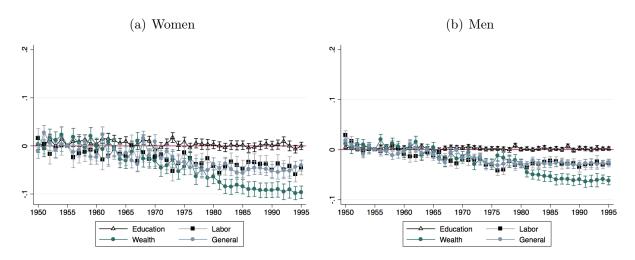
C.1.1 Decomposing the Evolution of the Demand for Economic Criteria

Figure C1: Decomposing the Evolution of Economic Criteria - France



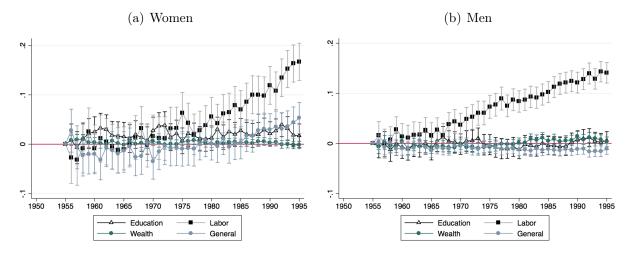
Notes: the data come from matrimonial ads published in France. The outcome is the share of words related to a sub-criterion in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

Figure C2: Decomposing the Evolution of Economic Criteria - Canada



Notes: the data come from matrimonial ads published in Canada. The outcome is the share of words related to a sub-criterion in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

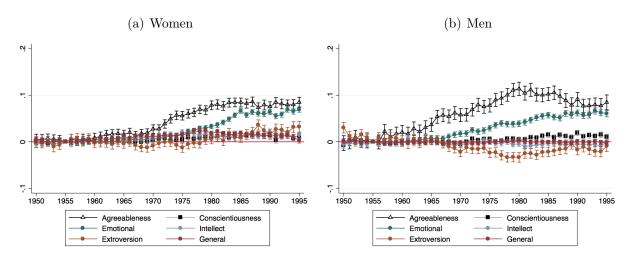
Figure C3: Decomposing the Evolution of Economic Criteria - India



Notes: the data come from matrimonial ads published in India. The outcome is the share of words related to a sub-criterion in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

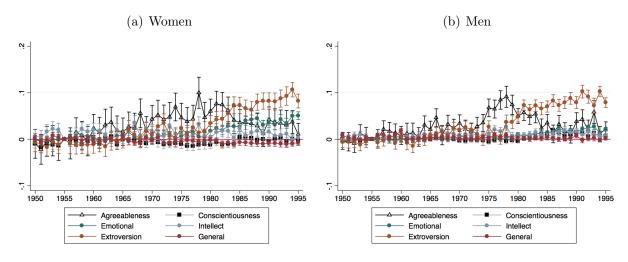
C.1.2 Decomposing the Evolution of the Demand for Personality Criteria

Figure C4: Decomposing the Evolution of Personality Criteria - France



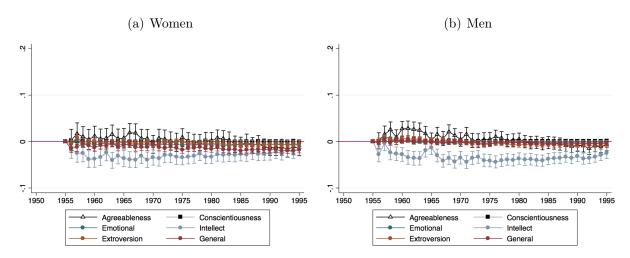
Notes: the data come from matrimonial ads published in France. The outcome is the share of words related to a sub-criterion in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

Figure C5: Decomposing the Evolution of Personality Criteria - Canada



Notes: the data come from matrimonial ads published in Canada. The outcome is the share of words in the demand side related to a sub-criterion. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

