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# Working Paper Household Decisions and the Gender Gap in Job Satisfaction

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## **ABSTRACT**

## Household Decisions and the Gender Gap in Job Satisfaction\*

This paper offers a novel theoretical explanation for the gender gap in job satisfaction, where women typically report higher job satisfaction than men. We argue that rational family decisions can result in divergent job choices for women and men, leading to increased job satisfaction but lower earnings for women, even when their preferences and expectations align with those of men. We develop this explanation within a theoretical model of collective household decision-making that considers relative earnings disparities within households. We provide empirical evidence supporting our model's predictions utilizing survey and administrative data from Canada.

**JEL Classification:** D13, J28, J16

**Keywords:** job satisfaction, gender gap, households

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## 1 Introduction

The stubborn persistence of the gender wage gap despite the remarkable catching-up of women in many aspects of economic and social life remains one of the most important phenomena studied in (labor) economics (e.g., Blau & Kahn, 2017; Cook et al., 2020; Goldin, 2014; Kleven et al., 2023). One approach to explaining remaining gender gaps, reviewed by Bertrand (2011), Azmat and Petrongolo (2014), and Blau and Kahn (2017), attributes its underlying causes to intrinsic gender differences in preferences, expectations, personality traits, and norms. An example is the gender gap in labor-market expectations (Filippin & Ichino, 2005; Kiessling et al., 2019; Reuben et al., 2017). This hypothesis postulates that women have grown accustomed to worse labor-market outcomes and have adapted their expectations accordingly. As a result, employers can make worse offers to women, taking advantage of their lower expectations. Another example is the hypothesis that gender differences exist in job preferences, with women placing relatively less value on pay compared to men, while placing relatively more value on non-pay characteristics. This can lead to the sorting of women into jobs with lower pay (Card et al., 2015; Le Barbanchon et al., 2020; Mas & Pallais, 2017). Both the expectations hypothesis and the preference hypothesis suggest that women tend to be more satisfied with their jobs than men, conditional on pay. In fact, such a gender gap in job satisfaction has been frequently observed in the literature (e.g., Bender et al., 2005; Clark, 1997; Estrin et al., 2014; Mason, 1995; Perugini & Vladisavljević, 2019; Sloane & Williams, 2000), which is usually seen as evidence in support of these hypotheses.

In this paper, we present an alternative perspective on the gender gap in job satisfaction. Our explanation departs from the conventional reliance on behavioral gender differences in unobservable expectations formation or on gender differences in preferences.

Instead, we argue that rational decision-making in family households results in different job choices for women and men, ultimately leading to greater job satisfaction among women, even when their underlying preferences and expectations are identical to men's. We develop this explanation within a theoretical model of household decision-making and provide empirical evidence in support of the model's predictions utilizing Canadian household data.

We build on the idiosyncrasy model of job choice, as set up by, e.g., Card et al. (2018) and Wiswall and Zafar (2018), where jobs possess idiosyncratic non-pay attributes, and workers exhibit idiosyncratic preferences over these characteristics. When making rational job choices, workers weigh both the pay and non-pay aspects of different job offers. We expand upon this framework by taking into account that a majority of workers live in family households, with many being part of dual-earner couples who may opt for joint job choice decisions. Our model encompasses single workers, couples who make job choices cooperatively, and couples whose members make job choices individually without cooperation.

Our model incorporates heterogeneity in relative earning potentials across individuals, allowing for the identification of primary and secondary earners in couple households. The model predicts that, on average, secondary earners in dual-earner couple households are more satisfied with their jobs than the primary earners of those households. This prediction holds for both cooperative and non-cooperative couples. However, the job satisfaction gap between secondary and primary earners is more pronounced among cooperative couples.

The secondary-primary earner job satisfaction gap can be attributed to the lower reliance of the family on the secondary earners' labor earnings, thus diminishing the significance of income as a determining factor for secondary earners' workplace choices. Consider a dual-earner household where the earning potentials of the spouses differ. In such cases, a certain percentage increase in income becomes more crucial when it concerns the spouse with higher earning potential. Consequently, pay differentials between job offers are relatively important in this spouse's job selection process. Conversely, nonpay characteristics become more important in the decision-making process for the other spouse's job selection. As a result, secondary earners are more likely to align their employers' non-pay characteristics with their preferences, leading to better matches between the chosen workplace and job preferences at the expense of lower wages. For primary earners, the reverse holds: families prioritize pay when choosing the workplaces of these members which results in higher pay, yet, a worse alignment of non-pay preferences to employer characteristics. Since family members share income but not the direct utility derived from their jobs, secondary earners tend to experience higher job satisfaction, which we define as the utility differential compared to the alternative scenario of working for the next best firm. Given that, statistically, most women are secondary earners in their households (a factor we consider exogenous in our analysis), our model predicts higher average levels of job satisfaction among women than men. On the flip side, the mechanism also implies an amplification of pay differences between men and women due to the different emphasis placed on the pay dimension in their respective job choices.

Thus, our model rationalizes the gender gap in job satisfaction, attributing it to the correlation between gender and earner status within one's family, without implying a direct causal effect of gender on job satisfaction when conditioned on earner roles. To

<sup>&</sup>lt;sup>1</sup>It is important to note that the assumption about gender and earner types does not imply assuming that women's earnings potentials are systematically lower than men's. The distribution of relative earnings potentials within couples can instead be a result of the marriage market. As shown by Almås et al. (2020), women tend to marry partners with higher earnings potentials, and high-earnings potential women are more likely to remain without a partner.

formalize this, our model allows us to derive the following hypotheses regarding the interplay of gender, families, and job satisfaction: First, on average, women express higher satisfaction with a given job than men. Second, there is no job satisfaction gap between women and men when we narrow our focus to households without primary and secondary earners, i.e., to singles. Furthermore, the presence of children in the household can play a significant role, as it induces parents to engage in cooperative joint decision-making or strengthen their ability to do so. This implies that, third, the presence of children should widen the gender gap in job satisfaction. Fourth, in dual-earner couple households where the woman takes on the primary earner role, the model predicts that the average job satisfaction of women will not surpass that of men.

These predictions stand in contrast to alternative explanations for the gender gap in job satisfaction. According to the expectation hypothesis, women maintain lower expectations regarding job attributes due to their anticipation of encountering gender-based discrimination or unequal treatment, which results in them being more easily satisfied given their diminished expectations (Clark, 1997; Perugini & Vladisavljević, 2019). On the other hand, according to the preference hypothesis, women tend to sort into jobs with objectively more favorable non-pay characteristics, leading to higher levels of job satisfaction (Bender et al., 2005; Sloane & Williams, 2000). Unlike our previous predictions, these alternative explanations would apply to all women, regardless of their earner status.

To test our hypotheses, we utilize survey data from Canada. Specifically, we use the 2016 Canadian General Social Survey (GSS), which includes modules on job satisfaction and job quality attributes, provides essential control variables (including non-pay job characteristics not commonly found in household surveys), and offers access to personal and family income data obtained through linkages with survey respondents' administrative

tax records. We estimate ordered-probit models with job satisfaction as the dependent variable and gender as the primary independent variable. We control for pay, various non-pay job characteristics, and worker demographics, after having employed nearest neighbor matching techniques to ensure our sample consists of men and women with comparable individual and job characteristics. In doing so, we aim to compare the job satisfaction of observationally identical men and women in observationally identical jobs. This results in a comparison between men and women who share identical individual characteristics but differ in their partner's characteristics and, consequently, their roles as primary or secondary earners in their respective households. In our total sample, we estimate that women are approximately five percentage points more likely to report being satisfied or very satisfied with their job compared to men with similar individual characteristics.<sup>2</sup>

The results for different subsamples provide support for the model predictions. For example, we observe a gender gap in job satisfaction among married individuals, but no significant gap among singles. Furthermore, the gender gap in job satisfaction is more pronounced among married individuals with children, with the presence of children being our proxy indicator for a high chance of cooperative decision making between the parents. In contrast, among childless married couples, a higher share of whom might take decisions non-cooperatively, we observe only a weak and mildly significant gender gap in job satisfaction. Finally, we distinguish between couple households with traditional earner roles (where men are the main breadwinners) and those with non-traditional earner roles (where women are the main breadwinners). In line with our theoretical model, we find no systematic gender gap in job satisfaction in couples with non-traditional earner roles. In couples with traditional earner roles, we observe that women's job satisfaction very

<sup>&</sup>lt;sup>2</sup>In their most comparable specification, Perugini and Vladisavljević (2019) report a similar estimate of about four and half percentage points for European data.

regularly exceeds that of men, further underscoring the significance of within-household earner roles in influencing job satisfaction.

Related literature. Our paper contributes to two interconnected areas of the literature. First, we are among those papers seeking to shed light on the reasons for the persistence of gender disparities in the labor market. Second, we reexamine the question of why women tend to, on average, express higher job satisfaction. We provide fresh insights into the gender gap in job satisfaction by presenting a novel theoretical explanation rooted in rational family decision-making. This explanation diverges from the hypotheses commonly discussed, which center around gender differences in expectations and preferences.

Two predominant approaches exist in the literature concerning the reasons for persistent wage gaps between genders. The first approach, as reviewed by Bertrand (2011), Azmat and Petrongolo (2014), and Blau and Kahn (2017), argues that gender differences in preferences, expectations, and personality traits as well as societal norms contribute to women's career trajectories being less steep. The second approach underscores the role of the family in explaining significant gender disparities in labor market outcomes. Foged (2016), Braun et al. (2021), and Averkamp et al. (2024) show how the rational decisions of households can magnify gender discrepancies in pay, even when differences in most payrelated attributes have become minimal.<sup>3</sup> Our analysis aligns with the latter approach, providing a rationale for the gender gap in job satisfaction through the lens of rational

<sup>&</sup>lt;sup>3</sup>In a broader context, considering labor-supply decisions in dual-earner households as interdependent and collective choices of household members has advanced our understandings of consumption insurance against wage shocks (e.g., Autor et al., 2019; Blundell et al., 2016; Wu & Krueger, 2021), the intertemporal elasticity of labor supply (e.g., Bredemeier et al., 2019, 2023), the determinants of female labor supply (e.g., Bick, 2016; Bick & Fuchs-Schündeln, 2017, 2018; Bredemeier & Jüßen, 2013; Guner et al., 2012a, 2012b), unemployment insurance (e.g., Choi & Valladares-Esteban, 2020; Ortigueira & Siassi, 2013), and pension systems (e.g., Groneck & Wallenius, 2020; Nishiyama, 2019). Empirical evidence for the collective approach to modeling labor supply is provided by, e.g., Cherchye et al. (2012) and Donni and Moreau (2007).

family decision-making. Our theoretical mechanism not only provides an explanation for the gender gap in job satisfaction but also amplifies gender disparities in earnings.

Our model aligns with a wealth of evidence indicating that dual-earner households tend to prioritize pay in decisions related to the primary earner's career, typically the man's, while emphasizing non-pay characteristics in the job choices of the secondary earner, typically the woman. For example, Petrongolo and Ronchi (2020) and Le Barbanchon et al. (2020) present evidence that women, more frequently than men, make trade-offs favoring non-pay job attributes like shorter commutes or flexible work schedules over better earnings. In a similar vein, Cortés and Tessada (2011) and Cortés and Pan (2019) highlight families' hesitance toward excessive overtime worked by women. Additionally, Bredemeier (2019) shows that men's quit decisions are more strongly driven by pay differences between firms than women's. Albrecht et al. (2018) observe that men experience greater wage gains when switching employers compared to women, whose transitions between firms seem motivated by job attributes other than pay. Hotz et al. (2018) demonstrate that women tend to transition to more "family-friendly" jobs after becoming mothers. Mas and Pallais (2017) observe that women are more willing to pay for job attitudes that prioritize family-friendliness. Pertold-Gebicka et al. (2016) find that women more frequently shift from private sector jobs with time pressure and long working hours to public sector positions. Amer-Mestre and Charpin (2022) find that women tend to accept lower pay in exchange for lower time requirements, less competition, and higher social contribution. Lochner and Merkl (2023) document that women apply less often for high-pay jobs and more often for job that require less flexibility in terms of working times, overhours, and business travel. Card et al. (2015) show that women working less frequently for high-pay firms contributes substantially to the gender wage gap. While this evidence also aligns with the hypothesis of gender differences in preferences, our comparison of dual-earner couples with traditional and non-traditional earner roles suggests that the preference hypothesis alone falls short in explaining these patterns. Instead, our findings support the idea that the varied job choices of couples are influenced by rational decisions reflecting their distinct relative earning potentials.

In the job satisfaction literature, numerous studies have explored gender differences in job satisfaction since Clark (1997) seminal contribution, highlighting the seeming paradox of women's high job satisfaction. While not explicitly designed to test competing explanations, these empirical studies have yielded findings that closely align with our proposed explanation. For example, the gender gap in job satisfaction has been observed to decrease over time (e.g., Pita & Torregrosa, 2021), which, through the lens of our theory, is not surprising given the rise in women's relative earnings, declining fertility, and looser attachments to marriages. Likewise, the job satisfaction gap has been shown to be smaller or even non-existent in specific population subgroups (e.g., Bönte & Krabel, 2014), for which it is likely that they include relatively few women who are secondary earners in their households. To test the expectations hypothesis, Perugini and Vladisavljević (2019) examined European data and found that the gender gap in job satisfaction narrows among women who grew up in less gender-conservative environments. They interpret this result as support for the expectations hypothesis, suggesting that women from such backgrounds have higher expectations regarding their labor-market outcomes. However, it is important to note that these women may also be less likely to take on the traditional secondary-earner role in their partnerships. Consequently, their findings align with our perspective on the gender gap in job satisfaction.

A second group of papers within the job satisfaction literature, notably Bender et

al. (2005) and Sloane and Williams (2000), have challenged the expectations hypothesis. Instead, they argue that gender differences in job satisfaction arise from women self-selecting into jobs with specific non-pay characteristics. These papers leave this selection unexplained, attributing it to gender differences in preferences. Yet, if the gender gap in job satisfaction resulted solely from women's preferences, it should be present across all women, including singles and those with non-traditional earning roles. Our empirical findings, however, contradict this prediction.

The paper is structured as follows. Section 2 outlines our model for rational job choice, from which we derive testable predictions regarding the role of household decisions in explaining the gender gap in job satisfaction. Section 3 presents our data and the empirical strategy used to test these predictions. Section 4 presents the results of our analysis. Finally, Section 5 concludes.

### 2 Theoretical Model

We expand upon the idiosyncrasy model of job choice, as set up by, e.g., Card et al. (2018) and Wiswall and Zafar (2018) by considering family households and the collective choices of its members.<sup>4</sup> Our model comprises heterogeneous individuals residing in single or couple households, all of whom make job choice decisions within their respective households. Agents in our model differ in their preferences for pay and non-pay job attributes and their income potential across various employers. These disparities in earnings potential arise from observable attributes such as education, match-specific productivity, and unobservable characteristics. Our model will determine the optimal job choices for various individuals and household groups and subsequently calculate job satisfaction, defined as

<sup>&</sup>lt;sup>4</sup>As similar model has been used by Bredemeier (2019) to study gender-specific elasticities of labor supply to individual firms and their impact on firms' wage-posting decision.

the utility difference between the selected job and a unilateral deviation to the next best job.

Initially, our model deliberately excludes considerations related to gender. In our framework, households consist of members categorized as either primary earners or secondary earners. The model remains agnostic about the underlying reasons for individuals being secondary earners. Instead, it operates on the premise that, other things being equal, secondary earners earn less due to exogenous (and unobservable) factors, which may be amplified endogenously through household choices.

Subsequently, our analysis introduces gender into the model. It is important to note that, in our model, the only distinction between women and men is that women statistically more frequently occupy the role of secondary earners. We do not explore the causes of this phenomenon, but our analysis starts with this observation, which we assume as an exogenous input into our model. We then study the consequences of this observation for the gender gap in job satisfaction.

