The role of psychological traits for the gender gap in employment and wages: Evidence from Germany

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Abstract

This paper examines the role of differences in various non-cognitive traits, specifically the "big five", positive and negative reciprocity, locus of control and risk aversion, for gender inequalities in wages and employment. Using the 2004 and 2005 waves of the German Socio-Economic Panel, evidence from regression and decomposition techniques suggests that, although non-cognitive traits influence both wages and employment, gender differences in psychological traits explain only a relatively share of the observed gender gaps in employment and hourly wages.

Keywords: Gender wage gap, non-cognitive traits, decomposition **JEL Classification:** J24, J31

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The data used in this paper can be obtained from the Socio-Economic Panel Group at the DIW Berlin, see http://www.diw.de for details. Stata 10.1 was used in all calculations. Do-files are available from the author on request. The author would like to thank Joachim Wagner for helpful hints and overall support. All remaining errors are my own.

1 Introduction

Recent research has emphasized the role of personality and other psychological traits like risk-aversion or self-esteem for individual economics success (see Borghans, Duckworth, Heckman and ter Wel, 2008, for a comprehensive overview). Two recent studies by Mueller and Plug (2006) and Fortin (2008) show that non-cognitive traits play a significant role in explaining the gender wage gap among American workers. In addition to providing evidence from a different country, this paper builds on these two studies by considering a greater number of traits, specifically the "big five", a commonly used measure of personality, positive and negative reciprocity, locus of control and risk aversion. Furthermore, I also consider the impact of these non-cognitive traits on the gap in employment in addition to providing evidence for hourly wages. Similar to the results by Mueller and Plug (2006) and to a lesser extent Fortin's (2008) results, the evidence from decomposition techniques presented in this paper suggests that psychological traits play a significant and non-negligible role in explaining gender inequalities in employment and wages.

The economic consequences of psychological traits have been documented in a large number of studies. As the early literature is reviewed in Bowles, Gintis and Osborne (2001), the following short exposition focuses on recent evidence. Borghans, ter Wel and Weinberg (2008) present evidence from Britain, Germany and the US that suggests that individuals who were sociable persons in their youth choose different jobs than other people. They also suggest that recent changes in computerization and modern form of work organization like group and team work complement these social skills. Krueger and Schadke (2008) use time use data from the US and France and show that more gregarious workers prefer jobs that involve social interactions and are happier when their jobs involve these interactions. These results are consistent with earlier evidence by Filer (1986) whose estimates for the US show that individuals' occupational choices are governed by psychological traits. Judge, Tippie and Bono (2001) conduct a meta analysis and show that psychological traits influence job performance and job satisfaction which is similar to the results by Krueger and Schadke (2008).

There is also a large literature on the direct wage effects of various psychological traits, mostly focusing on the US. Goldsmith, Veum and Darity (1997) use NLSY data and find that earnings are influenced by psychological traits. However, they do not look at gender differences. Kuhn and Weinberger (2005) use US data to investigate the effects of leadership skills. Their results indicate that these influence wages and the likelihood to hold a managerial position positively, even when controlling for cognitive skills. Osborne Groves (2005) presents evidence that psychological traits are significant predictors for the earnings of white women in the US. Waddel (2006) finds evidence for the US that poor attitude and low esteem during youth influence the individuals' educational attainment, later employment prospects and later wages negatively. Similar evidence for educational attainment is found by Coleman and DeLeire (2003) who present and estimate an economic model how locus of control influences human capital investment through (wage) return expectations. Nyhus and Pons (2005) document a statistically singificant relationship between wages and the "big five" measures in the Netherlands. the Heckman, Stixrud and Urzua (2006) present a large body of evidence that cognitive and non-cognitive abilities help to explain a large number of economic outcomes. Using the same dataset as my study, Heineck and Anger (2010) study the monetary returns of various congnitive and non-cognitive traits in Germany.

In addition to the evidence presented in the previously mentioned studies, some papers

focus exclusively on gender differences in specific traits. Andreoni and Versterlund (2001) present experimental evidence that men and women differ in altruism with men being more altruistic when it is cheap to do so and women being more altruistic when this behavior is costly. Barber and Odean (2001) explain gender differences in stock trading behavior by differences in overconfidence, while Gneezy, Niederle, Rustichini (2003) present experimental evidence that women perform differently than men in competitive environments even though performance is similar in non-competitive environments. In a series of papers, Booth and Nolan (2009a,b,) focus on gender differences in risk behavior and competition and find that gender differences in both traits are more likely to reflect effects of social learning than pure gender effects.