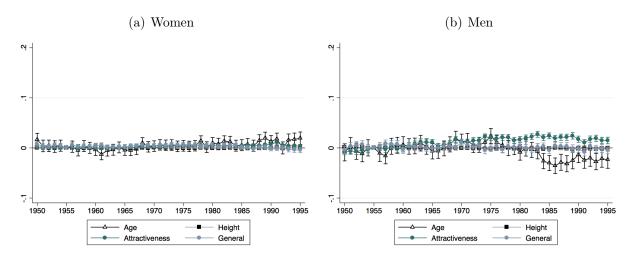
Figure C6: Decomposing the Evolution of Personality Criteria - India



Notes: the data come from matrimonial ads published in India. The outcome is the share of words related to a sub-criterion in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

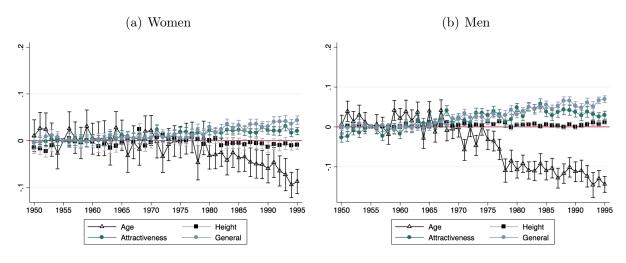
C.1.3 Decomposing the Evolution of the Demand for Physical Criteria

Figure C7: Decomposing the Evolution of Physical Criteria - France



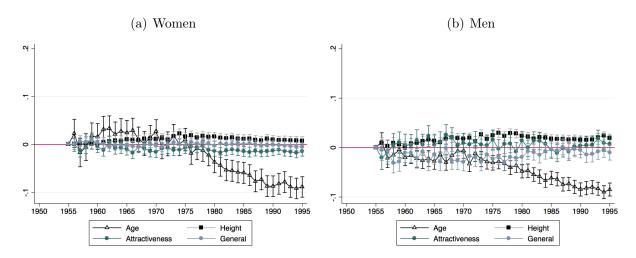
Notes: the data come from matrimonial ads published in France. The outcome is the share of words related to a sub-criterion in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

Figure C8: Decomposing the Evolution of Physical Criteria - Canada



Notes: the data come from matrimonial ads published in Canada. The outcome is the share of words related to a sub-criterion in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

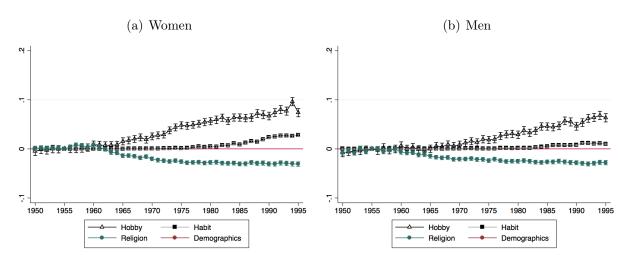
Figure C9: Decomposing the Evolution of Physical Criteria - India



Notes: the data come from matrimonial ads published in India. The outcome is the share of words related to a sub-criterion in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

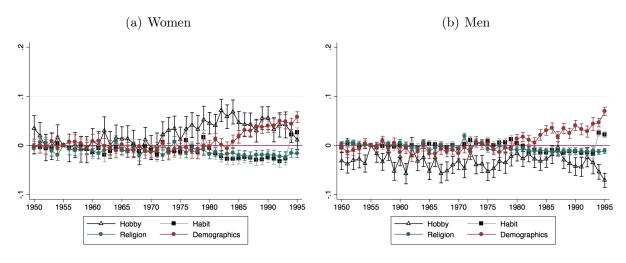
C.1.4 Decomposing the Evolution of the Demand for Taste Criteria

Figure C10: Decomposing the Evolution of Taste Criteria - France



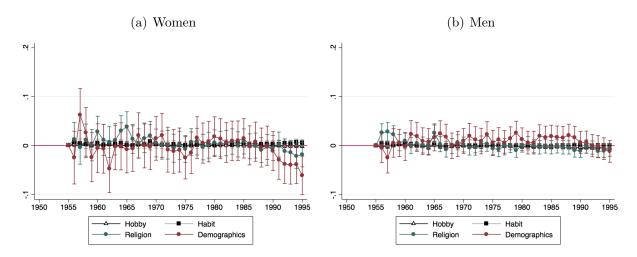
Notes: the data come from matrimonial ads published in France. The outcome is the share of words related to a sub-criterion in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