## 2.1 Model Set-up and Decisions

The model is populated by individuals who live in one-person households (singles) or couple households (consisting of two members). In both single and couple households, individuals make decisions related to their consumption and workplace choices. Partners within a couple may choose to take these decisions jointly. Individuals care about various aspects of a job, not just the wage, and jobs differ in pay and non-pay characteristics.

Each individual i can choose between different employers  $j \in J$ , which offer individualized wage earnings  $w_{i,j}$  and provide direct utility  $e_{i,j}$  to the workers. Workers have idiosyncratic preferences over workplaces, i.e., the distribution of the  $e_{i,j}$  across the various firms j varies among different individuals i.

We will use use the following notation for couple households: individual i lives together with individual -i in household I. Within a household, consumption is public and financed by the pooled earnings of both members, i.e.,

$$c_i = c_{-i} = c_I = w_{i,j(i)} + w_{-i,j(-i)},$$
 (1)

where c denotes consumption and j(i) and j(-i) are the employers chosen by household I for individuals i and -i, respectively. Individual preferences are given by

$$u_i = \log(c_i) + e_{i,j(i)} + \Psi_i \mathbb{1}_I,$$

where  $\Psi$  is a direct utility enhancement that individuals experience when they live in a cooperative relationship, indicated by  $\mathbb{1}_I = 1$ .

Couple households maximize the total utility of their members

$$V_I = u_i + u_{-i} = 2\log(c_I) + e_{i,j(i)} + e_{-i,j(-i)} + (\Psi_i + \Psi_{-i})\mathbb{1}_I$$

subject to the budget constraint (1) and participation constraints, which state that members must not be better off in their outside option of non-cooperative behavior in the household,

$$u_i \ge u_i^{nc}, \ u_{-i} \ge u_{-i}^{nc}.$$
 (2)

The utility values of the outside options,  $u_i^{nc}$  and  $u_{-i}^{nc}$ , are given by values of individual maximization of  $u_i$  and  $u_{-i}$  subject to the joint budget constraint (1).

For the sake of simplicity in our analysis, we will distinguish between couples for whom  $\Psi_i$  and  $\Psi_{-i}$  are large enough for (2) to be slack (cooperative couples) and couples for whom  $\Psi_i = \Psi_{-i} = 0$  such that their choices align with the non-cooperative equilibrium (non-cooperative couples). Together with singles, who maximize utility  $u_i = \log(c_i) + e_{i,j(i)}$ 

subject to  $c_i = w_{i,j(i)}$ , we have three distinct groups of households. We use the index g to distinguish between these groups and indicate cooperative couples by g = c, non-cooperative couples by g = nc, and singles by g = s.

Cooperative couples. The optimal choice of employers by a household I must satisfy that the household would be no better off if one of its members switched to another firm, given the employer of the other member. In formal terms, the optimal employer choices, denoted as j(i) and j(-i), must satisfy  $u_{i,j(i),j(-i)} + u_{-i,j(i),j(-i)} \ge u_{i,j',j(-i)} + u_{-i,j',j(-i)}$   $\forall j' \in J$  and  $u_{i,j(i),j(-i)} + u_{-i,j(i),j(-i)} \ge u_{i,j(i),j'} + u_{-i,j(i),j'} \ \forall j' \in J$ . By rearranging terms and approximating  $\exp(-(e_{i,j(i)} - e_{i,j'})/2) - 1$  by  $-(e_{i,j(i)} - e_{i,j'})/2$ , we can express the optimality condition for member i as

$$\frac{w_{i,j(i)} - w_{i,j'}}{w_{i,j(i)}} \ge \frac{1}{2} \cdot \Omega_{i,j(i),j(-i)}^{-1} \cdot \left(e_{i,j'} - e_{i,j(i)}\right),\tag{3}$$

where  $\Omega_{i,j(i),j(-i)} = \frac{w_{i,j(i)}}{w_{i,j(i)}+w_{-i,j(-i)}}$  is the share worker *i* contributes to household earnings.

Condition (3) compares what worker i could earn at two firms (left-hand side) to the difference in direct utility they would obtain at the two firms (second term on the right-hand side). In order for the current employer, denoted as j(i), to retain the worker and prevent him or her from switching to another firm, j', that would provide a higher level of direct utility, the employer needs to offer a sufficiently better wage. However, the extent of this wage difference hinges on the worker's contribution to household income,  $\Omega$ . The higher the share of household income contributed by member i (large  $\Omega$ ), the less difference in direct utility are weighted in the household's choice of this member's employer. Reversely, regarding members who contribute little to household income (small  $\Omega$ ), difference in direct utility between employers are heavily important for household decisions. As a result, secondary earners ( $\Omega < 1/2$ ) tend to obtain more direct utility

from their workplaces than primary earners  $(\Omega > 1/2)$ .

Non-cooperative couples. The optimality conditions for non-cooperative couples look similar. However, in this context, job choices must ensure that each individual is better off with their chosen employer than with the available alternatives, given the employer choice of their partner (Nash equilibrium). This equilibrium must fulfill  $u_{i,j(i),j(-i)} \geq u_{i,j',j(-i)}$   $\forall j' \in J$  and  $u_{-i,j(i),j(-i)} \geq u_{-i,j(i),j'} \ \forall j' \in J$ . Applying analogous steps as above, we obtain

$$\frac{w_{i,j(i)} - w_{i,j'}}{w_{i,j(i)}} \ge \Omega_{i,j(i),j(-i)}^{-1} \cdot \left(e_{i,j'} - e_{i,j(i)}\right). \tag{4}$$

Workers in non-cooperative couples perform a similar assessment of a job's advantages and drawbacks, but they consistently assign greater importance to non-pay characteristics compared to an equivalent cooperative household. In cooperative decision making, the household makes its members internalize the positive impact of a better paying job on the respective partner while this is not achieved in non-cooperative couples. This implies that the tendency to prioritize aligning secondary earners with their individual preferences, while selecting relatively high-paying jobs for primary earners, is also present in non-cooperative couples. However, this tendency is more pronounced in cooperative couples, while in non-cooperative couples, it occurs to a lesser extent.

**Singles.** A single's job choice must fulfill that the agent is better off at this than at any other firm:  $u_{i,j(i)} \ge u_{i,j'} \ \forall j' \in J$ . This implies

$$\frac{w_{i,j(i)} - w_{i,j'}}{w_{i,j(i)}} \ge e_{i,j'} - e_{i,j(i)},\tag{5}$$

which is the equal to the condition for non-cooperative couples in the limiting case  $\Omega \to 1$  (the partner's income converges to zero).

## 2.2 Deriving Closed-Form Results in a Simplified Model

We now assume some additional structure which simplifies the model and allows us to derive closed-form solution. First, wage earnings in a match are determined as the sum of three components,

$$\log(w_{i,j}) = \log(\alpha_i) + \log(\theta_i) + \log(\gamma_{i,j}), \tag{6}$$

where  $\alpha_i$  is a measurable skill level, such as education,  $\theta_i$  denotes an unobservable individual-specific earnings component, and  $\gamma_{i,j}$  is an unobservable match-specific productivity component.

For simplicity, we discretize  $\theta_i$  and  $\gamma_i$ , which can both take on either low values normalized to one or high values denoted by  $\theta > 1$  and  $\gamma > 1$ . To simplify our analysis further, we assume perfect assortative mating by measurable skills, i.e.,  $\alpha_i = \alpha_{-i}$  for all individuals in couples, and we focus on couples in which  $\theta_i \neq \theta_{-i}$ . The latter choice allows for comparative advantages within the couple and ensures a clear identification of primary and secondary earners.<sup>5</sup> The parameter  $\theta$  is a stand-in for a broad range of underlying causes of within-household earnings heterogeneity that are challenging to observe, such as ability and comparative advantage in home production relative to market work. Our main concern is not the specific reasons behind an individual being designated as a secondary earner but the consequences of this designation for employer choices and job satisfaction. Additionally, the size of  $\theta$  is not a critical factor; it does not need to be large; even a small value suffices as long as its log-transformed value remains greater than zero.

Matches with  $\gamma_{i,j} = \gamma$  constitute good worker-firm matches in terms of productivity, as opposed to those with  $\gamma_{i,j} = 1.6$  Worker-firm matches also differ in how well worker

<sup>&</sup>lt;sup>5</sup>Potentially, household choices could lead to earnings of the individual with the lower  $\theta_i$  exceeding those of the partner. Yet, this does not occur in equilibrium, see below.

<sup>&</sup>lt;sup>6</sup>While the skill parameter  $\alpha_i$  has no direct impact on decisions due to the assumption of log utility

and firm align in non-pay terms. If the firms characteristics align well with a worker's preferences, the worker receives a utility boost,  $e_i = e_i^{high} = \eta_i > 0$ . If they do not align well, the utility boost is given by  $e^{low}$ , which, without loss of generality, we set to  $e_i^{low} = -e_i^{high} = -\eta_i$ . As e is an additive taste shifter, all that matters is the difference between its realizations and not their level (which is nothing but an additive transformation of the utility function). The parameter  $\eta_i$  can be seen as measuring the importance of non-pay characteristics for the individual and we assume that it is equal within the household,  $\eta_{-i} = \eta_i = \eta_I$ . The distribution of  $\eta_I$  is identical across all three household types and described by the distribution function  $f(\eta)$  and the cumulative distribution function  $F(\eta)$ . This assumption ensures that outcomes are not influenced by specific groups attributing different values to non-pay job characteristics due to exogenous factors.

To narrow our focus to non-trivial decisions, we specifically examine worker choices between two distinct job types: i) a job that aligns well with productivity but is a sub-optimal match regarding non-pay characteristics, and ii) a job that exhibits the opposite pattern, where non-pay characteristics are a good match, but productivity is lower. In other words, we consider the scenario where  $\gamma_{i,j} = \gamma \Leftrightarrow e_{i,j} = -\eta$ , and  $\gamma_{i,j} = 1 \Leftrightarrow e_{i,j} = \eta$ .

and perfect assortative mating, it plays a crucial role in our model when applied to interpret the results of empirical job satisfaction regressions. In these regressions, income often serves as a control variable, enabling comparisons between two workers with the same earnings but differences in other characteristics. In our model, we can, for instance, compare a high  $\theta_i$  type worker 1 in a high-productivity match to a low- $\theta_i$  worker 2 in a good non-pay match. These workers have identical earnings when their relative skill components satisfy the condition  $\alpha_2/\alpha_1 = \theta\gamma$ .

tain comparability between the model analysis and our empirical investigation, in which we control for pay and non-pay characteristics, hence comparing men and women who are identical in these dimensions. In the model, primary and secondary earners have the same employer distribution, ensuring that both have equivalent distributions of pay and non-pay characteristics. In this way, our analysis goes beyond the notion that women tend to sort towards employers with lower productivity in general (our model does not even include firm-specific productivity components). Instead, it relies on the idea that secondary earners, who are statistically predominantly women, tend to work for employers with whom they individually have a less favorable productivity match. This distinction is essential because income is typically controlled for in job satisfaction regressions. Consequently, gender-related results cannot be explained by sorting into firms with lower overall pay levels alone.

Job choices. This framework enables the determination of closed-form threshold values for a worker's valuation of non-pay job characteristics,  $\eta_i$ . This threshold indicate the boundary below which worker i works in a favorable productivity match and above which they participate in a favorable non-pay match. The threshold depends on the worker's household type and, potentially, the unobservable earnings component,  $\theta_i$ . We define  $\underline{\eta}_g$  as the threshold for a low- $\theta_i$  worker living in household type g, and  $\overline{\eta}_g$  as the corresponding threshold for a high- $\theta_i$  worker within household type g.

For cooperative couples, applying condition (3) to the structure outlined above, yields the thresholds for job choices of the secondary earner (a low- $\theta_i$  type) and the primary earner (a high- $\theta_i$  type) as  $\underline{\eta}_c = \log(\theta \gamma + \gamma) - \log(\theta \gamma + 1)$  and  $\overline{\eta}_c = \log(\theta \gamma + 1) - \log(\theta + 1)$ ,

<sup>&</sup>lt;sup>7</sup>This does not mean that our analysis contradicts this form of sorting. In fact, it can be rationalized by very similar considerations that we choose not to explore at this stage to maintain consistency with the empirical job satisfaction regressions.

respectively. Note that  $\overline{\eta}_c > \underline{\eta}_c$ . Consequently, three distinct scenarios arise: couples opting for good productivity matches for both members (when  $\eta_I < \underline{\eta}_c$ ), couples selecting good non-pay matches for both members (when  $\eta_I > \overline{\eta}_c$ ), and couples choosing a good productivity match for the primary earner and a good non-pay match for the secondary earner (when  $\eta_I$  falls between the two thresholds). This specific option will be of particular interest in our analysis.<sup>8</sup>

For non-cooperative couples, applying the equilibrium condition (4) results in the following thresholds:  $\underline{\eta}_{nc} = (\log(\theta \gamma + \gamma) - \log(\theta \gamma + 1))/2$  and  $\overline{\eta}_{nc} = (\log(\theta \gamma + 1) - \log(\theta + 1))/2$ . Notice that the threshold values in the non-cooperative case are each half as large as those in the cooperative case. Consequently, members of non-cooperative couples are more inclined to opt for favorable non-pay matches. This inclination arises because they do not fully internalize the advantages of their wages for their respective partners.

Condition (5) simplifies the determination of choices for singles. Independent of both  $\alpha_i$  and  $\theta_i$ , a single i chooses a favorable productivity match when  $\eta_i < \underline{\eta}_s = \overline{\eta}_s = \log(\gamma/2)$  and opts for a favorable non-pay match when  $\eta_i$  exceeds this threshold. It is noteworthy that among singles, job choices, and consequently, job satisfaction do not depend on the parameter  $\theta$ . Consequently, two groups differing in the distribution of this parameter, while being identical in all other aspects, will exhibit no difference in their average job satisfaction.

## 2.3 Amplification of Pay Differences

Before turning to job satisfaction, we briefly outline the implications of the employer choices on pay differences in our model. Our model aligns with the notion that family

<sup>&</sup>lt;sup>8</sup>In theory, households could also decide to choose a good non-pay match for the primary earner and a good productivity match for the secondary earner. However, this alternative is strictly dominated by the third choice, as it involves sacrificing income without any corresponding gain in total non-pay utility.

decisions amplify earnings differences between household members because families assign different weights to the pay and non-pay characteristics of a job when selecting workplaces for their members.

For any binary variable x, we define the difference operator  $\Delta_x$  such that  $\Delta_x(z_i)$  is the difference between the average of a variable z among agents with the low realization of x and the average of z among agents with the high realization of x. In our model, the gap in mean logarithmic earnings between individuals of the high- $\theta_i$  type (primary earners in couples) and individuals of the low- $\theta_i$  type (secondary earners in couples) is given by

$$\Delta_{\theta}(\log w_{i,j(i)}) = -\left(\log \theta + \Delta_{\theta}(\log \gamma_{i,j(i)})\right),\tag{7}$$

which follows from (6). This earnings gap has two components. First, there are exogenous earnings differences represented by the term  $\log \theta$ . Second, these exogenous differences are magnified as primary earners, by endogenous family choices, more frequently find themselves in good-productivity job matches, thereby realizing the associated earnings premium  $\gamma$  more often, that is  $\Delta_{\theta} \log \gamma_{i,j(i)} > 0$ .