Finally, a strand of the literature aims at describing gender differences in the economic consequences of psychological traits. Mueller and Plug (2006) use US data to document gender differences in the returns to the "big five" psychological traits and present decomposition results that differences in traits may explain between 7.3% and 16.2% of the earnings gap (depending on the controls used) while IQ differences play no role for the explantion of the gender wage gap. Similarly, Chevalier (2007) shows that various job related expectations and valuations explain a large share of the wage gap among university graduates in the UK even when controlling for other factors. Fortin (2008) considers the impact of self-esteem, external locus of control and the subjective importance of money/work and family/people on the wages of two cohorts of US workers. Her results indicate a significant though modest contribution of these traits to the gender wage gap. Heineck (2007) focuses on differences in the wage returns to non-cognitive traits without attempting a formal decomposition analysis and documents gender differences in the magnitude of coefficients of personality traits in wage regressions for the UK. Cobb-Clark and Tan (2009) use data from the Australian HILDA survey and focus on the role of non-cognitive traits in explaining occupational segregation. Their findings indicate that non-congitive traits influence occupational choice differently for men and women. However, they also find evidence for gender inequalities between men and women working in the same occupation.

On a theoretical level, Mueller and Plug (2006) mention differences in productivity or preferences as possible channels through which personality or psychological traits might influence earnings. The first point emphasizes that psychological traits can be seen as skills that enhance or decrease an individual's performance in a job. One can, for instance, imagine that a very shy individual might be more productive as an accountant than as a salesperson while the opposite might hold for a very communicative individual. Additionally, one could imagine channels that are not directly productivity related and through which traits might influence earnings if, for instance, the tendency to compromise affects the results of wage negotiations (Babcock and Laschever, 2003).

Second, psychological traits may influence an individual's preference for certain jobs. For instance, one can imagine that the already mentioned highly communicative individual prefers being a salesperson over being an accountant, while his shy counterpart prefers the opposite. This idea is consistent with the findings by Krueger and Schadke (2008) who report occupational sorting of individuals with different levels of gregariousness into occupations which require different levels of social interactions.

This paper builds on the work by Mueller and Plug (2006) and Fortin (2008) and makes the following contributions: First, I consider a larger set of psychological traits than those used in previous decompositions, specifically the "big five", positive and negative reciprocity, locus of control and risk aversion. Second, this paper is the first to consider the contribution of differences in psychological traits for the gender gap in employment using a decomposition technique developed by Fairlie (1999, 2004). Such a gap might arise, for instance, when there are no jobs available in which an individual with certain traits could work productively or when the available jobs do not fit the preferences of the respective individual. Finally, this paper is also the first to present wage decomposition results for psychological traits for a country other than the US.

The remainder of the paper is organized as follows: Section 2 describes the data and the estimation model used, while descriptive statistics are found in section 3. Results are found in section 4, section 5 concludes.

2 Data and Methods

The data used come primarily from the 2005 wave of the German Socio-Economic Panel (SOEP, see Wagner, Frick, Schupp 2007 for a general overview) while the measure of riskaversion is taken from the 2004 wave. The analysis is based on the subsamples A to F. Sample A "Residents in the FRG", surveyed since 1984, is drawn from the population of households whose head does not belong to one of the "guestworker" nationalities (Turkish, Greek, Yugoslavian, Spanish, and Italian). The latter were surveyed in sample B, labeled "Foreigners in the FRG", which oversampled households with a household head with one of the aforementioned nationalities. Households from the (former) German Democratic Republic were included since July 1990 in Sample C "German Residents in the GDR". In 1994/1995 households whose head migrated to Germany after 1984 were surveyed in sample D "Immigrants". Samples E "Refreshment" and F "Innovation" beginning in 1998 and 2000 respectively were drawn from the population of the German households.¹ Fur-

¹There is also a sample G "Oversampling of High Income", surveyed since 2002, originally drawn from the population of households with a monthly income over $2,835 \in (7,000 \text{ Deutsche Mark})$ that is not used in this analysis.

ther information on the sampling design as well as additional information on the overall structure of the SOEP can be found in Haisken-DeNew and Frick (2005).