Figure C11: Decomposing the Evolution of Taste Criteria - Canada



Notes: the data come from matrimonial ads published in Canada. The outcome is the share of words related to a sub-criterion in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

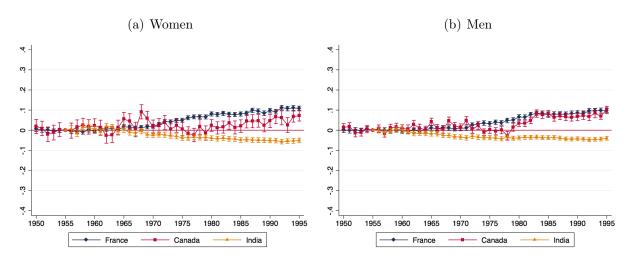
Figure C12: Decomposing the Evolution of Taste Criteria - India



Notes: the data come from matrimonial ads published in India. The outcome is the share of words related to a sub-criterion in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

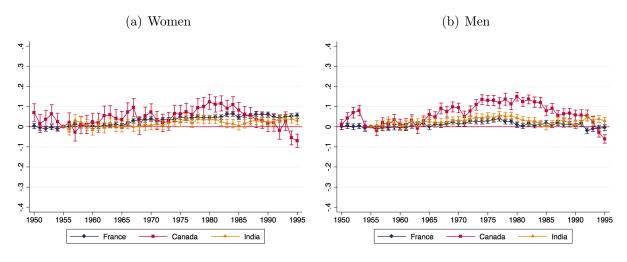
C.2 Evolution of the Supply Side

Figure C13: Evolution of the Supply for Personality Criteria



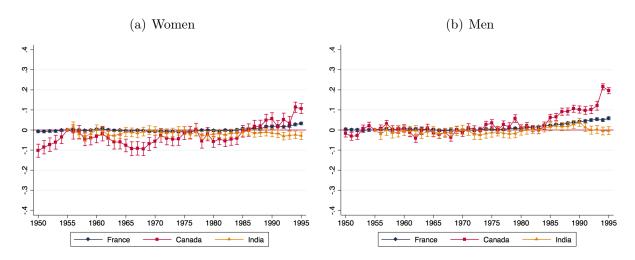
Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to personality criteria in the supply side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

Figure C14: Evolution of the Supply for Physical Criteria



Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to personality criteria in the supply side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

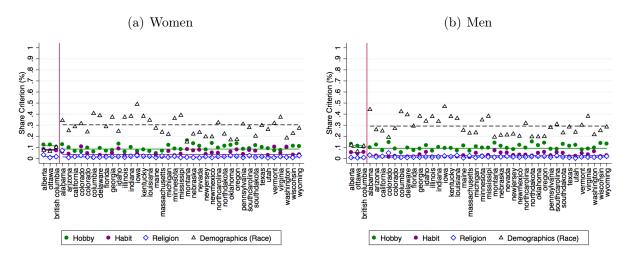
Figure C15: Evolution of the Supply for Taste Criteria



Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to personality criteria in the supply side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

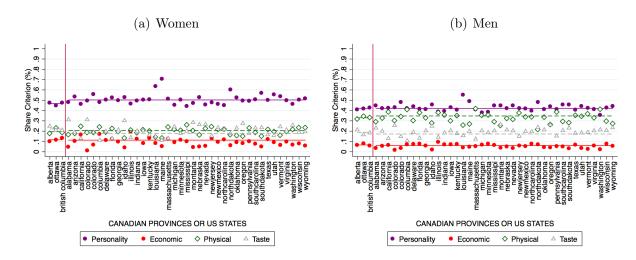
C.3 Regional Variations

Figure C16: Decomposing Taste Criteria



Notes: the data come from American and Canadian Newspapers in 1995. The y-axis depicts the average share of words related to each sub-criterion in the matrimonial ads published in a given newspaper. The sum of these criteria give the average share of words related to taste criteria in the demand side of matrimonial ads. The x-axis represents the regional area covered by the newspapers (Canadian Province or US State). Graphs (a) and (b) respectively include ads written by women and men.