Let  $\sigma_c$  and  $\sigma_{nc}$  represent the shares of cooperative and non-cooperative couples in the population, respectively. The economy-wide earnings gap can then be calculated as

$$\Delta_{\theta}(\log w_{i,j(i)}) = -\log \theta - \log \gamma \cdot \left[\sigma_c \left(F\left(\overline{\eta}\right) - F\left(\underline{\eta}\right)\right) + \sigma_{nc} \left(F\left(\frac{\overline{\eta}}{2}\right) - F\left(\frac{\underline{\eta}}{2}\right)\right)\right]. \tag{8}$$

For a detailed derivation, see Appendix A. The amplification of pay differences between primary and secondary earners is proportional to the prevalence of couples that opt for a high-productivity match for the primary earner and a strong non-pay match for the secondary earner. This prevalence is indicated by  $F(\bar{\eta}) - F(\underline{\eta})$  for cooperative couples and  $F(\bar{\eta}) - F(\bar{\eta})$  for non-cooperative couples.

## 2.4 Job Satisfaction

We define job satisfaction as the utility difference between the equilibrium and a unilateral deviation to the next best job and denote it by y. For a worker in a couple, job satisfaction is given by

$$y_i = u_{i,j(i)} - u_{i,-j(i)} = \log(w_{i,j(i)} + w_{-i,j(-i)}) - \log(w_{i,-j(i)} + w_{-i,j(-i)}) + e_{i,j(i)} - e_{i,-j(i)}.$$

Herein, -j(i) denote the job worker i does not work in, i.e., their next best option. For not too large pay differences between firms, given by  $\gamma$ , job satisfaction can be expressed as

$$y_i \approx \underbrace{\frac{w_{i,j(i)} - w_{i,-j(i)}}{w_{i,j(i)}}}_{\text{pay gap to alternative job}} \times \underbrace{\Omega_{i,j(i),j(-i)}}_{\text{contribution to household earnings}} + \underbrace{2e_{i,j(i)}}_{\text{non-pay gap to alternative job}}$$
 (9)

Job satisfaction has two components. First, there is a pay component, which equals the earnings gap between the chosen and the alternative employer,  $\frac{w_{i,j(i)}-w_{i,-j(i)}}{w_{i,j(i)}}$ , weighted by the worker's contribution to household earnings,  $\Omega_{i,j(i),j(-i)}$ . In other words, other things being equal, primary earners' job satisfaction depends more strongly on the pay dimension of their jobs. Second, there is a non-pay component, which measures the utility difference between working for the two firms in the non-pay dimension and equals  $2e_{i,j(i)}$  in the simplified model version.<sup>9</sup> For a single household, job satisfaction calculates equivalently, with zero partner wage, i.e.,  $\Omega = 1$ . Due to the set-up of the simplified model, exactly one component is always positive while the other is negative. This reflects the trade-off for the worker, where they either sacrifice some pay for more appealing non-pay characteristics or vice versa.

<sup>&</sup>lt;sup>9</sup>To obtain this final term, we use that non-pay match quality in the not chosen job -j(i) is always the negative of match quality in the chosen job j(i), i.e.,  $e_{i,-j(i)} = -e_{i,j(i)}$  independent of whether  $e_{i,j(i)} = \eta$  or  $e_{i,j(i)} = -\eta$ .

Specifically, job satisfaction is given by

$$y_i = \begin{cases} \log(\gamma) \cdot \Omega_i - 2\eta_i, & \gamma_{i,j(i)} = \gamma \\ -\log(\gamma) \cdot \Omega_i + 2\eta_i, & \gamma_{i,j(i)} = 1 \end{cases}$$
 (10)

The first line shows job satisfaction for workers who opt for a good productivity match  $(\gamma_{i,j(i)} = \gamma)$ . These workers appreciate their chosen job primarily for its pay, which is  $\log \gamma$  higher than in the alternative job. The extent to which they value this benefit depends on their contribution to household earnings,  $\Omega$ . However, there is a trade-off, as the alternative job would better align with the worker's non-pay preferences, causing dissatisfaction with the chosen job. The strength of this effect varies based on the importance of non-pay characteristics to the worker, represented by  $\eta_i$ . Note that these workers tend to have lower valuations of non-pay job characteristics. As a result, the positive pay component typically outweighs the negative impact of non-pay considerations, although this balance diminishes as  $\eta_i$  approaches the threshold for choosing the favorable non-pay match.

For workers opting for a favorable non-pay match (applying the second line in equation (10)), dissatisfaction arises from receiving  $\log(\gamma)$  less than the alternative job. This downside is weighed with their contribution to household earnings,  $\Omega$ . However, on the positive side, these workers benefit from an alignment of their job with their non-pay preferences, an advantage that becomes increasingly important as  $\eta_i$  rises. Since these workers have rather high valuations of non-pay characteristics, this advantage tends to be the primary determinant of job satisfaction within this group, particularly as  $\eta_i$  increases.

Figure 1 provides a graphical synthesis of job satisfaction among various worker types and illustrates the job satisfaction gap. On the horizontal axes, we plot the importance of non-pay characteristics,  $\eta_i$ . The first column refers to individuals with high  $\theta_i$  ( $\theta_i = \theta$ ) and the second to individuals with low  $\theta_i$  ( $\theta_i = 1$ ). The first row of the figure shows the results for cooperative couples, the second row for non-cooperative couples, and the last row for

singles. Line colors correspond to the job choices made by the respective households. In the left and middle columns, equation (10) is visually depicted, highlighting how job satisfaction depends on three exogenous determinants: i) the classification of individual i as either a high- $\theta_i$  type (primary earner in a couple) or a low- $\theta_i$  type (secondary earner in a couple), ii) the household type in which individual i resides (g(i)), and iii) the significance of non-pay job characteristics  $\eta_i$ . The right column of Figure 1 illustrates the gap in job satisfaction between otherwise identical low- $\theta_i$  and high- $\theta_i$  individuals, formally expressed

as

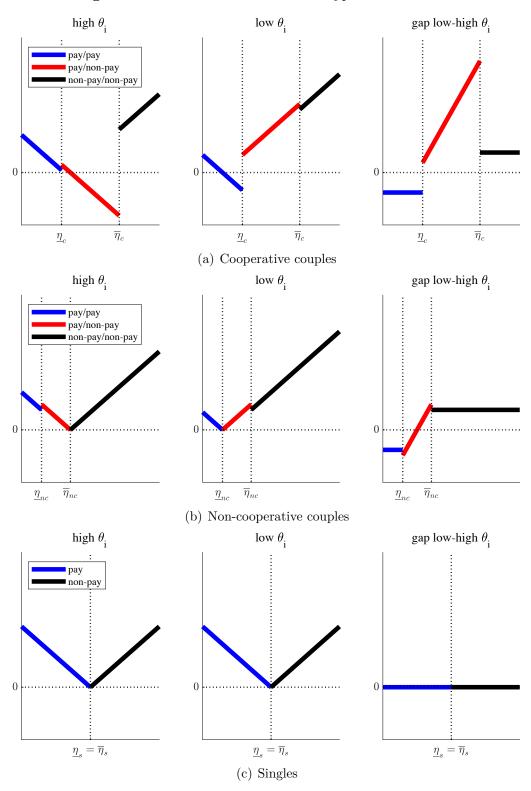
 $y_{\theta_{i}=1} - y_{\theta_{i}=\theta} = \begin{cases} \log(\gamma) \cdot (\Omega_{\theta_{i}=1} - \Omega_{\theta_{i}=\theta}), & \eta_{i} < \underline{\eta}_{g(i)} \\ -\log(\gamma) + 4\eta_{i}, & \underline{\eta}_{g(i)} < \eta_{i} < \overline{\eta}_{g(i)} \\ -\log(\gamma) \cdot (\Omega_{\theta_{i}=1} - \Omega_{\theta_{i}=\theta}), & \eta_{i} > \overline{\eta}_{g(i)} \end{cases}$ (11)

We begin with singles, where the parameter  $\theta$  has no impact on either job choices  $(\underline{\eta}_s = \overline{\eta}_s = \log(\gamma/2))$  or the contribution to household earnings  $(\Omega = 1)$ . Consequently, there exists no job satisfaction gap between workers differing in  $\theta_i$  among singles.

Among couples, such gaps do exist. In couples where both partners work in good productivity matches  $\eta_i < \underline{\eta}_{g(i)}$ , they experience equal dissatisfaction due to the mismatch of their jobs with their non-pay preferences. However, they appreciate the relative pay advantage of their chosen jobs compared to alternatives. The primary earner, with a higher earnings contribution  $\Omega$ , values this advantage more, resulting in higher job satisfaction for primary earners. Formally,  $y_{\theta_i=1} < y_{\theta_i=\theta}$  holds because  $\Omega_{\theta_i=1} < \Omega_{\theta_i=\theta}$ .

In couples where both partners choose favorable non-pay matches  $(\eta_i > \overline{\eta}_{g(i)})$ , the determinants of job satisfaction are reversed. Both partners equally appreciate the non-pay characteristics of their jobs but are dissatisfied with the lower pay relative to the alternative jobs. Once again, pay is valued more by primary earners with larger earnings contributions  $\Omega$ . Since, in this group, pay is a disadvantage of the chosen job relative to the alternative, secondary earners are more satisfied with their jobs. Formally,  $y_{\theta_i=1} > y_{\theta_i=\theta}$ 

Figure 1: Job satisfaction in different types of households.



Notes: Figure displays job satisfaction and the job satisfaction gap in (a) cooperative couples, (b) non-cooperative couples, and (c) single households across varying levels of the importance of non-pay characteristics  $\eta$ . First column represents job satisfaction for individuals with high  $\theta_i$  values (primary earners in a couple); second column illustrates job satisfaction for individuals with low  $\theta_i$  values (secondary earners in a couple); third column shows the job satisfaction gap between individuals with high and low  $\theta_i$  values. Line colors correspond to the job choices made by the respective households. In couples, the job choice for the primary earner is given first, i.e., "pay/non-pay" indicates couples where the primary earner is in a high-pay match, and the secondary earner is in a good non-pay match.

holds because  $\Omega_{\theta_i=1} < \Omega_{\theta_i=\theta}$ .

Finally, in couples where the secondary earner opts for a good non-pay match and the primary earner chooses a favorable productivity match  $(\underline{\eta}_{g(i)} < \eta_i < \overline{\eta}_{g(i)})$ , their relative levels of job satisfaction hinge on their valuation of non-pay job characteristics. As this valuation increases, secondary earners become more satisfied, while primary earners become less satisfied with their respective jobs. In couples that value non-pay characteristics sufficiently strongly, this results in an expanding job satisfaction gap between secondary and primary earner, with the former being more satisfied. Among cooperative couples, this combination of jobs is chosen by households with greater valuations of non-pay characteristics compared to non-cooperative couples  $(\underline{\eta}_c > \underline{\eta}_{nc})$  and  $\overline{\eta}_c > \overline{\eta}_{nc})$ . Consequently, the job satisfaction gap arising from choosing a good productivity match for the primary earner and a good non-pay match for the secondary earner is larger among cooperative couples than among non-cooperative couples.

Integrating over job satisfaction as given by equation (10), accounting for groupspecific threshold values  $\underline{\eta}_g$  and  $\overline{\eta}_g$ , the average gap in job satisfaction between low- $\theta_i$  and high- $\theta_i$  workers in a given household type g=c,nc,s can be calculated as

$$\Delta_{\theta}^{g}(y_{i}) = \log \gamma \cdot \left[ \Delta_{\theta}^{g}(\widetilde{\Omega}_{i}) \cdot \left( 1 - F(\overline{\eta}_{g}) - F(\underline{\eta}_{g}) \right) + F(\overline{\eta}_{g}) - F(\underline{\eta}_{g}) \right] + 4 \cdot \int_{\underline{\eta}_{g}}^{\overline{\eta}_{g}} \eta df(\eta), \quad (12)$$

where superscript g denotes the operator  $\Delta_{\theta}$  being applied only to members of group g, and  $\widetilde{\Omega}$  represents a worker's contribution to household income in the case where the partner (if present) makes the same job choice (it is 1 for singles and  $(\theta_i - \theta_{-i})/(\theta_i + \theta_{-i})$  for workers in couples).

In equation (12), the first part of the sum represents the gap in workers' satisfaction with their pay in their current jobs. This gap is influenced by the frequency of households making different choice combinations, represented by the cumulative densities of  $\eta$  at

respective threshold values. Additionally, it is affected by the strength of the impact of pay on job satisfaction, determined by earnings contributions  $\tilde{\Omega}$ . The second part, involving the integral, represents the gap in workers' satisfaction with non-pay aspects of their jobs. It is driven by the couple households that make distinct job choices for primary and secondary earners, reflected by the red lines in Figure 1.

Applying the respective values for earnings contributions  $\tilde{\Omega}$  and thresholds  $\underline{\eta}_g$  and  $\overline{\eta}_g$ , equation (12) can be used to determine and compare job satisfaction gaps in the different types of households. The following proposition summarizes the results of this exercise.

**Proposition 1** There exists a threshold value  $\underline{F}$  such that, if (but not only)

$$1 - F(\eta) > \underline{F},\tag{13}$$

i.e., if there is a sufficient mass of cooperative households where at least one member works in a good non-pay match, the following statements are true:

- i. In both non-cooperative and cooperative couples, secondary earners exhibit higher job satisfaction on average compared to primary earners,  $\Delta_{\theta}^{c}(y_{i}) > 0$ ,  $\Delta_{\theta}^{nc}(y_{i}) > 0$ .
- ii. The job satisfaction gap between secondary and primary earners is more pronounced in cooperative couples than in non-cooperative couples,  $\Delta_{\theta}^{c}(y_i) > \Delta_{\theta}^{nc}(y_i) > 0$ .
- iii. No job satisfaction gap exists between singles with different unobservable wage components,  $\Delta_{\theta}^{s}(y_{i}) = 0$ .

Proof: See Appendix A.

It is important to note that we can refine the model's alignment with the empirical analysis through a sample matching exercise, which we will perform later in our empirical analysis. In particular, for every worker 1 of the high- $\theta_i$  type, select as match a worker 2 of the

low- $\theta_i$  type for whom  $\alpha_2 = \alpha_1 \cdot \theta \cdot \gamma_{1,j(1)}/\gamma_{2,j(2)}$ . This is tantamount to dropping the high- $\theta_i$  workers with the highest skill levels  $\alpha$  and the low- $\theta_i$  workers with the lowest  $\alpha$  values from the sample, ensuring a common support for the distribution of individual worker's characteristics. Since decisions are independent of  $\alpha$ , Proposition 1 applies to the matched samples as well.

Incorporating gender. We now incorporate gender into our analysis. Let men and women differ in only one dimension: the prevalence of men as the primary earners in couples. In our model, this distinction arises from assuming gender-differences in the frequency of the different realizations for the unobservable wage component,  $\theta_i$ . Specifically, we assume that the high realization,  $\theta_i = \theta$ , is more frequent among men than women. It is important to clarify that this assumption is not tantamount to assuming systematically lower earnings potentials of women. Within-couple relative earnings potentials are as much a result of the marriage market as of the distribution of individual earnings potentials. Empirically, Almås et al. (2020) provide evidence for hypergamy – the tendency of women to marry men with higher earnings potentials. The study also shows that women with the highest potentials remain unmarried at disproportionally high rates. Hypergamy contributes to the prevalence of male primary earners, even in the absence of gender differences in the distributions of earnings potentials.

While the model features endogenous amplifications of gender differences in pay, see (8), we use it to derive testable implications regarding job satisfaction by gender. Specifically, from Proposition 1, we can derive the following hypotheses concerning a comparison between the average job satisfaction of women and men under the condition specified in equation (13):

H1: On average, women exhibit higher job satisfaction.

- H2: When considering single individuals, the job satisfaction gap between women and men vanishes, while it intensifies in a sample restricted to married individuals.
- H3: Restricting the samples of married individuals in a way that increases the share of individuals living in non-cooperative couples weakens the job satisfaction gap between women and men while the opposite restriction strengthens it.
- H4: Restricting the samples in a way that weakens the initial distribution of primaryearner status across groups weakens the job satisfaction gap between women and men while the opposite restriction strengthens it.