I restrict the sample to individuals with a German nationality between 25 and 55 years of age. Note that this includes German individuals from samples B and D who live in a household with a foreign head. As interest lies in both employment and wages, I form two estimation samples. The "employment sample" is not restricted further and consists of 4,216 women and 3,849 men. For the "wage sample" I keep only employed workers and drop individuals in the top and bottom 1% of the outcome distribution which leads to a sample of 2,849 women and 2,711 men. As the working hours of men and women differ even among the full-time employed and in line with the work by Mueller and Plug (2006) and Fortin (2008) hourly wages are used in the analysis.²

The 2005 wave of the SOEP contains a variety of questions related to psychological traits (see table 1 for the exact wording of the questions). Note that the reliability ratios of the constructed traits (Cronbach's α , see Cronbach 1951), the square of the correlation between the constructed scale and the underlying factor, also presented in table 1, lie between 0.51 (agreeableness) and 0.83 (negative reciprocity) which is rather low but directly related to the relatively few questions for each trait (Mueller and Plug 2006, p. 8 and Heineck and Anger 2010).

The first group of characteristics is based on the five factor taxonomy that goes back to Thurstone (1934). It distinguishes five basic personality traits, specifically openness to experience, conscientiousness, extraversion, agreeableness and neuroticism. Openness to experience covers curiosity, creativity and appreciation for new or unconventional ideas, culture and art. Conscientiousness is related to self-discipline, a sense for duty, aim for

 $^{^{2}}$ Using the information on monthly labor income available in the SOEP, these have been calculated as follows: Monthly labor income * 12 months / 52 weeks / typical actual working hours per week.

achievement and a preference for planned instead of spontaneous behavior. Extraversion influences energetic and social behavior and engagement with the world. Agreeablesness broadly reflects an individual's ability and tendencey to get along well with other individuals. It also covers a tendency for cooperation and compromise instead of conflict. Finally, neuroticism can be thought of as emotional instability, e.g. the tendency to experience negative feelings, like anger, sorrow or anxiety, and to suffer from stress. Each of the traits is measured by the average of the responses on a seven point scale to three questions for each trait where higher values represent higher levels of the respective traits. For the estimations, traits have been standardized to a mean of 0 and a standard deviation of 1 in the whole sample, which still preserves mean differences between men and women.

(TABLE 1 ABOUT HERE.)

A second characteristic is external locus of control based on the work of Rotter (1966). Individuals with a high external locus of control believe that their lives are largely governed by fate, chance and other events outside their control. The trait is again measured as the average of the responses on a seven point scale to five questions. Another characteristic is reciprocity (see e.g. Fehr and Gächter 2000) that is an individual's willingness to return favorable (positive reciprocity) or hostile/negative acts of other individuals (negative reciprocity). Each of the traits is again measured by the average of the responses on a seven point scale to three questions for each trait, agains standardized for the estimations as described above.

Finally, a measure of the willingness to take risk is taken from the 2004 wave of the SOEP. Risk is measured on an eleven point scale where "0" corresponds to complete risk aversion and "10" to full preparedness to take risk. The question has been validated exper-

imentally by a real-stake lottery conducted with a subset of the respondents and has been shown to be related to other activities involving risk (Dohmen et al. 2005).

Note at that point that, similar to Mueller and Plug (2006), personality traits and outcomes are measured at the same time which could lead to issues with reversed causality. Evidence from earlier studies, reviewed by Bouchard and Loehlin (2001) and usually based on comparisons between monozygotic and dizygotic twins, between other members of the same family and combinations of these suggests that about 40% to 60% of the variation in personality is related to genetic factors and hence predetermined with respect to labor market outcomes. For the remaining part, some evidence suggests that large parts of personality are formed during childhood and adolescene (Caspi and Roberts 1999, Costa and McCrae 1994, 1997, Digman 1989) which also mitigates endogeneity concerns. Costa, Herbst, McCrae and Siegler (2000) find only moderate changes in psychological traits caused by various events in life. However, they do find some evidence that changes in economic status might influence personality. There is also evidence that personality traits may change slightly in the process of aging (Allemand, Zimprich and Hertzog 2007). Taken together, this evidence is far from any proof for either the existence or absence of endogeneity problems. However, while some care should be taken with the econometric results, it seems safe to conclude that at least large parts of psychological traits are relatively fixed for adults.