Figure C17: Demand Without Race - Prevalence of Each Criterion in 1995 in the American and Canadian Newspapers Ads



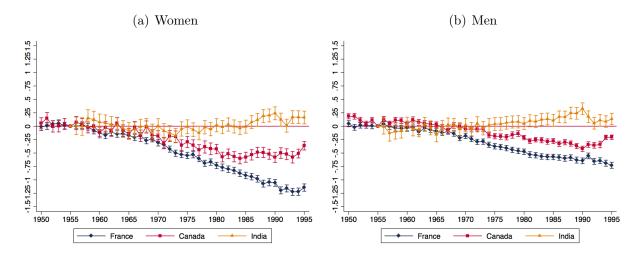
Notes: the data come from American and Canadian Newspapers in 1995. The y-axis depicts the average share of words related to each criterion in the matrimonial ads published in a given newspaper. The x-axis represents the regional area covered by the newspapers (Canadian Province or US State). Graphs (a) and (b) respectively include ads written by women and men. The taste criteria are computed without taking into account race.

C.4 Robustness Checks

C.4.1 Methodological Choices - Share/Count/Dummy

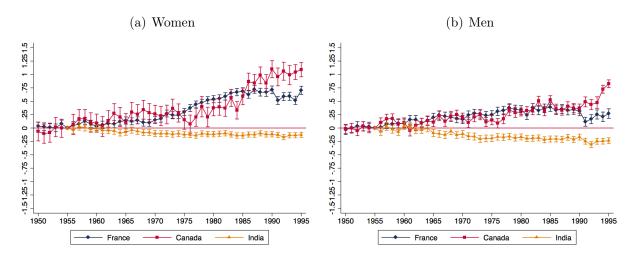
In the body of the article, the main outcome is the share of words related to a criterion. In this section, we present the results using two alternative outcomes: (i) the raw count of words related to a criterion and (ii) a dummy that equals one if a criterion is present inside the demand side of a matrimonial ad.

Figure C18: Evolution of the Demand for Economic Criteria - Count



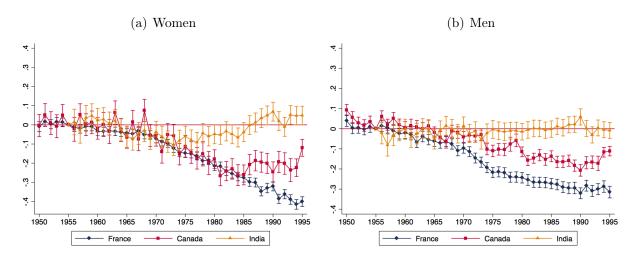
Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the number of words related to economic criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

Figure C19: Evolution of the Demand for Personality Criteria - Count



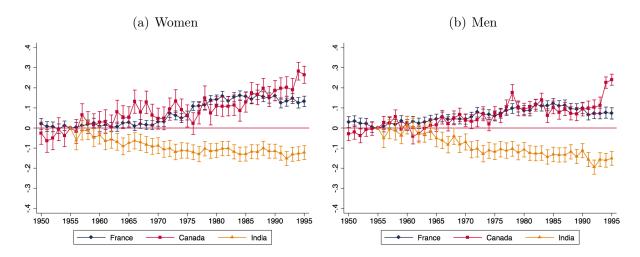
Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the number of words related to personality criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

Figure C20: Evolution of the Demand for Economic Criteria - Dummy



Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is a dummy that equals 1 if the demand side contains at least one word related to economic criteria. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

Figure C21: Evolution of the Demand for Personality Criteria - Dummy



Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is a dummy that equals 1 if the demand side contains at least one word related to economic criteria. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

C.4.2 Methodological Choices - Groups of Words

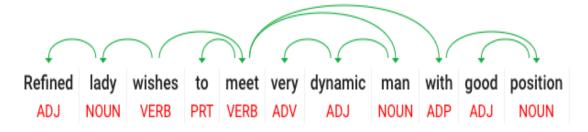
In the main text, we classified the information on the basis of individual words. For instance, we considered that a sentence such as "very dynamic man with good position" counted one word related to personality traits (dynamic) and one word related to economic criteria (position). However, in this sentence, two additional words are associated to these criteria. The word "very" and "good" respectively amplify dynamic and position.