In the subsequent section, we will empirically evaluate these four hypotheses using data from Canada.

## 3 Data and Empirical Approach

In this section, we explain the data used and outline the empirical strategy applied to test the hypotheses we have derived from our theoretical analysis.

Data. We utilize data from the 2016 Canadian General Social Survey (GSS) conducted by Statistics Canada during GSS cycle 30. This particular GSS cycle stands out due to its inclusion of new modules focused on job satisfaction and job quality attributes. Our primary dependent variable is job satisfaction, derived from responses to the question, "In general, how satisfied are you with your current job?" Next to this question about overall satisfaction with one's job, the survey includes inquiries about workers' contentment with specific aspects of their jobs, which we consider in additional estimations. Next to the usual socio-demographic information (such as age, education, and health status), the GSS also provides essential control variables for our job satisfaction analysis, notably

information about non-pay job characteristics, a feature not commonly found in household surveys.

The 2016 GSS offers another valuable feature for our analysis—access to personal and family income data obtained through linkages with survey respondents' tax records. This linked income data source is known for its superior quality compared to income data collected directly through survey questions (Statistics Canada, 2018). The linked data includes personal income of the respondent and, importantly for our analysis, income of the respondent's family members. This is an improvement introduced in the 2016 GSS, because past waves captured only income of the household, which may include non-family members living in the same household with whom the respondent does not pool income.

**Empirical model.** Given that the responses to the job satisfaction question are presented in five ordinal Likert-scale categories – "very dissatisfied", "dissatisfied", "neither satisfied nor dissatisfied", "satisfied", and "very satisfied" – our empirical analysis employs ordered probit regressions. To streamline our analysis, we aggregate the job satisfaction responses into three main categories: "very dissatisfied/dissatisfied", "neither satisfied nor dissatisfied", and "satisfied/very satisfied".

The empirical model postulates the existence of an underlying latent variable, denoted as  $y_i$ , which quantifies workers' job satisfaction, defined in our theoretical model as the improvement relative to the relevant alternative, namely, the next best job. Respondents' answers to the job satisfaction question depend on whether their job satisfaction falls above or below certain thresholds  $\mu$ ,

$$JS_{i} = \begin{cases} \text{(very) dissatisfied} & y_{i} < \mu_{1} \\ \text{neither/nor} & \mu_{1} < y_{i} < \mu_{2} \\ \text{(very) satisfied} & y_{i} > \mu_{2} \end{cases}$$
 (14)

 $<sup>^{10}</sup>$ This approach combats issues of having too few observations for certain categories in the original Likert scale responses and is the strategy commonly applied in the literature (see, e.g., Hamermesh & Biddle, 1994).

The latent variable  $y_i$ , in turn, follows

$$y_i = \beta_0 + \beta_1 female_i + X_i' \beta_X + \beta_2 \lambda_i + \epsilon_i, \tag{15}$$

where female is a gender dummy, taking on a value of 1 if the individual is a woman. The vector  $X_i$  contains a set of control variables, and  $\lambda_i$  is the inverse Mills ratio from a Heckman (1979) selection correction model accounting for potential effects of selection into (dependent) employment.<sup>11</sup> The parameters  $\beta_0$ ,  $\beta_1$ , and  $\beta_2$  as well as the vector  $\beta_X$  are to be estimated and  $\epsilon_i$  is an error term.

The control variables represented in vector X include personal income, characteristics of the job (weekly working hours, overtime hours, occupation, sector, firm size, work benefits, work autonomy, teamwork environment, and location) and individual characteristics (age, education, health status, and other socio-demographic variables). Further details on the control variables and their measurement can be found in Table A.1 in Appendix B.

We employ maximum likelihood techniques to estimate the model specified in equations (14) and (15). In all estimations, we use survey sampling weights. The estimation process yields various parameters, with our primary interest centered on  $\beta_1$ . This parameter quantifies the gender gap in average underlying job satisfaction, controlling for the influence of the specified controls. To provide a meaningful interpretation of  $\beta_1$ , we express it as the differential probability between women and men of reporting satisfaction or very high satisfaction with their jobs.

In an additional evaluation, we also use the information about the individual's con-

<sup>&</sup>lt;sup>11</sup>Selection correction is potentially necessary as respondents report job satisfaction exclusively in (dependent) employment. The selection variables in our correction model include the presence of parents or in-laws, visible minority status, religious identity, family income, detailed marital status variables (widowed, separated, divorced, single, married), education level of the spouse, and the presence of young children. In accordance with previous literature (e.g., Clark, 1997), we also interact the selection variables with gender.

tentment with specific aspects of their job, specifically, the perception of doing useful work, the sense of accomplishment with work, feeling motivated to perform by the organization of work within the firm, and having a sense of belonging in the firm. Through the lens of our model, these aspects can be interpreted as components of the non-pay job utility, e. Our model has gender-specific implications for these non-pay job utilities: secondary earners, predominantly women, are more likely to work in jobs that align well with their non-pay preferences, leading to higher non-pay utility e for this group. To test this prediction, we construct an aggregated index of non-pay job utility as the first principal component of the aforementioned variables. This aggregated index of non-pay job utility serves as the dependent variable in OLS regressions, with the same right-hand-side variables as in equation (15).

**Sample and subsamples.** We consider employees between 25 and 65 years of age, resulting in a sample of 7,362 individuals for whom we observe all relevant variables. In this sample, 52% of individuals are female, while 48% are male.

Subsequently, we created a matched sample by restricting our analysis to women and men and with a common support of the gender-specific distributions of covariates (similar to, e.g, Perugini & Vladisavljević, 2019), with differences in means addressed using control variables. Specifically, we apply the nearest neighbor matching technique (Abadie et al., 2004), which matches men and women with comparable propensity scores conditional on observable covariates, for which we use occupation and industry group, income group, age group, educational level, job permanence, and working hours. After applying sample matching, 5,555 observations (constituting 75% of the original sample) have matches of the opposite sex and are included in the further analysis.<sup>12</sup> The final matched sample

 $<sup>^{12}</sup>$ At 25% unmatched observations, our matching result are not very different from Perugini and Vladis-avljević (2019). Of the unmatched observations, most could not be matched by occupation.

comprises 55.6% women and 44.4% men.

Three of the hypotheses derived from our theoretical model involve sample splits. For the first two of these splits, we use information readily available in the GSS: marital status and presence of children in the household. When splitting the sample by marital status, we include common-law partnerships in the married sample.<sup>13</sup>

We further split the sample based on men's and women's relative earnings within their respective household. While the GSS provides data on family income linked to respondents' tax returns, we lack information on the exact earnings of the partner. To create subgroups that differ in the respective frequencies of households where women are secondary earners, we proceed as follows. We create a first group that includes male respondents whose income is more than 50% of family income and female respondents whose income is less than 50% of family income. We label this group workers living in households with "traditional earner roles". Reversely, we collect male respondents whose income is less than 50% of family income and female respondents whose income is more than 50% of family income in a group we label workers living in households with "nontraditional earner roles". It is important to note that this distinction is strongly, yet not perfectly, related to respondents' roles as primary and secondary earners. This discrepancy arises because income includes both earned and unearned income, while earner roles are based on relative earnings alone. As a consequence, we very likely assign some male primary earners to the non-traditional group and some female primary earners to the traditional group, which lead to a bias in our results compared to the groups composed of genuine male and female primary earners. Due to this issue, we use alternative indicators for household earner roles in robustness checks.

<sup>&</sup>lt;sup>13</sup>Similar to previous studies, the analysis does not look at within-couple differences in job satisfaction as the job satisfaction responses are for one spouse. The gender comparison is across the sample of married individuals.

**Table 1:** Main sample descriptives (matched sample)

	Female		Male	
	mean	s.d.	mean	s.d.
Job satisfaction				
Satisfied or very satisfied with job	0.872	0.334	0.831	0.375
Neither satisfied nor dissatisfied	0.073	0.260	0.100	0.300
Dissatisfied or very dissatisfied	0.055	0.227	0.069	0.253
Annual income				
<Can $$50,000$	0.534	0.499	0.419	0.493
Can\$50,000-74,999	0.254	0.435	0.251	0.433
Can\$75,000-99,999	0.141	0.348	0.155	0.362
$\geq \mathrm{Can}\$100,\!000$	0.070	0.256	0.175	0.380
Further job characteristics				
Work benefits index	1.80	2.78	1.85	2.79
Work autonomy index	1.98	0.86	2.06	0.85
Work team environment index	2.55	1.29	2.61	1.31
Career advancement opportunities	0.50	0.50	0.54	0.50
Risk of job loss (1=Yes)	0.07	0.26	0.10	0.30
Sample split indicators				
Married or common-law partnership (clp)	0.691	0.462	0.717	0.450
Married or clp with children	0.456	0.498	0.471	0.499
Traditional earner roles	0.453	0.498	0.478	0.500
N	3,087		2,468	

Sample descriptives. Table 1 shows selected sample descriptives for the matched sample. The table shows that women are more likely to report being satisfied with a job compared to men. In contrast, men are more likely to be neutral or dissatisfied. This observation is striking given that men have higher incomes (i.e., more probability mass in the higher income categories) and more often report having jobs with characteristics such as work autonomy or team environments that are generally perceived as likable. Men also receive more benefits and and have greater career advancement opportunities, while being more often at the risk of losing their jobs. In summary, the descriptive findings support the notion of women reporting higher job satisfaction even though their jobs do not appear superior to those of men in various aspects.

The bottom part of the table shows the percentages of workers in the various subsamples that we will create for our sample splits. Approximately 70% of workers in our sample are married, and about two-thirds of those that are married have children. For every married worker in a non-traditional earner role, there are about two in a traditional earner role. Given the imperfect nature of using the latter indicator as a proxy for the primary earner's gender in a household, it is beneficial to compare the occurrence frequency of various roles in our data with the frequency of earner roles based on gender in the Canadian Income Survey (CIS). The CIS provides detailed earnings information for household members but does not include job satisfaction data. In the 2016 CIS, 72% of male married workers had earnings higher than their wives, while 63% of married female workers earned less than their husband. On average, these numbers are comparable to workers in traditional earner households in our dataset.

## 4 Empirical Results

Table 2 shows the gender gap in job satisfaction (conditional on controls) from estimating the empirical job satisfaction model (14), (15) on our full sample. Columns (1) to (4) exhibit variations in the selection of control variables used in the estimation, with Column (4) representing our preferred specification that includes the full set of control variables.<sup>14</sup> The table shows the estimates for the additional probability with which women report the highest job satisfaction category (satisfied or very satisfied), conditional on the controls. Standard errors are reported in parentheses, and stars indicate significance at the 5%, 1%, and 0.5% levels, respectively. As can be seen, the probability of a woman being satisfied or very satisfied with her job is approximately five percentage points higher compared to an observationally equivalent man with an observationally equivalent job.

<sup>&</sup>lt;sup>14</sup>Given that the literature identifies the prevalence of gender differences in industry/occupational choice, an empirical consideration is to explore whether the inclusion of industry and occupational controls could be masking the main effects being estimated for the gender analysis. We do this by estimating alternative models which omit industry and/or occupational controls. However, it is important to bear in mind that the exclusion of these controls could result in model misspecification. Therefore, the preferred

**Table 2:** The gender gap in job satisfaction

	Full sample						
	(1)	(2)	(3)	(4)			
Female	0.051*** (0.013)	0.051*** (0.013)	0.053*** (0.013)	0.051*** (0.013)			
Industry controls		<b>√</b>		✓			
Occupation controls			$\checkmark$	$\checkmark$			
Job and individual characteristics	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
$\overline{N}$	5,555	5,555	5,555	5,555			

Notes: Conditional gender gap in the probability of being satisfied or very satisfied with one's job. Marginal effects from ordered probit. Dependent variable = 1 if dissatisfied or very dissatisfied with job, 2 if neutral, 3 if satisfied or very satisfied. Matched sample based on nearest neighbor matching of male and female workers by income, work hours, contract type, firm size, education, industry and occupation groups. All specifications include inverse Mills ratio from sample selection correction model. Standard errors in parentheses. \*\*\*\* p<0.005, \*\*\* p<0.01, \*\* p<0.05. See Table A.2 in the Appendix for additional model output.

In our theoretical model, secondary earners in couples are more likely to exhibit greater job satisfaction than primary earners. Consequently, the model predicts that groups of individuals with a higher proportion of secondary earners will have higher job satisfaction compared to groups dominated by primary earners (H1). The empirical finding of higher job satisfaction among women aligns with this hypothesis when considering that, within our sample, most women are secondary earners in dual-earner households.

Marital status. Through the lens of our model, the gender gap in job satisfaction is the result of job choices in couple households while there is no gender gap in the job satisfaction of single workers (H2). To assess the validity of this model prediction, we perform a sample division into single workers and married workers. The outcomes of this analysis are summarized in Table 3, with Columns (1) to (4) presenting the conditional gender gap in job satisfaction for single workers, while Columns (5) to (8) illustrate the results for married workers.

In columns (1) to (4), the estimates, while positive, are small and statistically insignificant. In essence, this suggests that, among single workers, there is no discernible disparity in job satisfaction between men and women, in line with our theoretical model's predicmodel specification would incorporate all relevant control variables available in the data.

Table 3: Marital status and the gender gap in job satisfaction

	Single workers					Married workers				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
Female	0.017 (0.026)	0.019 (0.025)	0.016 (0.027)	0.014 (0.026)	0.063*** (0.016)	0.061*** (0.016)	0.067*** (0.016)	0.065*** (0.016)		
Industry controls		<b>√</b>		<b>√</b>		✓		<b>√</b>		
Occupation controls			$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$		
Job and individual characteristics	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	✓		
N	1,984	1,984	1,984	1,984	3,571	3,571	3,571	3,571		

Notes: Conditional gender gap in the probability of being satisfied or very satisfied with one's job. Marginal effects from ordered probit. Dependent variable = 1 if dissatisfied or very dissatisfied with job, 2 if neutral, 3 if satisfied or very satisfied. Married sample includes married individuals and common-law partners. Single sample is all else. Matched sample based on nearest neighbor matching of male and female workers by income, work hours, contract type, firm size, education, industry and occupation groups. All specifications include inverse Mills ratio from sample selection correction model. Standard errors in parentheses. \*\*\* p < 0.005, \*\* p < 0.05. See Table A.3 in the Appendix for additional model output.

tions. In contrast, there is evidence for significant gender differences in job satisfaction among married workers, which is also consistent with our model's predictions. Looking at our preferred specification shown in Column 8, we can see that, holding constant the characteristics of workers and jobs, the likelihood of being satisfied or very satisfied with one's job is approximately 6.5 percentage points higher for women than for men. Furthermore, this pattern persists across alternative model specifications, indicating that the probability of experiencing job satisfaction, or even high job satisfaction, is consistently over six percentage points greater among married women than their male counterparts.

Children. According to our theoretical model, the gender gap in job satisfaction should be stronger for couples who engage in cooperative joint decision-making, compared to couples that, while pooling their resources, maximize their individual utility functions; in other words, behave non-cooperatively (H3). We test these model predictions by splitting the sample of married workers into those without children and those with children living in the household. The presence of children serves as a proxy for the benefits of cooperation within the household (parameter  $\Psi$  in our theoretical model is supposed to be higher for parents reflecting their mutual interest in their children's well-being). In other words, we expect, through the lens of our model, a much more pronounced gender gap in job

Table 4: Children and the gender gap in job satisfaction

	Married without children				Married with children			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Female	0.033 (0.022)	0.035 (0.022)	0.039 (0.023)	0.039 (0.023)	0.088*** (0.022)	0.085*** (0.022)	0.093*** (0.023)	0.090*** (0.023)
Industry controls		<b>√</b>		<b>√</b>		✓		<b>√</b>
Occupation controls			$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$
Job and individual characteristics	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	✓
$\overline{N}$	1,522	1,522	1,522	1,522	2,049	2,049	2,049	2,049

Notes: Conditional gender gap in the probability of being satisfied or very satisfied with one's job. Marginal effects from ordered probit. Dependent variable = 1 if dissatisfied or very dissatisfied with job, 2 if neutral, 3 if satisfied or very satisfied. Workers with children sample is individuals with children in the household. No children sample is all else. Matched sample based on nearest neighbor matching of male and female workers by income, work hours, firm size, education, industry and occupation groups. All specifications include inverse Mills ratio from sample selection correction model. Standard errors in parentheses. \*\*\* p<0.005, \*\* p<0.01, \* p<0.05. See Table A.4 in the Appendix for additional model output.

satisfaction among married couples with children than among married couples without children.