In the first step of the econometric analysis, I run probit regressions for employment and OLS regressions for (log) wages. These regressions are estimated in three models separately for men and women. In model I, only the psychological traits are used as explanatory variables. This allows for the possibility of traits affecting educational and family decisions. In model II, I add information on parental background, specifically whether at least one parent completed higher secondary schooling (Abitur) and whether at least one parent graduated from university, the current family situation, that is dummies for being married and for cohabiting and the number of children under 16 years of age, years of completed schooling and a second order polynomial in age. All controls in this model can be seen as fixed at the time of labor market entry. In model III, additional controls for lifetime full-time work experience and lifetime unemployment experience are added as second order polynomials. Note that these variables can be seen as outcomes of personality in which case they can be expected to capture some of the possible returns to these traits.

For the wage decompositions, I rely on standard Oaxaca-Blinder-decompositions to identify the part of the raw wage differential explained by differences in the covariates and the part of the differential unexplained by these observable differences. More formally, let \bar{y}^M and \bar{y}^F denote the average wage of men and women respectively. The decomposition is then defined as

$$\bar{y}^{M} - \bar{y}^{F} = (\bar{X}^{M} - \bar{X}^{F})'\beta^{M} + \bar{X}^{M}(\beta^{M} - \beta^{F})$$
(1)

where β^M and β^F are the coefficients from a regression on the male or female sample alone and \bar{X}^M and \bar{X}^F are the means of the respective independent variables. The first part of the right hand side of equation (1) is the part of the wage gap related to differences in average endowments, while the second part is related to differences in coefficients. Depending on the choice of the groups whose coefficients are used for weighting the differences, one either models a situation where women are paid like men or vice versa.

As usual, I focus on the explained part of the differential as the unexplained part might be due to genuine differences in the (structural) coefficients as well as due to differences in unobservables. I also rely on the usual practice of using both the female and the male coefficients as weights for the decomposition. Standard errors for the decomposition are calculated by the method proposed in Jann (2008) which is similar to the well-known delta-method.

Note that there are no categorical variables in the analysis, which are problematic in decompositions as the explained part of the differential is sensitive to the choice of the excluded base alternative (Oaxaca and Ransom 1999, Gardeazabal and Ugidos 2004).

In the case of the employment regressions, I rely on the decomposition technique developed by Fairlie (1999, 2004) who shows that for binary choice models the raw difference in the outcome can be decomposed as

$$\overline{Y}^M - \overline{Y}^F = \left[\sum_{i=1}^{N^M} \frac{F(X_i^M \widehat{\beta}^M)}{N^M} - \sum_{i=1}^{N^F} \frac{F(X_i^F \widehat{\beta}^M)}{N^F}\right] - \left[\sum_{i=1}^{N^M} \frac{F(X_i^F \widehat{\beta}^M)}{N^F} - \sum_{i=1}^{N^F} \frac{F(X_i^F \widehat{\beta}^F)}{N^F}\right],\tag{2}$$

where the first term in brackets is the part of the outcome differential that is due to differences in endowments and the second term represents the term attributable to differences in coefficients. Standard errors for that decomposition are computed using 100 bootstrap replications.³

3 Descriptives

Consider the descriptive evidence displayed in table 2. Note first that there are considerable gender differences in the outcome measures: Women are much less likely than men to be employed and also earn about 1,200 Euro per month and about 3 Euro per hour less than men.

 $^{^{3}}$ The decomposition uses the ado-File *fairlie* by Ben Jann (Jann 2006).

(TABLE 2 ABOUT HERE.)

For the control variables, the descriptive results show similar values for the socioeconomic background variables and average years of schooling. As one might expect, there are large differences in full-time work experience in favor of men.

(FIGURE 1 ABOUT HERE.)

Focus now on differences in the psychological traits in table 2 and figure 1. To facilitate size comparisons, figure 1 display the percentage deviations of women's mean traits from the corresponding value for men. As results are similar for the employment and wage samples, only the former are displayed. Men and women do not differ in positive reciprocity, that is their willingness to return favorable acts, and in external locus of control, that is their belief on their ability to influence the world through their actions. Only small, albeit significant differences are found for openness to experience, extraversion and conscientiousness. Larger differences are found for the remaining traits: In both samples, women have higher levels of agreeableness and higher levels of neuroticism, that is a lower emotional stability. Men are more revengeful as shown by their higher levels of negative reciprocity and more willing to bear risks.