To account for these dependencies, we used a syntactic tree dependency parser.²⁴ Figure C22 illustrates how this method works. The green arrows indicate the dependencies between the words.

We used this information to reweigh the criteria taking into account potential dependencies across words. Based on Figure C22, we consider that two words ("very", "dynamic") are associated to personality traits and two other words ("good", "position") refer to economic criteria.

Figure C23 displays the evolution of the demand for economic criteria using the main and the reweighed method. With the reweighed method, the importance of economic criteria increases but the trends remain essentially similar.

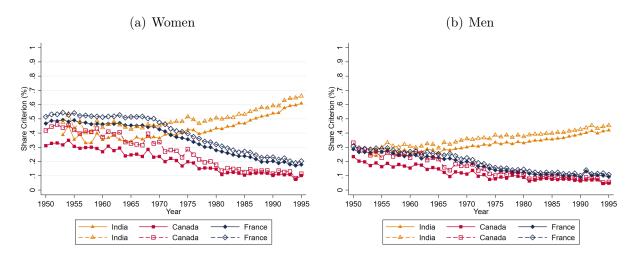
Figure C22: Illustration of the Syntactic Tree Dependency Parser from the Google NLP API



Notes: the Figure comes from the Google NLP API demo at https://cloud.google.com/natural-language?hl=eng using the sentence " $Refined\ lady\ wishes\ to\ meet\ a\ very\ dynamic\ man\ with\ good\ position$ ". Green arrows display the dependencies between the words.

 $^{^{24}}$ Package spacy on Python.

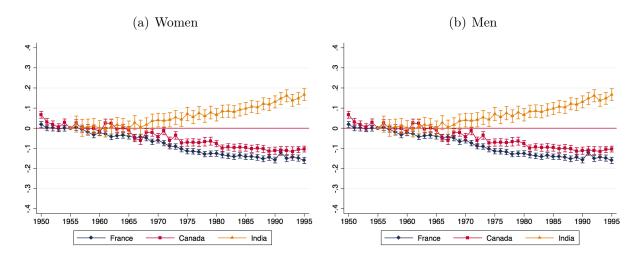
Figure C23: Evolution of the Demand for Economic Criteria - Single vs Reweighed



Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to economic criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men. White filled markers correspond to reweighted criteria using the Part-of-Speech tagger.

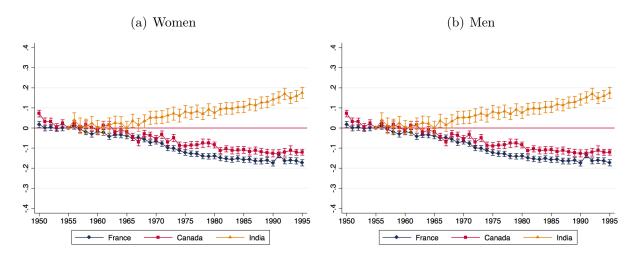
C.4.3 Methodological Choices - Cutoff for Dictionaries

Figure C24: Evolution of the Demand for Economic Criteria - Using top 100 words



Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to economic criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men. Dictionaries are computed using the top 100 words (instead of top 500 in the main results).

Figure C25: Evolution of the Demand for Economic Criteria - Using top 250 words



Notes: the data come from matrimonial ads published in Canada, France and India. Graphs (a) and (b) respectively include ads written by women and men. The outcome is the share of words related to economic criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men. Dictionaries are computed using the top 250 words (instead of top 500 in the main results)

D Mechanisms

D.1 Composition Effects: Oaxaca-Blinder Decomposition

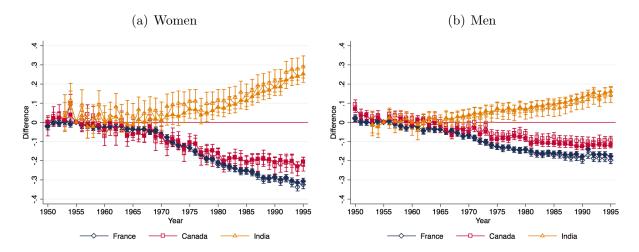
Table D1: Construction of variables used in the decomposition