Table 4 substantiates these model predictions through our estimation results. A direct comparison of our preferred econometric specification, as presented in Columns (4) and (8), reveals the following insights: For workers in couples without children, being female is associated with a 4 percentage point higher likelihood of job satisfaction. In contrast, for workers in couples with children, being female corresponds to a substantially stronger 9 percentage point increase in the probability of job satisfaction. Furthermore, among individuals in couples without children, not only do we observe a smaller gender gap, but it is also less significant statistically. Both quantitatively as well as with regard to statistical significance, comparing couples without children to parent couples yield similar insights across the various model specifications.

Earner roles. Viewed through the lens of our theoretical model, we expect a higher level of job satisfaction for the secondary earner within a household. This model prediction naturally translates into a gender gap in job satisfaction, primarily because, on average, women assume the role of the secondary earner in couples. However, we do not expect a significant job satisfaction gap between women and men when looking at couples in which

women serve as the primary earners within their households. To bring these predictions to the data, we partition our sample of married individuals into two distinct categories: couples with traditional earner roles, where most men are primary earners and most women are secondary earners, and those in which women contribute a larger share of household income, non-traditional earner couples. Although this is an imperfect test of our model's predictions given the imperfect relation between earner status and household type (see Section 3), we view the distinction between non-traditional and traditional earner couples as helpful in shedding light on the gender gap in job satisfaction among primary earners and among secondary earners. Under the model prediction, we should expect the gender gap to be substantially clearer in the traditional earner couples. The corresponding estimation results are presented in Table 5.

As we can see, the estimation results tend to support our model predictions. Within non-traditional earner couples, there is no discernible gender difference in job satisfaction, as demonstrated by the weak levels of significance of the female coefficients in Columns (1) to (4). In contrast, among traditional earner couples, significant gender differences in job satisfaction are evident.

However, it is worth noting that our data allows for constructing only a relatively imprecise measure of relative household income. As discussed previously, this measure is prone to overestimating (underestimating) the prevalence of non-traditional (traditional) earner couples. This implication suggests that our estimate of the gender gap in job satisfaction within our non-traditional earner sample is likely upward-biased. At the same time, it is downward-biased for the traditional earner sample.

In summary, our empirical investigations support our interpretation of the gender gap in job satisfaction as a result of cooperative utility-maximizing job choice decisions within

**Table 5:** Household earner roles and the gender gap in job satisfaction

	Married, non-traditional earners				Married, traditional earners			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Female	0.052 (0.031)	0.049 (0.032)	0.050 (0.031)	0.049 (0.032)	0.058*** (0.020)	0.054** (0.020)	0.055** (0.020)	0.054** (0.020)
Industry controls		✓		✓		✓		✓
Occupation controls			$\checkmark$	$\checkmark$			✓	$\checkmark$
Job and individual characteristics	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
N	1,150	1,150	1,150	1,150	2,140	2,140	2,140	2,140

Notes: Conditional gender gap in the probability of being satisfied or very satisfied with one's job. Marginal effects from ordered probit. Dependent variable = 1 if dissatisfied or very dissatisfied with job, 2 if neutral, 3 if satisfied or very satisfied. Non-traditional earner sample includes women (men) with greater than (less than) 50% share of household income. Traditional earners are whereby the husband earns a higher share of household income. Non-traditional earners are whereby the wife earns a higher share of household income. Matched sample based on nearest neighbor matching of male and female workers by income, work hours, contract type, firm size, education, industry and occupation groups. All specifications include inverse Mills ratio from sample selection correction model. Standard errors in parentheses. \*\*\*\* p < 0.005, \*\* p < 0.05. See Table A.5 in the Appendix for additional model output.

dual-earner couples, characterized by primary and secondary earners. Importantly, our analysis suggests there is no direct causal influence of gender on job satisfaction, contingent upon the roles individuals assume as earners within these couples.

Robustness checks. Given the imperfect nature of the income information used to differentiate between households with traditional earner roles and those with non-traditional roles, as previously discussed, we conduct various robustness checks by utilizing alternative proxies for household earner roles. The corresponding results are presented in Table 6.

First, we use information on the division of household chores as reported in the GSS. Specifically, the GSS asks for participation of both spouses in six categories of household chores. We classify a household as traditional if the wife is involved in more categories than the husband, and as non-traditional if the husband is engaged in at least as many categories as the wife. As shown in the first two columns of Table 6, the conditional gender gap in job satisfaction is more pronounced and statistically significant among members of traditional households, aligning with our hypotheses.

<sup>&</sup>lt;sup>15</sup>These are meal preparation and clean-up, general housework (such as cleaning, laundry), childcare activities at home, taking kids to activities, grocery shopping, and planning/organizing of the household's social activities.

**Table 6:** Alternative proxies for household earner roles

	Division of household chores		Educ differ		Education and occupation		
	Non-trad.	Trad.	Non-trad.	Trad.	Non-trad.	Trad.	
Female	0.047 (0.027)	0.069*** (0.020)	0.065 (0.036)	0.074*** (0.021)	0.058 (0.050)	0.102*** (0.031)	
Industry controls	✓	✓	✓	✓	✓	<b>√</b>	
Occupation controls	✓	✓	✓	✓	✓	$\checkmark$	
Job and individual characteristics	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	✓	✓	
N	1,035	2,536	1,226	1,937	1,194	1,969	

Notes: Conditional gender gap in the probability of being satisfied or very satisfied with one's job. Marginal effects from ordered probit. Dependent variable = 1 if dissatisfied or very dissatisfied with job, 2 if neutral, 3 if satisfied or very satisfied. Matched sample based on nearest neighbor matching of male and female workers by income, work hours, contract type, firm size, education, industry and occupation groups. All specifications include inverse Mills ratio from sample selection correction model. Standard errors in parentheses. \*\*\* p < 0.005, \*\* p < 0.01, \* p < 0.01, one Table A.6 in the Appendix for additional model output.

Subsequently, we use relative education as a proxy for household earner roles, considering education as a key determinant of individuals' earnings potentials. We classify a household as traditional if the husband possesses a superior or equivalent education to the wife. Conversely, households where the wife holds the higher education level are designated as non-traditional. In line with our hypotheses, we observe the job satisfaction gap between women and men to be larger and more significant in traditional households compared to non-traditional; see the third and fourth columns of Table 6.

For an alternative proxy reflecting household earner roles, we extend our consideration to occupation choices, acknowledging the gender-based selection into distinct fields of study and subsequent occupations with varying earnings profiles. Despite women's advancements in formal education, they remain underrepresented in high-paying professional occupations, such as banking or law. Leveraging the 2016 Canadian Labour Force Survey (LFS), which employs the National Occupation Classification (NOC) akin to the GSS, we identify high-paying occupations as those with average and median weekly earnings exceeding CAN\$1,000. Enhancing the education-based proxy, we now stipulate that for a household to be classified as non-traditional, a woman must have a higher education level than her husband and work in a high-paying occupation. A parallel criterion is applied

**Table 7:** Gender gap in non-pay job utility index

	Marita	al status	Child	Earner Roles		
	Single	Married	Married without children	Married with children	Non-trad.	Trad.
Female	0.071 0.261*** 0.241* (0.100) (0.068) (0.095)		0.298*** (0.092)	0.176 (0.123)	0.236** (0.092)	
Industry controls	✓	✓	✓	✓	✓	<b>√</b>
Occupation controls	$\checkmark$	✓	$\checkmark$	$\checkmark$	$\checkmark$	✓
Job and individual characteristics	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
R-squared	0.343	0.254	0.266	0.268	0.313	0.266
N	1,974	3,562	1,519	2,043	1,140	2,140

Notes: Coefficients from OLS estimation. Dependent variable is non-pay job utility index, constructed from four workers' reported contentment with their job in four non-pay dimensions (belonging, useful work, motivation, and work accomplishment) using first component of a principal component analysis. Matched sample based on nearest neighbor matching of male and female workers by income, work hours, contract type, firm size, education, industry and occupation groups. Married sample includes married individuals and common-law partners. Single sample is all else. Workers with children sample is individuals with children in the household. No children sample is all else. Traditional earners are whereby the husband earnes a higher share of household income. Non-traditional earners are whereby the wife earns a higher share of household income. Standard errors in parentheses. \*\*\* p < 0.01, \*\* < 0.05, \* p < 0.1. See Table A.7 in the Appendix for additional model output.

to men.

The last two columns in Table 6 demonstrate that this proxy based on education and occupation yields the most distinct pattern in the job satisfaction gap between men and women: it is nearly twice as large and substantially more significant in traditional households compared to non-traditional households.

In a final robustness exercise, we broaden our analysis by examining information on individuals' perspectives on the sense of meaningful work, accomplishment, motivation, and sense of belonging they receive from their job. We construct a measure of non-pay job utility as the first principal component of these four variables to estimate a job satisfaction index constructed from these alternative measures. The results of linear regressions with this index as the dependent variable are shown in Table 7. To streamline the presentation, we concentrate on our preferred specification, which incorporates all control variables.

The results derived from the non-pay job utility index as the dependent variable exhibit a broad alignment with our initial findings. Specifically, we observe that there are no discernible gender differences in the index among single workers (refer to the "Single" column), while there are such differences among married workers (refer to the "Married"

column).

Among married workers, we find evidence of gender differences in non-pay job utility for both workers with and without children. As in the main analysis, the female coefficient is, however, larger and more significant among workers with children. The analysis of household earner roles is also consistent with our initial findings. We find no significant gender differences in non-pay job utility among individuals from non-traditional earner households. Among traditional earners, we find that being female is associated with a significant and larger increase in the index.

#### 5 Conclusion

This paper has provided a novel theoretical explanation for the gender gap in job satisfaction that we develop in a model of collective household decision-making. Our model deviates from standard explanations as it does not rely on gender differences in preferences or expectations. Instead, it highlights the role of households in making job choices based on pay and non-pay characteristics. Our model features within-household heterogeneity in relative earnings potentials, identifying primary and secondary earners. We show that primary earners prioritize pay in their job choices, while secondary earners focus on non-pay job attributes. Consequently, secondary earners align their job choices more closely with their preferences, resulting in higher job satisfaction despite lower wages. In contrast, primary earners prioritize pay, leading to higher earnings but poorer alignment with their preferred non-pay characteristics. Since family members share income but not job utility, secondary earners experience higher job satisfaction. At the same time, this mechanism amplifies earnings differences between primary and secondary earners.

Given that most women are secondary earners, our model predicts that women tend

to report higher job satisfaction than men, even when earning less. This explanation hinges on the correlation between gender and earner status within families. As a result, we do not expect to observe a gender gap in single households or anticipate a substantial gender gap when women are the primary earners in households. The model's mechanism is particularly pronounced when families make cooperative decisions, leading to a less substantial gender gap in job satisfaction in non-cooperative households. Empirical testing of these model predictions using Canadian household data supports our explanation.

Our study provides a fresh perspective on the enduring gender gap in job satisfaction, aligning with the family view of gender disparities in the labor market that emphasizes the role of household decision-making in explaining labor market outcomes. This literature argues that gender disparities in the labor market cannot be solely attributed to differences in gender-based preferences, expectations, or societal norms. Our paper extends a similar argument to the gender gap in job satisfaction, a phenomenon conventionally attributed to gender differences in expectations and preferences, which are not considered in our model.

It is worth emphasizing that our findings do not exclude the possibility that societal norms, gender roles, stereotypes, or biases play a role in gender disparities in labor market outcomes. These elements may account for women predominantly assuming secondary earner roles within couples, which, in our model's terminology, relates to the within-household earnings heterogeneity factor  $\theta_i$ . However, our model illustrates how household decisions can magnify even minor discrepancies in earnings potentials within the family. For instance, if a family perceives lower earning potential for women due to discrimination, they face incentives to prioritize pay when selecting the husband's workplace and non-pay characteristics for the wife. As demonstrated, these choices explain

why women's job satisfaction exceeds men's. However, they also lead to more substantial earnings disparities within the household. Policymakers aiming to reduce gender-based earnings disparities could leverage the amplification mechanism. Implementing policy measures that enhance women's earning potential may induce families to prioritize pay more strongly in the household job choice decision for women.

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## Appendix

This appendix contains two sections. The first section presents additional material to the theoretical model. The second section provides a comprehensive description of the variables utilized in our analysis and presents additional findings from our estimations.

### A. Supplementary Material: Theoretical Model

Derivation of Equation (8). The log wage rate is additive in  $\log \alpha_i$ ,  $\log \theta_i$ , and  $\log \gamma_{i,j}$ . Hence, the average log wage gap between any two groups is given by the sum of the respective gaps in these three components. For the discrete components  $\log \theta_i$  and  $\log \gamma_{i,j}$ , the gap is given by the differences between the groups' shares of agents with the high realization multiplied by the difference between the high and low realization, where the latter is zero in log terms. Regarding  $\log \alpha_i$ , there is no gap between primary and secondary earners due to the assumption of perfect assortative mating. Regarding  $\log \theta_i$ , it is  $\log \alpha$  for all primary earners and zero for all secondary earners, so the gap is  $\log \theta$ . Regarding  $\log \gamma_{i,j}$ , it is  $\log \gamma$  for shares  $F(\overline{\eta})$  and  $F(\overline{\eta}/2)$  of primary earners in cooperative and non-cooperative couples, respectively, and zero for the inverse shares. Further,  $\log \gamma_{i,j}$  is  $\log \gamma$  for shares  $F(\underline{\eta})$  and  $F(\underline{\eta}/2)$  of secondary earners in cooperative and non-cooperative couples, respectively, and zero for the inverse shares. Applying the respective population shares, the primary-secondary earner gap is

$$\log \gamma \cdot \frac{1}{s_c + s_{nc}} \cdot \left[ s_c \left( F(\overline{\eta}) - F(\underline{\eta}) \right) + s_{nc} \left( F(\overline{\frac{\eta}{2}}) - F(\underline{\frac{\eta}{2}}) \right) \right].$$

Collecting terms gives (8).

**Proof of Proposition 1.** We consider the job satisfaction gap according to equation (12) in the three groups of households in our model.

First, for both types of couples, the integral in (12) is strictly non-negative as  $\eta > 0$ . The term in the square brackets might be negative, but only if the distribution of  $\eta$  has sufficient mass below  $\underline{\eta}_g$ . If the mass below  $\underline{\eta}_g$  is sufficiently small, the job satisfaction gap is positive in both groups of couples,  $\Delta_{\theta}(c)y_i > 0$ ,  $\Delta_{\theta}(nc)y_i > 0$ , establishing statement i. in the proposition.