4 Results

4.1 Employment

Consider the results for the probit estimation displayed in table 3. As there is no direct structural model underlying these estimates, coefficients should be seen as suggestive, rather than causal evidence. Focusing on similarities and differences between men and women, we see a relatively pattern of results for most of the psychological traits when it comes to signs and significance: For both men and women, higher levels of conscientiousness (discipline) are negatively related to non-employment, while a high external locus of control and a high agreeableness have the opposite effect. Looking at the marginal effects also reveals economically large effects of these traits. The effects of openness, negative reciprocity and willingness to take risks are either statistically insignificant or – where significant – tiny from an economic perspective.

(TABLE 3 ABOUT HERE.)

Gender differences are noted for extraversion, which shows a negative association with non-employment prospects for women, and for positive reciprocity, which shows the same association for men. Focusing on the marginal effects at the lower panel of table 3, we see that these traits are also associated with economically large changes in the probability of non-employment.

Now turn to the decomposition results in table 4. Consider first the results from the parsimonious model I. The results suggest a relatively minor role of differences in non-cognitive traits, which explain only around 1 percentage point (or about 8%) of the gender gap in non-employment. Of these, differences in conscientiousness, external locus of control and aggreableness play the (relative) biggest role, whereas the other characteristics explain only minuscule part sof the gender gapp.

Adding further background variables in models II and III has the effect of raising the overall explained share, with the inclusion of variables related to past labor market experience having the largest effect. The role of the non-cognitive traits remains relatively modest and similar to model I with the exception of external locus of control, where the associated coefficient switches signs. However, this effects is probably too small to be of any practical importance.

4.2 Wages

Consider now to the results for the wage regressions found in table 5. Looking first at model I, we see that only openness shows a positive association with wages. Extraversion, conscientiousness, agreeableness, negative reciprocity and external locus of control show a negative association with wages. The size of the respective coefficients is generally very similar across men and women, except for negative reciprocity and external locus of control that are both more negative for women. These results are broadly consistent with the previous literature, e.g. the results by Heineck (2007) for the UK and the findings by Mueller and Plug (2006) for the US. The only counterintuitive finding is the negative association between conscientiousness and wages, which is unexpected and actually hard to explain from a theoretic perspective.

(TABLE 5 ABOUT HERE.)

Adding control variables in models II and III leads to almost all traits loosing importance. Exceptions are found for external locus off control and conscientiousness that remain negatively associated with wages. Openness tends to matter only for men, whereas agreeableness and negative reciprocity keep their negative association with female wages. Note that the size of the significant coefficients generally indicates non-negligible economic effects.

Consider now the decomposition results in table 6. The results generally suggest a relatively minor role of differences in non-cognitive traits for gender differences in hourly wages. In model I traits alone explain only a mere 1 percentage point of the initial 25% earnings gap. Adding control variables in models II and III laeds to even smaller effects of the non-congnitive traits with only some of the "big 5" and negative reciprocity still contributing to gender ineqaulities. Looking at single factors that matter over the different models, we see that differences in conscientiousness, agreeableness and negative reciprocity working in favor of women.

(TABLE 6 ABOUT HERE.)

To sum up, the results in this paper generally suggest a relatively minor influence of differences in personality and other non-cognitive traits on gender inequalities in employment and wages. While non-cognitive traits are shown to influence the respective outcomes and while there are in fact some gender differences in strength and direction of the influence of certain traits, the contribution of differences in these traits to overall gender inequalities is very small. From the perspective of policymakers aiming at reducing gender inequalities, this finding is reassuring: Given that differences in psychological traits are very likely to a large degree policy invariant, attenuating gender imbalances in the labor market would be very difficult if traits played a large role.

5 Conclusion

This paper considered the importance of gender differences in various psychological traits, specifically the "big five", positive and negative reciprocity, locus of control and risk aversion for gender inequalities in wages and employment. Building on earlier research by Mueller and Plug (2006) and Fortin (2008), I show that differences in these traits contribute to the observed wage and employment differences. However, the effects are generally negligibly small from an economic perspective, explaining in total at most 1 percentage point (or between 4% and 8%) of the observed gaps in employment and wages. Accounting for further control variables generally reduces the effects of traits, although the effects of conscientiousness and an external locus of control generally persist in all models.