Variable	Nature	Construction
Age	Continuous	We retrieved expressions containing both a number and indicating the presence of age such as "30 years old". If these two conditions were met, we created an age variable that equals to the number. As some individuals may not use these expressions to save money and only indicate a number for their age, we considered that a two-digit number designates an age only if the expressions indicating age were not present and one two-digit number was.
Matrimonial Status	Discrete	Categorical variable that equals 1 if the supply side contains the word "single", 2 if it contains "divorc" and 3 if it contains "widow"
Mention of Children	Discrete	Dummy that equals 1 if the word "child" or "kid" appears in the supply side
Mention of Education	Discrete	Dummy that equals 1 if the supply side contains at least one word in the sub-criterion Education of the economic criteria
Job	Discrete	Categorical variable taking different values corresponding to the words used in the sub-criterion Labour of the economic criteria
Ethnicity	Discrete	Categorical variable taking different values corresponding to the words used in the sub-criterion Labour of the economic criteria
Religion	Discrete	Categorical variable taking different values corresponding to the words used in the sub-criterion Religion of the taste-based criteria
Caste	Discrete	Categorical variable taking different values corresponding to the words used in the sub-criterion Demographics of the taste-based criteria in India

Notes: these variables are used in the Oaxaca-Blinder decomposition. They are computed based on the supply side of matrimonial ads. The dictionaries to which the Construction column refers to can be found respectively in Tables 1, B4 and B3 for Canada, India and France.

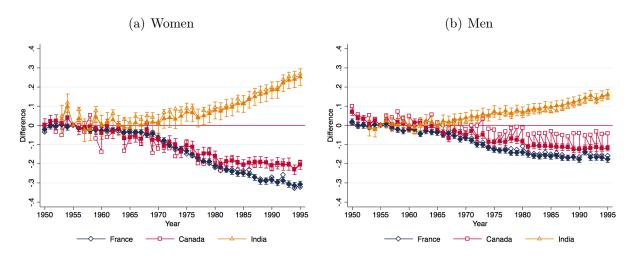
D.2 Composition Effects: Sub-Sample Analysis

Figure D1: Evolution of the Demand for Economic Criteria - Controlling for Age



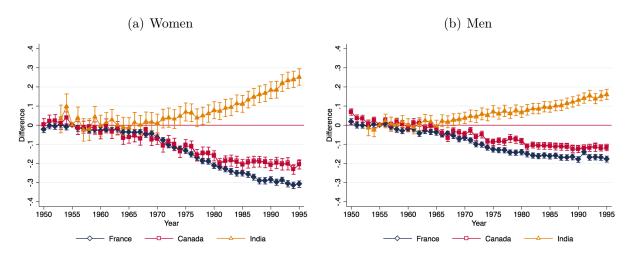
Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to economic criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad, the month of publication and the age indicated in the supply side. Graphs (a) and (b) respectively include ads written by women and men. White filled markers correspond to the specifications controlling for age and age squared Confidence intervals are obtained on this sub-sample. Filled markers correspond to the main specification without controlling for age.

Figure D2: Evolution of the Demand for Economic Criteria - By Age Group (Less than 40 vs Full sample)



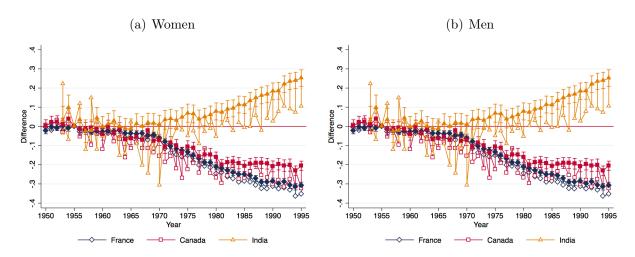
Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to economic criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men. White filled markers correspond to individuals who indicate being less than 40 years old. Confidence intervals are obtained on this sub-sample. Filled markers correspond to the full sample.