Second, we compare the two groups of couples to each other. Note that the interval between  $\underline{\eta}_g$  and  $\overline{\eta}_g$  is smaller and further to the left for non-cooperative couples. Both aspects tend to make the integral smaller for non-cooperative couples. The only potential counteracting force would be if the distribution of  $\eta$  has a lot of mass between  $\underline{\eta}_{nc}$  and  $\underline{\eta}_c$ . Hence, the integral is larger for cooperative couples if sufficient mass is above  $\underline{\eta}_c$ . Further, the square brackets decrease in  $\underline{\eta}_g$  but increase in  $\overline{\eta}_g$  ( $\Delta \widetilde{\Omega}$  is bounded by one). Now suppose  $F(\eta_c) = 0$ , which implies  $F(\eta_{nc}) = 0$ , the square brackets simplify to  $1 + (1 - \Delta \widetilde{\Omega})F(\overline{\eta}_g)$ , which is larger for cooperative couples since  $\overline{\eta}_c > \overline{\eta}_{nc}$ . By continuity, the square brackets are larger for cooperative couples if  $F(\eta_c)$  is not too large. Hence, if this condition is met, the job satisfaction gap is larger in cooperative couples than it is in non-cooperative couples,  $\Delta_{\theta}(c)y_i > \Delta_{\theta}(nc)y_i$ , establishing statement ii. in the proposition.

Third, for singles,  $\tilde{\Omega}_i$  is 1 for every agent as singles contribute by construction 100% to their households' earnings. Thus,  $\Delta_{\theta}\tilde{\Omega}$  is zero in this group. Further, the threshold values for choosing good non-pay matches for  $\theta_i$ -high and  $\theta_i$ -low singles are the same,  $\underline{\eta}_s = \overline{\eta}_s$ . This implies that the integral in (12) disappears and the square brackets simplify to zero. As a result, (12) simplifies to  $\Delta_{\theta}(s)y_i = 0$ . This establishes statement iii. in the proposition.

# B. Supplementary Material: Empirical Analysis

Table A.1 provides a description of all variables used in the analysis. Tables A.2 through A.7 show additional results of the estimations referred to in 2 through 7 of the main text.

**Table A.1:** Description of variables used in the analysis.

<b>Dependent variable</b> Job satisfaction	Job satisfaction score based on the question "How satisfied are you with your current job". Likert type response on a scale from "1 – very dissatisfied or dissatisfied, 2 - neither satisfied nor dissatisfied, and 3 - satisfied or very satisfied".
Variables of interest	
Female	Gender dummy (Female $= 1$ , Male $= 0$ )
Married	Marital status of respondent (1=Married or Common-law partner, 0= Otherwise)
Has children	Whether respondent has any children in the household (1=Yes, 0= Otherwise)
Traditional earner	Whether respondent belongs to a traditional earner household (where husband has a greater share of household income than the wife (1=Traditional earner, 0= Non traditional earner)
Control variables	
Personal income	Annual person income before tax. Dummy variables created for these categories: Less than Can\$25,000; Can\$25,000 to Can\$49,999, Can\$50,000 to Can\$74,999, Can\$75,000 to Can\$99,999, Can\$100,000 to Can\$124,999, and Can\$125,000 or more.
Hours worked	Usual average weekly hours worked in job. Dummy variables for 0 to 15, 16 to 29, 30 to 40, and Above 40 hours).
Firm size	Number of employees in respondent's workplace. Dummy variables created for the categories: small firm(less than $100$ ), medium firm ( $100$ and $499$ ), and large firm (over $499$ )
Union member	Workers' union coverage (1=Union member, 0= Non-union member)
Work benefits	Principal Component Analysis (PCA) index on 8 variables capturing availability of work benefits, including workplace pension, paid sick leave, paid vacation, disability insurance, medical/dental coverage, workplace compensation, maternity benefits, and other benefits).
Work autonomy	PCA index based on 7 variables capturing if person has a manageable workload, can choose sequence of tasks, can quickly switch between tasks, is able to complete work during regular working hours, has periods of "down time" at work, has flexible deadlines, gets compensated for taking additional
Work team environment	work.  PCA index capturing the supportiveness of the work environment, being in a team that works well together, opportunity to provide input on decisions, recognition for work done, and getting support from management/supervisors.
Career opportunities	Respondent's assessment of prospects for career advancement at workplace (1=strongly agree or agree, 0=otherwise)
Formal training	Whether respondent had formal professional training paid for by your employer in the past 12 months (1=Yes, 0=No)
Skills match	Respondent's assessment of match between current job and field of education or training (1=Complete match or Mostly a match, 0=Otherwise)
Risk of job loss	Respondent's assessment of job loss risk in the next 6 month (1=strongly agree or agree, 0=otherwise).
Age	Age group of respondents. Dummy variables created for age groups: 25-34, 35-44, 45-54; 55-64.
Education	Highest level of education attained. Dummy variables created for the categories: Below high school education, High school diploma, Post-secondary Diploma/Certificate, University Degree)
Health status	Respondent's self-assessment of health status (1=excellent, very good, or good, 0=otherwise).
Immigrant status	Respondent's immigrant status (1=Immigrant, 0=Non-immigrant)
Occupation	Type of Occupation based on NOCS classification. 1. Management; 2. Business, finance, and administration; 3. Natural and applied sciences and natural resourced; 4. Health; 5. Education, Law, Social Sciences; 6. Sales and Service, Arts, Culture and Recreation (base case in model); 7. Trades, Utilities, Manufacturing, Transport and Equipment Operators.
Industry	Industry group based on NAICS classification. 1. Natural Resources and Utilities; 2. Trade, Accommodation and Food Services 3. Public Administration, Education, and Administrative Services; 4. Real estate, Business, Finance; 5. Scientific and Technical Services; 6. Information, Arts, and Recreation.
Province	Canadian province of residence. 1. Newfoundland; 2. Prince Edward Island; Nova Scotia; 4. New Brunswick; 5. Quebec; 6. Ontario (base case in model); 7. Manitoba; 8. Saskatchewan; 9. Alberta; 10. British Columbia.
Lambda	Inverse Mills Ratio based on the probability of being an employee.

## Table A.1: – continued.

Selection variables	
Children less than 10	Whether respondent has children less than 10 years old (1=Yes, 0= otherwise)
Religious	Whether respondent identifies as religious (Yes=1, 0=No)
Marital status	Dummy variables for marital status categories (married or common law partner, widowed, separated, or divorced).
Parents/in-laws	Whether respondent's parents, grandparents, and/or in-laws are present in household ( $1=$ Yes, $0=$ otherwise)
Education of spouse	Highest level of education attained. Dummy variables created for the categories: Below high school education, High school diploma, Post-secondary Diploma/Certificate, University Degree.
Visible minority status	Whether respondent identifies as a visible minority (Yes=1, 0=No)
Family income	Annual family income before tax. Dummy variables created for these categories: Less than Can\$25,000; Can\$25,000 to Can\$49,999, Can\$50,000 to Can\$74,999, Can\$75,000 to Can\$99,999, Can\$100,000 to Can\$124,999, and Can\$125,000 or more.

Table A.2: The gender gap in job satisfaction, additional results

	<u> </u>	Full s	ample	
	(1)	(2)	(3)	(4)
Female	0.051***	0.051***	0.053***	0.051***
	(0.013)	(0.013)	(0.013)	(0.013)
Married	0.028	0.028*	0.029**	0.029**
TT 1:11	(0.015)	(0.015)	(0.015)	(0.015)
Has children	-0.005 (0.014)	-0.007 (0.014)	-0.006 (0.014)	-0.007 $(0.014)$
Personal inc. Can\$25,000-49,999	$(0.014) \\ 0.020$	$(0.014) \\ 0.015$	$(0.014) \\ 0.018$	0.014) $0.015$
1 cisonar me. Can 20,000-40,000	(0.020)	(0.020)	(0.020)	(0.020)
Personal inc. Can\$50,000-74,999	0.039	$0.037^{'}$	$0.037^{'}$	0.037
	(0.023)	(0.023)	(0.024)	(0.024)
Personal inc. Can\$75,000-99,999	0.071*	0.066*	0.067*	0.066*
D 1: C \$100,000,104,000	(0.028)	(0.028)	(0.028)	(0.028)
Personal inc. Can\$100,000-124,999	0.064 $(0.034)$	0.059 $(0.034)$	0.064 $(0.035)$	0.061 $(0.035)$
Personal inc. Can\$125,000 or more	0.087*	0.087**	0.086*	0.088*
resonarme. Campizo,000 or more	(0.035)	(0.034)	(0.035)	(0.034)
16 to 29 weekly hours	0.010	0.006	0.012	0.008
-	(0.059)	(0.058)	(0.058)	(0.058)
30 to 40 weekly hours	-0.013	-0.026	-0.019	-0.026
	(0.056)	(0.054)	(0.055)	(0.054)
more than 40 weekly hours	0.022	0.009	0.015	0.008
Medium firm	(0.058) -0.034*	(0.057) -0.036*	(0.057) -0.033*	(0.057) -0.035*
Wedium mm	(0.016)	(0.016)	(0.016)	(0.016)
Large firm	-0.032*	-0.036*	-0.032*	-0.035*
	(0.015)	(0.015)	(0.015)	(0.015)
Union member	-0.025*	-0.050**	-0.036**	-0.052***
*** 1.1	(0.012)	(0.014)	(0.013)	(0.015)
Work benefits index	0.006**	0.006**	0.006**	0.006**
Work autonomy index	(0.002) $0.027***$	(0.002) $0.027***$	(0.002) $0.027***$	(0.002) $0.027***$
work autonomy index	(0.007)	(0.006)	(0.007)	(0.027)
Work team environment index	0.048***	0.048***	0.048***	0.048***
	(0.004)	(0.004)	(0.004)	(0.004)
Career opportunities	0.087***	0.090***	0.089***	0.090***
	(0.014)	(0.014)	(0.014)	(0.014)
Formal training	0.021*	0.018	0.019	0.017
Chille metab	(0.012) $0.048***$	(0.012)	(0.012) $0.041***$	(0.012) 0.040***
Skills match	$(0.048^{+1.4})$	0.043*** (0.014)	$(0.041^{3.33})$	(0.015)
Risk of job loss	-0.080***	-0.084***	-0.082***	-0.084***
. <b>.</b>	(0.016)	(0.016)	(0.016)	(0.016)
35-44 years of age	0.017	0.019	0.020	0.019
	(0.017)	(0.017)	(0.017)	(0.017)
45-54 years of age	0.024	0.023	0.025	0.023
EE 64 many of any	(0.017)	(0.017)	(0.017)	(0.017)
55-64 years of age	0.024 $(0.027)$	0.020	0.026	0.022
High school	0.027 $0.022$	$(0.026) \\ 0.021$	$(0.027) \\ 0.020$	(0.026) $0.020$
	(0.051)	(0.050)	(0.050)	(0.049)
Post secondary	0.005	0.001	-0.002	-0.002
•	(0.050)	(0.049)	(0.048)	(0.048)
University	0.003	-0.004	-0.006	-0.008
TT 1/1	(0.052)	(0.052)	(0.051)	(0.051)
Health	0.012	0.014	0.015	0.015
Immigrant	$(0.018) \\ 0.003$	(0.018)	(0.017)	(0.017) $0.006$
Immigrant	(0.016)	0.005 $(0.016)$	0.004 $(0.015)$	(0.006)
	(0.010)		(0.010)	
Industry controls		$\checkmark$	/	<b>√</b>
Occupation controls			✓	<b>√</b>
N	5,555	5,555	5,555	5,555

Notes: Marginal effects on the probability of being satisfied or very satisfied with one's job from ordered probit. Dependent variable = 1 if dissatisfied or very dissatisfied with job, 2 if neutral, 3 if satisfied or very satisfied. Matched sample based on nearest neighbor matching of male and female workers by income, work hours, contract type, firm size, education, industry and occupation groups. All specifications include inverse Mills ratio from sample selection correction model and province dummies. Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1.

Table A.3: Marital status and the gender gap in job satisfaction, additional results

		Single	workers			Married	workers	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Female	0.017	0.019	0.016	0.014	0.063***	0.061***	0.067***	0.065***
	(0.026)	(0.025)	(0.027)	(0.026)	(0.016)	(0.016)	(0.016)	(0.016)
Has children	0.041	0.032	0.038	0.031	-0.012	-0.012	-0.012	-0.012
	(0.031)	(0.030)	(0.031)	(0.031)	(0.015)	(0.015)	(0.015)	(0.015)
Personal inc. Can\$25,000-49,999	0.025	0.022	0.025	0.020	0.014	0.008	0.006	0.005
	(0.036)	(0.036)	(0.036)	(0.035)	(0.026)	(0.026)	(0.026)	(0.026)
Personal inc. Can\$50,000-74,999	0.037	0.041	0.040	0.043	0.029	0.024	0.020	0.019
	(0.048)	(0.049)	(0.048)	(0.049)	(0.029)	(0.029)	(0.029)	(0.029)
Personal inc. Can\$75,000-99,999	0.071	0.068	0.080	0.075	0.058	0.052	0.046	0.045
D 1. G 4100 000 101 000	(0.058)	(0.058)	(0.058)	(0.058)	(0.032)	(0.032)	(0.033)	(0.033)
ersonal inc. Can\$100,000-124,999	0.125	0.128	0.130	0.129	0.043	0.037	0.037	0.036
D 1: C #107.000	(0.089)	(0.090)	(0.090)	(0.090)	(0.038)	(0.038)	(0.039)	(0.040)
Personal inc. Can\$125,000 or more	0.094	0.096	0.095	0.095	0.070	0.069	0.063	0.066
16 4 90 11 1	(0.075)	(0.074)	(0.074)	(0.073)	(0.039)	(0.038)	(0.039)	(0.039)
16 to 29 weekly hours	0.091	0.079	0.090	0.077	-0.021	-0.019	-0.012	-0.012
20 to 40 models hours	(0.112)	(0.109)	(0.112)	(0.110)	(0.049)	(0.047)	(0.046)	(0.045)
30 to 40 weekly hours	0.028 $(0.102)$	0.008	(0.102)	(0.101)	-0.023	-0.029 (0.042)	-0.019	-0.023
more than 40 weekly hours	0.050	$(0.099) \\ 0.030$	$(0.103) \\ 0.042$	$(0.101) \\ 0.033$	$(0.044) \\ 0.018$	$(0.042) \\ 0.011$	(0.042) $0.019$	$(0.042) \\ 0.016$
more than 40 weekly hours	(0.110)	(0.108)	(0.111)	(0.109)	(0.048)	(0.046)	(0.045)	(0.045)
Medium firm	-0.058	-0.061	-0.056	-0.061	-0.021	-0.023	-0.021	-0.022
Medium min	(0.031)	(0.031)	(0.032)	(0.032)	(0.018)	(0.019)	(0.018)	(0.018)
Large firm	0.031) $0.017$	0.031) $0.014$	0.032)	0.032)	-0.041*	-0.046**	-0.043*	-0.046**
Large IIIII	(0.030)	(0.030)	(0.030)	(0.030)	(0.018)	(0.018)	(0.018)	(0.018)
Jnion member	-0.027	-0.061*	-0.033	-0.060*	-0.025	-0.044**	-0.038**	-0.049***
Chion member	(0.025)	(0.028)	(0.027)	(0.029)	(0.014)	(0.016)	(0.015)	(0.016)
Work benefits index	0.006	0.006	0.005	0.006	0.006*	0.006*	0.006*	0.006*
Work belieffed frider	(0.005)	(0.005)	(0.005)	(0.005)	(0.002)	(0.002)	(0.002)	(0.002)
Work autonomy index	0.034***	0.035***	0.034***	0.037***	0.027***	0.027***	0.028***	0.028***
vvoin autonomy maon	(0.012)	(0.011)	(0.012)	(0.012)	(0.008)	(0.008)	(0.008)	(0.008)
Work team environment index	0.049***	0.051***	0.050***	0.050***	0.047***	0.047***	0.047***	0.047***
	(0.009)	(0.009)	(0.009)	(0.009)	(0.005)	(0.005)	(0.005)	(0.005)
Career opportunities	0.105***	0.102***	0.106***	0.100***	0.082***	0.086***	0.085***	0.086***
rr	(0.027)	(0.026)	(0.026)	(0.026)	(0.016)	(0.016)	(0.016)	(0.016)
Formal training	$0.021^{'}$	0.020	$0.021^{'}$	0.019	0.020	0.016	0.016	0.014
9	(0.024)	(0.023)	(0.024)	(0.024)	(0.015)	(0.015)	(0.015)	(0.015)
Skills match	0.088***	0.081***	0.089***	0.088***	0.026	0.023	$0.017^{'}$	$0.017^{'}$
	(0.026)	(0.027)	(0.027)	(0.028)	(0.018)	(0.018)	(0.018)	(0.018)
Risk of job loss	-0.083**	-0.091***	-0.083**	-0.088***	-0.078* <sup>*</sup> *	-0.081***	-0.080* <sup>*</sup> *	-0.082***
v	(0.032)	(0.032)	(0.032)	(0.032)	(0.020)	(0.020)	(0.020)	(0.020)
35-44 years of age	-0.015	-0.017	-0.015	-0.020	0.032	0.034*	0.036*	0.036*
	(0.032)	(0.033)	(0.032)	(0.032)	(0.020)	(0.020)	(0.020)	(0.020)
45-54 years of age	0.033	0.030	0.033	0.029	0.025	0.026	0.028	0.027
	(0.038)	(0.038)	(0.039)	(0.039)	(0.020)	(0.020)	(0.020)	(0.020)
55-64 years of age	0.043	0.042	0.042	0.036	0.035	0.032	0.038	0.035
	(0.056)	(0.055)	(0.056)	(0.056)	(0.030)	(0.030)	(0.031)	(0.031)
High school	-0.043	-0.054	-0.044	-0.056	0.051	0.051	0.048	0.049
	(0.087)	(0.083)	(0.087)	(0.084)	(0.062)	(0.059)	(0.060)	(0.058)
Post secondary	-0.093	-0.107	-0.093	-0.102	0.044	0.041	0.035	0.035
	(0.084)	(0.080)	(0.084)	(0.081)	(0.062)	(0.059)	(0.060)	(0.059)
University	-0.093	-0.106	-0.090	-0.102	0.048	0.040	0.031	0.030
	(0.086)	(0.083)	(0.087)	(0.084)	(0.065)	(0.064)	(0.063)	(0.062)
Health	0.024	0.033	0.026	0.033	0.005	0.004	0.007	0.006
_	(0.033)	(0.032)	(0.032)	(0.032)	(0.023)	(0.024)	(0.023)	(0.023)
Immigrant	0.033	0.039	0.032	0.039	-0.006	-0.003	-0.002	-0.001
	(0.030)	(0.030)	(0.030)	(0.030)	(0.018)	(0.019)	(0.018)	(0.018)
Industry controls		<b>√</b>		<b>√</b>		<b>√</b>		✓
Occupation controls		•	✓	<b>√</b>		•	✓	<b>√</b>
				•				•
N	1,984	1,984	1,984	1,984	3,571	3,571	3,571	3,571

Notes: Marginal effects on the probability of being satisfied or very satisfied with one's job from ordered probit. Dependent variable = 1 if dissatisfied or very dissatisfied with job, 2 if neutral, 3 if satisfied or very satisfied. Married sample includes married individuals and common-law partners. Single sample is all else. Matched sample based on nearest neighbor matching of male and female workers by income, work hours, contract type, firm size, education, industry and occupation groups. All specifications include inverse Mills ratio from sample selection correction model and province dummies. Standard errors in parentheses. \*\*\* p < 0.005, \*\* p < 0.01, \* p < 0.05.

Table A.4: Children and the gender gap in job satisfaction, additional results

	$\mathbf{M}$	arried wit	hout child:	en		Married w	ith children	1
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Female	0.033	0.035	0.039	0.039	0.088***	0.085***	0.093***	0.090***
	(0.022)	(0.022)	(0.023)	(0.023)	(0.022)	(0.022)	(0.023)	(0.023)
Personal inc. Can\$25,000-49,999	-0.009	-0.009	-0.013	-0.009	0.016	0.010	0.010	0.007
	(0.044)	(0.043)	(0.042)	(0.043)	(0.032)	(0.033)	(0.034)	(0.034)
Personal inc. Can\$50,000-74,999	-0.013	-0.013	-0.017	-0.014	0.045	0.041	0.038	0.037
D 1. C 4=== 000 00 000	(0.050)	(0.049)	(0.049)	(0.048)	(0.036)	(0.036)	(0.037)	(0.037)
Personal inc. Can\$75,000-99,999	0.006	-0.004	-0.004	-0.005	0.087*	0.083	0.079	0.078*
	(0.055)	(0.054)	(0.055)	(0.055)	(0.041)	(0.042)	(0.043)	(0.044)
Personal inc. Can\$100,000-124,999	0.069	0.064	0.057	0.062	0.049	0.049	0.049	0.051
D 1: C 0107 000	(0.061)	(0.061)	(0.063)	(0.064)	(0.047)	(0.049)	(0.050)	(0.051)
Personal inc. Can\$125,000 or more	0.058	0.066	0.052	0.063	0.076	0.075	0.073	0.075
10 - 20 11 1	(0.060)	(0.059)	(0.061)	(0.061)	(0.050)	(0.049)	(0.051)	(0.051)
16 to 29 weekly hours	-0.024	-0.010	0.011	0.015	0.031	0.032	0.032	0.033
20 - 40 11 1	(0.057)	(0.054)	(0.062)	(0.059)	(0.068)	(0.065)	(0.064)	(0.064)
30 to 40 weekly hours	-0.057	-0.047	-0.028	-0.025	0.036	0.026	0.031	0.029
41 40 11 1	(0.054)	(0.054)	(0.061)	(0.059)	(0.058)	(0.053)	(0.054)	(0.052)
more than 40 weekly hours	-0.060	-0.050	-0.033	-0.033	0.110*	0.099	0.104	0.104
M II C	(0.063)	(0.064)	(0.067)	(0.066)	(0.064)	(0.059)	(0.060)	(0.058)
Medium firm	0.014	0.013	0.013	0.012	-0.029	-0.030	-0.029	-0.030
T C	(0.027)	(0.028)	(0.027)	(0.028)	(0.024)	(0.024)	(0.024)	(0.024)
Large firm	-0.016	-0.017	-0.016	-0.016	-0.051*	-0.060*	-0.054*	-0.061**
Union member	(0.028)	(0.027)	(0.029)	(0.029)	(0.023)	(0.023)	(0.023)	(0.023)
	0.026	0.009	0.011	0.002	-0.045**	-0.065***	-0.058***	-0.070***
Work benefits index	(0.022)	(0.024)	(0.022)	(0.024)	(0.017)	(0.020)	(0.019)	(0.021)
	0.006	0.006	0.006	0.007	0.007*	0.006	0.007*	0.007*
Work autonomy index	(0.004)	(0.004)	(0.004)	(0.004)	(0.003)	(0.003)	(0.003)	(0.003)
	0.029*	0.032**	0.030*	0.033**	0.028**	0.028**	0.028**	0.028**
337 1	(0.013)	(0.012)	(0.013)	(0.013)	(0.010)	(0.010)	(0.010)	(0.010)
Work team environment index	0.053***	0.052***	0.054***	0.052***	0.043***	0.044***	0.043***	0.043***
Q	(0.009)	(0.009)	(0.009)	(0.009)	(0.005)	(0.006)	(0.006)	(0.006)
Career opportunities	0.101***	0.104***	0.102***	0.103***	0.076***	0.080***	0.080***	0.081***
D 14	(0.026)	(0.026)	(0.026)	(0.027)	(0.018)	(0.018)	(0.018)	(0.018)
Formal training	0.039	0.042	0.037	0.042	0.010	0.002	0.006	0.003
C1 :11 4 1	(0.021)	(0.022)	(0.022)	(0.022)	(0.018)	(0.018)	(0.018)	(0.018)
Skills match	0.034	(0.022	0.023	0.019	0.019	0.020	0.011	0.014
D. 1 (. 1 1	(0.026)	(0.026)	(0.026)	(0.025)	(0.024)	(0.024)	(0.024)	(0.025)
Risk of job loss	-0.040	-0.049	-0.042	-0.049	-0.094***	-0.096***	-0.098***	-0.097***
OF 44 C	(0.033)	(0.033)	(0.033)	(0.033)	(0.024)	(0.025)	(0.025)	(0.025)
35-44 years of age	0.003	0.003	0.007	0.004	0.026	0.032	0.033	0.034
45 54	(0.034)	(0.034)	(0.035)	(0.035)	(0.024)	(0.024)	(0.024)	(0.024)
45-54 years of age	0.029	0.018	0.027	0.016	0.007	0.011	0.013	0.012
TT 04	(0.031)	(0.031)	(0.032)	(0.032)	(0.024)	(0.025)	(0.025)	(0.025)
55-64 years of age	0.032	0.024	0.028	0.019	0.018	0.018	0.027	0.023
III ale cale a d	(0.045)	(0.047)	(0.047)	(0.048)	(0.041)	(0.041)	(0.042)	(0.041)
High school	-0.060	-0.059	-0.062	-0.061	0.101	0.103	0.099	0.100
D ( 1	(0.060)	(0.062)	(0.063)	(0.064)	(0.086)	(0.084)	(0.084)	(0.083)
Post secondary	-0.081	-0.094	-0.091	-0.098	0.104	0.105	0.094	0.096
TT • • •	(0.054)	(0.056)	(0.056)	(0.058)	(0.085)	(0.083)	(0.082)	(0.082)
University	-0.109	-0.129*	-0.131*	-0.139*	0.117	0.114	0.104	0.105
II 141.	(0.057)	(0.061)	(0.061)	(0.063)	(0.088)	(0.086)	(0.086)	(0.086)
Health	0.057	0.058	0.061	0.060	-0.027	-0.027	-0.026	-0.027
T	(0.035)	(0.036)	(0.036)	(0.037)	(0.029)	(0.030)	(0.030)	(0.030)
Immigrant	-0.022 $(0.028)$	-0.021 $(0.027)$	-0.018 $(0.028)$	-0.018 $(0.028)$	0.015 $(0.024)$	0.018 $(0.025)$	0.016 $(0.025)$	0.018 $(0.025)$
	(0.020)		(0.020)		(0.024)		(0.020)	
Industry controls Occupation controls		$\checkmark$	✓	<b>√</b> ✓		$\checkmark$	$\checkmark$	<b>√</b> ✓
					0.515	0.010		
N	1,522	1,522	1,522	1,522	2,049	2,049	2,049	2,049

Notes: Marginal effects on the probability of being satisfied or very satisfied with one's job from ordered probit. Dependent variable = 1 if dissatisfied or very dissatisfied with job, 2 if neutral, 3 if satisfied or very satisfied. Workers with children sample is individuals with children in the household. No children sample is all else. Matched sample based on nearest neighbor matching of male and female workers by income, work hours, firm size, education, industry and occupation groups. All specifications include inverse Mills ratio from sample selection correction model and province dummies. Standard errors in parentheses. \*\*\* p < 0.005, \*\* p < 0.01, \* p < 0.05.

Table A.5: Household earner roles and the gender gap in job satisfaction, additional results

	Marr	ied, non-tr	aditional ea	rners	Ma	arried, trad	itional earı	ners
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Female	0.052	0.049	0.050	0.049	0.058***	0.054**	0.055**	0.054**
II dellam	(0.031)	(0.032)	(0.031)	(0.032)	(0.020)	(0.020)	(0.020)	(0.020)
Has children	-0.015 $(0.027)$	-0.019 $(0.027)$	-0.018 $(0.027)$	-0.019 (0.027)	-0.028 $(0.023)$	-0.026 $(0.023)$	-0.027 $(0.023)$	-0.026 $(0.023)$
Personal inc. Can\$25,000-49,999	-0.003	(0.027) -0.015	-0.01	-0.015	0.023) $0.002$	0.023)	-0.002	0.023
reisonal mc. Can\$25,000-49,999	(0.044)	(0.043)	(0.042)	(0.043)	(0.002)	(0.030)	(0.029)	(0.030)
Personal inc. Can\$50,000-74,999	0.028	0.013	0.02	0.013	-0.016	-0.018	-0.02	-0.018
1 orsonar me. Campoo,ooo 1 1,000	(0.048)	(0.047)	(0.047)	(0.047)	(0.033)	(0.034)	(0.033)	(0.034)
Personal inc. Can\$75,000-99,999	0.057	0.037	0.045	0.037	0.034	0.025	0.025	0.025
	(0.053)	(0.052)	(0.054)	(0.052)	(0.030)	(0.031)	(0.030)	(0.031)
Personal inc. Can\$100,000-124,999	$0.057^{'}$	$0.064^{'}$	0.051	$0.061^{'}$	$0.076^{'}$	$0.074^{'}$	$0.072^{'}$	0.075
	(0.060)	(0.059)	(0.061)	(0.061)	(0.050)	(0.049)	(0.051)	(0.051)
Personal inc. Can\$125,000 or more	[0.071]	0.061	0.068	[0.061]	0.07	[0.065]	0.06	0.065
	(0.092)	(0.092)	(0.090)	(0.092)	(0.043)	(0.044)	(0.044)	(0.044)
16 to 29 weekly hours	0.02	0.028	0.033	0.028	-0.009	-0.003	-0.004	-0.003
	(0.058)	(0.062)	(0.061)	(0.062)	(0.035)	(0.035)	(0.035)	(0.035)
30 to 40 weekly hours	-0.013	0.000	0.012	0.000	0.014	0.012	0.013	0.012
	(0.030)	(0.031)	(0.031)	(0.031)	(0.020)	(0.022)	(0.021)	(0.022)
more than 40 weekly hours	-0.013	0.000	0.012	0.000	0.014	0.012	0.013	0.012
	(0.030)	(0.031)	(0.031)	(0.031)	(0.020)	(0.022)	(0.021)	(0.022)
Medium firm	-0.029	-0.013	-0.021	-0.013	-0.006	-0.008	-0.007	-0.008
T C	(0.035)	(0.034)	(0.034)	(0.034)	(0.021)	(0.022)	(0.022)	(0.022)
Large firm	-0.081**	-0.072**	-0.076**	-0.072**	-0.025	-0.029	-0.031	-0.029
Union mombor	(0.035)	(0.034)	(0.034)	(0.034)	(0.022) -0.043**	(0.022) -0.056***	(0.022)	(0.022) -0.056***
Union member	0.002 $(0.030)$	-0.038	-0.026 $(0.032)$	-0.038 $(0.034)$			-0.050*** (0.010)	
Vork benefits index	0.003	$(0.034) \\ 0.003$	0.003	0.003	$(0.018) \\ 0.006$	$(0.021) \\ 0.006*$	(0.019) 0.006*	(0.021) $0.006$
	(0.005)	(0.005)	(0.005)	(0.005)	(0.003)	(0.003)	(0.003)	(0.003)
Work autonomy index	0.054***	0.053***	0.053***	0.053***	0.014	0.014	0.015	0.014
work autonomy maex	(0.015)	(0.015)	(0.014)	(0.015)	(0.014)	(0.014)	(0.010)	(0.014)
Work team environment index	0.034***	0.034***	0.036***	0.034***	0.053***	0.053***	0.053***	0.053***
West com our mountain mach	(0.009)	(0.009)	(0.009)	(0.009)	(0.007)	(0.007)	(0.007)	(0.007)
Career opportunities	0.118***	0.120***	0.123***	0.120***	0.065***	0.067***	0.066***	0.067***
PP	(0.032)	(0.033)	(0.032)	(0.033)	(0.020)	(0.020)	(0.020)	(0.020)
Formal training	$0.053^{'}$	0.052*	0.049	$0.052^{'}$	0.013	0.01	0.01	0.01
<u> </u>	(0.028)	(0.028)	(0.027)	(0.028)	(0.018)	(0.018)	(0.018)	(0.018)
Skills match	$0.062^{'}$	0.048	0.048	0.048	0.01	0.002	0.001	0.002
	(0.037)	(0.037)	(0.036)	(0.037)	(0.021)	(0.021)	(0.021)	(0.021)
Risk of job loss	-0.096***	-0.098***	-0.090***	-0.098***	-0.071**	-0.070**	-0.070**	-0.070**
	(0.033)	(0.035)	(0.034)	(0.035)	(0.030)	(0.031)	(0.030)	(0.031)
35-44 years of age	0.062	0.046	0.051	0.046	0.008	0.008	0.009	0.008
	(0.043)	(0.042)	(0.041)	(0.042)	(0.030)	(0.031)	(0.030)	(0.031)
45-54 years of age	0.055	0.037	0.042	0.037	-0.008	-0.009	-0.008	-0.009
~~ 0.4	(0.048)	(0.046)	(0.045)	(0.046)	(0.031)	(0.032)	(0.031)	(0.032)
55-64 years of age	0.073*	0.043	0.056	0.043	0.032	0.034	0.035	0.034
1.1.1.1	(0.043)	(0.042)	(0.041)	(0.042)	(0.028)	(0.030)	(0.029)	(0.030)
high school	-0.152**	-0.151**	-0.164**	-0.151**	0.097	0.091	0.094	0.091
most seem down	(0.075)	(0.074)	(0.074) $-0.120*$	(0.074)	(0.075)	(0.073)	(0.074)	(0.073)
post secondary	-0.108 $(0.071)$	-0.109 $(0.072)$	(0.071)	-0.109 $(0.072)$	0.082 $(0.078)$	0.067 $(0.075)$	0.071 $(0.075)$	0.067 $(0.075)$
university	(0.071) -0.167**	-0.185**	-0.191**	-0.185**	0.106	0.075	0.073	0.075
university	(0.075)	(0.076)	(0.075)	(0.076)	(0.083)	(0.079)	(0.080)	(0.079)
Health	0.017	0.018	0.021	0.018	0.003)	0.013	0.012	0.013
<del>-</del>	(0.044)	(0.044)	(0.043)	(0.044)	(0.027)	(0.029)	(0.028)	(0.029)
Immigrant	-0.001	0.012	0.004	0.012	-0.031	-0.026	-0.026	-0.026
<b>9</b> ** *	(0.033)	(0.032)	(0.032)	(0.032)	(0.025)	(0.025)	(0.025)	(0.025)
Industry controls Occupation controls		✓	<b>√</b>	<b>√</b>		✓	<b>√</b>	√ √
	1.150	1 1 50			0.140	0.140		
N	1,150	$1,\!150$	$1,\!150$	1,150	2,140	2,140	2,140	2,140