Figure D3: Evolution of the Demand for Economic Criteria - Controlling for Marital Status



Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to economic criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad, the month of publication and the marital status indicated in the supply side (single, divorced or widow). Graphs (a) and (b) respectively include ads written by women and men. White filled markers correspond to the main specification controlling for stated marital status (single, divorced, widow). Confidence intervals are obtained on this sub-sample. Filled markers correspond to the main specification.

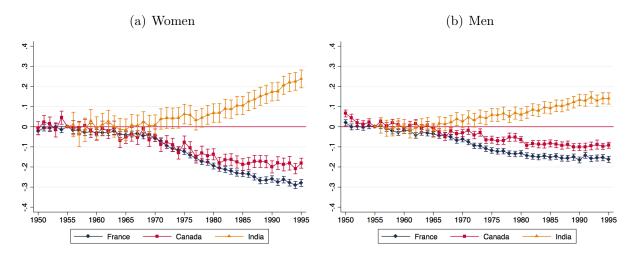
Figure D4: Evolution of the Demand for Economic Criteria - By Marital Status (Full Sample vs Re-entering Marriage Market)



Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to economic criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men. White filled markers correspond to individuals who re-enter the marriage market and state being divorced or widow. Confidence intervals are obtained on this sub-sample. Filled markers correspond to the full sample.

D.3 Composition Effects: Economic Criteria in the Supply Side

Figure D5: Evolution of the Demand for Economic Criteria - Controlling for Economic Criteria in the Supply Side



Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to economic criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad, the month of publication and the share of economic criteria in the supply side. Graphs (a) and (b) respectively include ads written by women and men.

D.4 Composition Effects: Choice of Newspaper Outlet

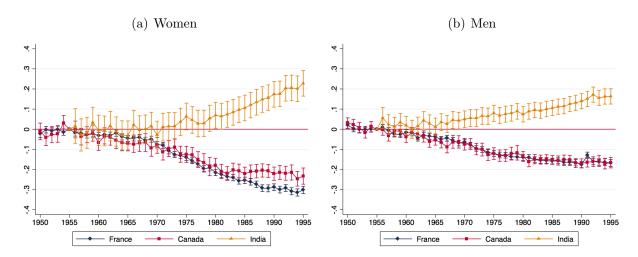
Table D2: Explanatory power of newspapers fixed-effects

Variance	Woman	Man		
Panel A: Demand for Personality criteria				
R^2	0.0201	0.0131		
Panel B: Demand for Economic criteria				
R^2	0.029	0.0073		

Notes: the data come from matrimonial ads published in 41 English-speaking newspapers from the US and Canada in 1995. The Table shows the resulting R^2 of a specification where the outcome variable is the share of words related to a given criterion and the explanatory variables are newspapers fixed-effects.

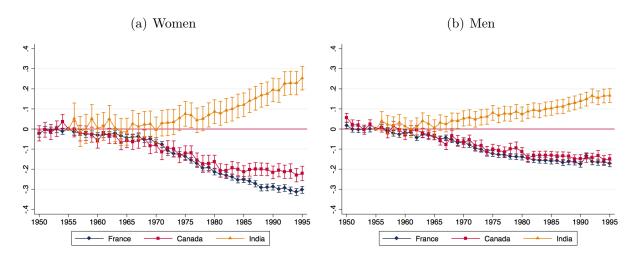
D.5 Composition Effects: Repeated Ads

Figure D6: Main Results without Similar Ads (Jaccard Index < 0.5)



Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to economic criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men. For every pair of ad in the sample, we computed the Jaccard similarity coefficient. The sample includes only ads with a coefficient strictly lower than 0.5, indicating that there does not exist another ad in the sample that share at least 50% of the words in common.

Figure D7: Main Results without Similar Ads (Jaccard Index < 0.7)

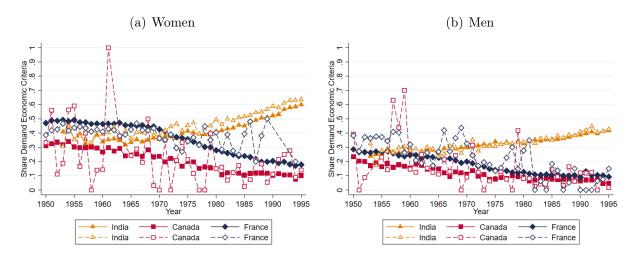


Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is the share of words related to economic criteria in the demand side. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men. For every pair of ad in the sample, we computed the Jaccard similarity coefficient. The sample includes only ads with a coefficient strictly lower than 0.7, indicating that there does not exist another ad in the sample that share at least 70% of the words in common.

D.6 The Role of Parents

In this section, we show how the content of ads with and without the mention of parents varies. It should be stressed that in the two Western countries (particularly in Canada), a very small share of ads mention parents (see Figure 8). We observe essentially similar trends for France and India. In Canada, the trends are too unstable due to the small number of observations.

Figure D8: Demand for Economic Criteria - Ads with and without mention of parents

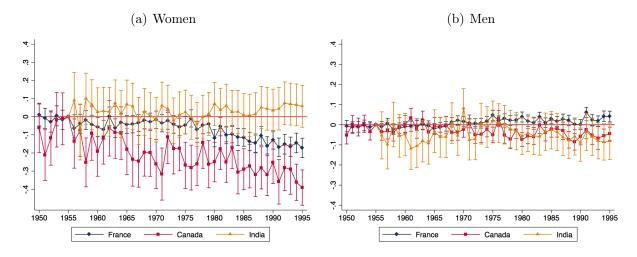


Notes: the data come from matrimonial ads published in Canada, France and India. Graphs (a) and (b) respectively include ads written by women and men.

D.7 The Emergence of Social Norms

D.7.1 Indirect Ways to Demand Economic Criteria

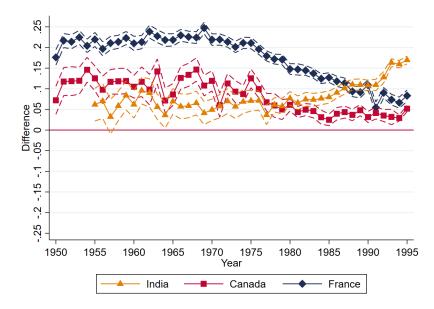
Figure D9: Evolution of the Demand for Older Partners



Notes: the data come from matrimonial ads published in Canada, France and India. The outcome is a dummy variable that equals 1 if the individual is looking for someone older. The reference year is 1955. Control variables include the number of words in the ad and the month of publication. Graphs (a) and (b) respectively include ads written by women and men.

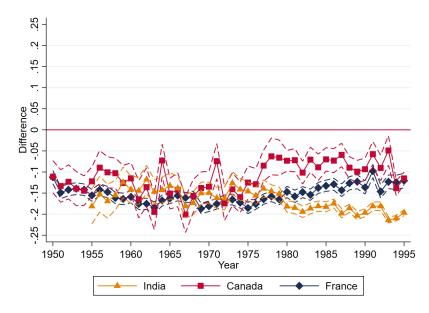
D.7.2 Replicating Stylized Facts

Figure D10: Replicating Stylized Facts - Sex Differences in the Demand for Economic Attributes



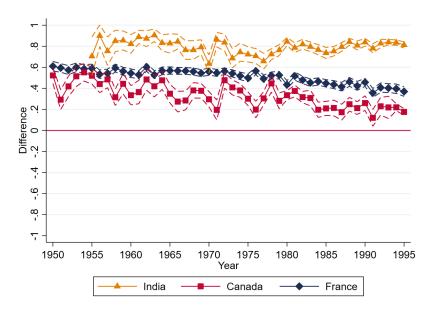
Notes: the data come from matrimonial ads published in Canada, France and India. The y-axis represents the difference in the average demand for economic attributes between women and men per year.

Figure D11: Replicating Stylized Facts - Sex Differences in the Demand for Physical Attributes



Notes: the data come from matrimonial ads published in Canada, France and India. The y-axis represents the difference in the average demand for physical attributes between women and men per year.

Figure D12: Replicating Stylized Facts - Sex Differences in Age Gap



Notes: the data come from matrimonial ads published in Canada, France and India. The y-axis represents the difference between the proportion of women and men stating that they prefer an older partner per year.

D.8 A Change in Partner Preference

Figure D13: Evolution of the share of economic criteria and labour force participation gap in India $\,$