Notes: Marginal effects on the probability of being satisfied or very satisfied with one's job from ordered probit. Dependent variable = 1 if dissatisfied or very dissatisfied with job, 2 if neutral, 3 if satisfied or very satisfied. Non-traditional earner sample includes women (men) with greater than (less than) 50% share of household income. Traditional earners are whereby the husband earns a higher share of household income. Non-traditional earners are whereby the wife earns a higher share of household income. Matched sample based on nearest neighbor matching of male and female workers by income, work hours, contract type, firm size, education, industry and occupation groups. All specifications include inverse Mills ratio from sample selection correction model and province dummies. Standard errors in parentheses. \*\*\*\* p < 0.005, \*\* p < 0.01, \* p < 0.05.

Table A.6: Alternative proxies for household earner roles, additional results

	Division of household chores		Education differences		Education and occupation	
	Non-trad.	Trad.	Non-trad.	Trad.	Non-trad.	Trad.
Female	0.047	0.069***	0.065	0.074***	0.058	0.102***
	(0.027)	(0.020)	(0.036)	(0.021)	(0.050)	(0.031)
Has children	-0.001	-0.017	-0.026	-0.008	-0.033	0.007
	(0.027)	(0.020)	(0.028)	(0.019)	(0.028)	(0.019)
Personal inc. Can\$25,000-49,999 Personal inc. Can\$50,000-74,999	0.033	-0.003	-0.039	-0.004	-0.028	-0.016
	(0.055)	(0.031)	(0.049)	(0.035)	(0.060)	(0.030)
	0.059	0.005	0.005	0.017	0.035	-0.003
Personal inc. Can\$75,000-99,999	(0.056)	(0.036)	(0.052)	(0.039)	(0.064)	(0.034)
	0.112	0.020	0.039	0.041	0.093	0.007
Personal inc. Can\$100,000-124,999	(0.067)	(0.041)	(0.063)	(0.047)	(0.077)	(0.041)
	0.072	0.024	-0.001	0.032	0.037	0.009
D 11 G 410 000	(0.075)	(0.048)	(0.084)	(0.056)	(0.089)	(0.053)
Personal inc. Can\$125,000 or more	0.063	0.064	0.084	0.033	0.066	0.027
16 to 29 weekly hours	(0.132)	(0.045)	(0.100)	(0.053)	(0.088)	(0.044)
	0.036	-0.044	0.071	-0.059	-	-
30 to 40 weekly hours	(0.082)	(0.054)	(0.108)	(0.056)	- 0.010	0.004
	0.006	-0.033	0.017	-0.021	-0.010	0.004
	(0.065)	(0.049)	(0.106)	(0.053)	(0.064)	(0.038)
more than 40 weekly hours	0.039	0.013	0.027	0.026	0.044	0.018
Medium firm	(0.074)	(0.053)	(0.111)	(0.057)	(0.069)	(0.048)
	-0.073*	0.004	-0.047	-0.005	-0.065	0.005
Large firm	(0.034) -0.103***	(0.022)	(0.033)	(0.022)	(0.034)	(0.021)
		-0.022	-0.072*	-0.035	-0.080*	-0.039
II.:	(0.036)	(0.022) -0.052*	(0.037)	(0.024)	(0.035)	(0.025)
Union member	-0.046		-0.038	-0.052*	-0.062	-0.026
Work benefits index Work autonomy index	(0.035)	(0.020) $0.009***$	(0.030)	(0.022)	(0.033)	(0.022)
	0.001		0.007	0.005	0.006	0.006
	$(0.005) \\ 0.037*$	$(0.003) \\ 0.023*$	$(0.004) \\ 0.043**$	$(0.003) \\ 0.017$	$(0.005) \\ 0.037*$	$(0.003) \\ 0.018$
	(0.015)	(0.010)	(0.016)	(0.017)	(0.016)	(0.009)
Work team environment index	0.045***	0.048***	0.050***	0.049***	0.053***	0.009)
	(0.011)	(0.006)	(0.009)	(0.007)	(0.009)	(0.006)
Career opportunities	0.125***	0.073***	0.082***	0.113***	0.078***	0.114***
	(0.033)	(0.018)	(0.031)	(0.019)	(0.030)	(0.019)
Formal training	0.030	0.005	0.016	0.020	0.021	0.008
	(0.030)	(0.017)	(0.025)	(0.020)	(0.021)	(0.019)
Skills match	0.038	0.006	0.026	0.007	0.066*	-0.019
	(0.035)	(0.020)	(0.034)	(0.022)	(0.035)	(0.023)
Risk of job loss	-0.116***	-0.069***	-0.103*	-0.090***	-0.095***	-0.089***
	(0.040)	(0.024)	(0.042)	(0.025)	(0.030)	(0.029)
35-44 years of age	-0.024	0.062**	0.054	0.019	0.016	0.037
	(0.040)	(0.025)	(0.035)	(0.026)	(0.041)	(0.023)
45-54 years of age 55-64 years of age	0.006	0.038	0.016	0.016	-0.014	0.033
	(0.041)	(0.024)	(0.037)	(0.024)	(0.045)	(0.022)
	-0.029	0.053	0.010	0.051	-0.009	0.086*
	(0.061)	(0.036)	(0.067)	(0.032)	(0.066)	(0.035)
High school	0.010	0.064	-0.058	0.015	-0.062	0.032
ingii concor	(0.072)	(0.076)	(0.068)	(0.065)	(0.067)	(0.061)
Post secondary University	0.018	0.040	-0.047	0.000	-0.046	0.011
	(0.064)	(0.079)	(0.066)	(0.065)	(0.066)	(0.060)
	-0.014	0.049	-0.082	0.013	-0.078	0.036
•	(0.070)	(0.084)	(0.076)	(0.069)	(0.072)	(0.064)
Health	0.029	-0.006	0.036	0.015	0.026	0.032
	(0.043)	(0.029)	(0.047)	(0.029)	(0.046)	(0.028)
Immigrant	0.016	-0.012	0.036	-0.022	0.033	-0.017
	(0.031)	(0.024)	(0.039)	(0.024)	(0.036)	(0.025)
Industry controls	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>
Occupation controls	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Occupation controls	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<b>v</b>	· · · · · · · · · · · · · · · · · · ·	· ·
N	1,035	2,536	1,226	1,937	1,194	1,969

Notes: Marginal effects on the probability of being satisfied or very satisfied with one's job from ordered probit. Dependent variable = 1 if dissatisfied or very dissatisfied with job, 2 if neutral, 3 if satisfied or very satisfied. Non-traditional earner sample includes women (men) with greater than (less than) 50% share of household income. Matched sample based on nearest neighbor matching of male and female workers by income, work hours, contract type, firm size, education, industry and occupation groups. All specifications include inverse Mills ratio from sample selection correction model and province dummies. Standard errors in parentheses. \*\*\* p < 0.005, \*\* p < 0.01, \* p < 0.05.

Table A.7: Gender gap in non-pay job utility index, additional results

	Marital status		Child	Earner Roles		
	Single	Married	Married without children	Married with children	Non-trad.	Trad.
Female	0.071	0.261***	0.241*	0.298***	0.176	0.236**
	(0.100)	(0.068)	(0.095)	(0.092)	(0.123)	(0.092)
Has children	0.174	-0.032	-	-	-0.024	-0.172
D 1: C 027 000 40 000	(0.113)	(0.061)	- 0.094	-	(0.122)	(0.093)
Personal inc. Can\$25,000-49,999	0.077 $(0.171)$	-0.063 (0.118)	-0.234 $(0.170)$	0.066 $(0.164)$	0.145 $(0.212)$	-0.109 $(0.121)$
Personal inc. Can\$50,000-74,999	0.171) $0.129$	-0.033	-0.194	0.075	0.212) $0.173$	-0.188
1 cisonar me. Canoo,000-14,000	(0.212)	(0.125)	(0.191)	(0.174)	(0.230)	(0.126)
Personal inc. Can\$75,000-99,999	0.138	-0.168	-0.388	-0.053	0.077	-0.21
	(0.242)	(0.133)	(0.205)	(0.182)	(0.213)	(0.136)
Personal inc. Can\$100,000-124,999	0.348	-0.154	-0.197	-0.097	0.077	-0.21
Personal inc. Can\$125,000 or more	(0.284)	(0.163)	(0.280)	(0.215)	(0.213)	(0.136)
	0.107	-0.163	-0.359	-0.034	0.076	0.02
	(0.280)	(0.154)	(0.231)	(0.203)	(0.245)	(0.168)
16 to 29 weekly hours	-0.330	-0.732	-0.949*	-0.322	-0.04	-0.047
	(0.410)	(0.467)	(0.566)	(0.824)	(0.267)	(0.189)
30 to 40 weekly hours	-0.348 (0.420)	-0.491 $(0.440)$	-0.892 (0.544)	0.060	0.036	-0.127* (0.071)
more than 40 weekly hours  Medium firm  Large firm	(0.420) $-0.218$	-0.157	-0.709	$(0.793) \\ 0.461$	$(0.201) \\ 0.147$	0.190**
	(0.434)	(0.446)	(0.549)	(0.805)	(0.118)	(0.078)
	-0.252*	-0.117	0.004	-0.169	-0.131	-0.103
	(0.122)	(0.068)	(0.109)	(0.090)	(0.117)	(0.088)
	-0.157	-0.195*	-0.202	-0.185*	-0.332**	-0.153
	(0.122)	(0.076)	(0.127)	(0.096)	(0.128)	(0.108)
Union member	-0.366***	-0.337***	-0.360***	-0.324***	-0.262*	-0.403***
	(0.107)	(0.071)	(0.115)	(0.093)	(0.134)	(0.096)
Work benefits index	0.016	0.038***	0.031	0.039***	0.044**	0.024*
	(0.016)	(0.010)	(0.016)	(0.013)	(0.018)	(0.014)
Work autonomy index	0.072	0.026	0.002	0.041	0.054	-0.019
	(0.061)	(0.039)	(0.060)	(0.049)	(0.068)	(0.054)
Work team environment index	0.354***	0.342***	0.353***	0.334***	0.299***	0.378***
Career opportunities	(0.038)	(0.025)	(0.040)	(0.032)	(0.042)	(0.031)
	0.838***	0.693***	0.774***	0.662***	0.796***	0.720***
Formal training	(0.092) 0.208*	$(0.064) \\ 0.071$	$(0.096) \\ 0.211*$	$(0.080) \\ 0.018$	$(0.114) \\ 0.148$	$(0.087) \\ 0.069$
	(0.093)	(0.060)	(0.092)	(0.075)	(0.095)	(0.075)
Skills match	0.497***	0.267***	0.211	0.314***	0.254*	0.305***
	(0.111)	(0.079)	(0.127)	(0.108)	(0.153)	(0.110)
Risk of job loss 35-44 years of age 45-54 years of age	-0.539***	-0.463***	-0.282	-0.564***	-0.631**	-0.312*
	(0.157)	(0.130)	(0.158)	(0.186)	(0.232)	(0.174)
	$0.097^{'}$	$0.095^{'}$	$0.156^{'}$	0.014	0.008	-0.041
	(0.116)	(0.083)	(0.142)	(0.110)	(0.187)	(0.128)
	0.343*	0.339***	0.294*	0.275*	0.332*	0.158
	(0.139)	(0.086)	(0.137)	(0.116)	(0.191)	(0.138)
55-64 years of age	0.778***	0.420***	0.542**	0.260	0.495**	0.252*
High school Post secondary	(0.221)	(0.122)	(0.199)	(0.166)	(0.179)	(0.122)
	-0.446*	-0.065	-0.325	0.098	-0.134	-0.016
	(0.238)	(0.183)	(0.258)	(0.259)	(0.325)	(0.237)
	-0.323 (0.326)	-0.092	-0.338 (0.342)	0.065	(0.249	-0.303
University Health	(0.226) -0.536*	(0.174) $-0.192$	(0.243) $-0.571*$	(0.243) $0.041$	$(0.319) \\ 0.013$	(0.236) $-0.421*$
	(0.253)	(0.192)	(0.280)	(0.251)	(0.353)	(0.247)
	0.160	0.086	-0.027	0.110	-0.079	0.247 $0.223$
	(0.141)	(0.110)	(0.172)	(0.155)	(0.195)	(0.138)
Immigrant	0.054	0.115	0.126	0.131	0.05	0.143
	(0.114)	(0.079)	(0.133)	(0.099)	(0.138)	(0.101)
To deserting a sectoral a	,					
Industry controls	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Occupation controls	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	✓
R-squared	0.343	0.254	0.266	0.268	0.313	0.266
N	1,974	3,562	1,519	2,043	1,140	2,140

Notes: Coefficients from OLS estimation. Dependent variable is non-pay job utility index, constructed from four workers' reported contentment with their job in four non-pay dimensions (belonging, useful work, motivation, and work accomplishment) using first component of a principal component analysis. Matched sample based on nearest neighbor matching of male and female workers by income, work hours, contract type, firm size, education, industry and occupation groups. Married sample includes married individuals and common-law partners. Single sample is all else. Workers with children sample is individuals with children in the household. No children sample is all else. Traditional earners are whereby the husband earnes a higher share of household income. Non-traditional earners are whereby the wife earns a higher share of household income. All specifications include inverse Mills ratio from sample selection correction model and province dummies. Standard errors in parentheses. \*\*\* p < 0.005, \*\* < 0.01, \* p < 0.05.