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7 Tables

Question	Trait (Cronbach's α in parentheses)
Risk aversion:	
Are you generally a person who is fully prepared to take risks or do you try to avoid	
taking risks? 0 (risk averse) - 10 (fully prepared to take risks)	Willingness to take risks
Big five:	
I see myself as someone who	
is original, comes up with new ideas.	
values artistic experiences.	Openness to experience (0.5954)
has an active imagination.	
does a thorough job.	
tends to be lazy (reversed coding).	Conscientiousness (0.6139)
does things effectively and efficiently.	
is communicative, talkative.	
is outgoing, sociable.	Extraversion (0.6646)
is reserved (reversed coding).	
is sometimes somewhat rude to others (reversed)	
has a forgiving nature	Agreeableness (0.5090)
is considerate and kind to others	
worries a lot	
gets nervous easily	Neuroticism (0.6178)
is relaxed, handles stress well (reversed)	
Locus of control:	
Compared to other people, I have not achieved what I deserve.	
What a person achieves in life is above all a question of fate or luck.	
I frequently have the experience that other people have a controlling influence over my life.	External locus of control (0.6271)
The opportunities that I have in life are determined by the social conditions.	
Inborn abilities are more important than any efforts one can make.	
Reciprocity:	
If someone does me a favor, I am prepared to return it.	
I go out of my way to help somebody who has been kind to me before.	Positive Reciprocity (0.6134)
I am ready to undergo personal costs to help somebody who helped me before.	
If I suffer a serious wrong, I will take revenge as soon as possible, no matter what the cost.	
If somebody puts me in a difficult position, I will do the same to him/her.	Negative Reciprocity (0.8279)
If somebody offends me, I will offend him/her back.	

TABLE 1: QUESTIONS RELATED TO PERSONALITY TRAITS

Questions taken from the SOEP questionaires using SOEPinfo (http://panel.gsoep.de/soepinfo2007/).

Variable	Wo	men	М	en	P-Value
	Mean	Std.dev.	Mean	Std.dev.	
Employme	NT SAMPLE				
Individual is not employed $(1 = \text{ves})$	0.2747	0.4464	0.1260	0.3319	0.0000
Openness	4.6212	1.1736	4.4411	1.1162	0.0000
Extraversion	4.9870	1.1252	4.7440	1.1010	0.000
Conscientiousness	6.0342	0.8433	5.9402	0.8815	0.000
Agreeableness	5.5815	0.9125	5.2645	0.9793	0.000
Neuroticism	4.1580	1.1942	3.6840	1.1615	0.000
Positive reciprocity	5.8594	0.8950	5.8746	0.8756	0.440
Negative reciprocity	2.9621	1.3896	3.3553	1.4595	0.000
External locus of control	3.6432	0.9179	3.6374	0.9326	0.778
Willingness to take risks	4.2540	2.1527	5.1878	2.1113	0.000
At least one parent has higher secondary schooling $(1 = yes)$	0.1229	0.3283	0.1268	0.3328	0.5948
At least one parent has academic training $(1 = \text{yes})$	0.1492	0.3563	0.1650	0.3712	0.0519
Children under 16 years of age in HH $(1 = yes)$	1.5320	0.4990	1.5747	0.4945	0.000
Individual is married $(1 = \text{yes})$	0.6525	0.4762	0.6191	0.4857	0.001
Individual has partner $(1 = yes)$	0.1366	0.3435	0.1338	0.3405	0.711
Age (years)	40.5688	8.4167	40.8241	8.2430	0.169
Years of schooling	12.5042	2.4718	12.6143	2.6369	0.053
Full-time work experience (months)	10.4861	8.4019	17.1414	9.2920	0.000
Unemployment experience (months)	0.8931	1.9232	0.7223	1.7051	0.000
No. of Obs.		216		349	0.000
WAGE	SAMPLE	-	- / .	-	
Monthly labor income (€)	1734.2919	1005.4280	2979.9609	1300.4982	0.000
Hourly labor income (€)	12.6512	6.0907	15.8982	7.0583	0.000
Openness	4.6099	1.1638	4.4059	1.0933	0.000
Extraversion	5.0289	1.1034	4.7253	1.0972	0.000
Conscientiousness	6.0885	0.8056	5.9694	0.8485	0.000
Agreeableness	5.5773	0.9044	5.2594	0.9781	0.000
Neuroticism	4.1268	1.1874	3.6432	1.1464	0.000
Positive reciprocity	5.8833	0.8814	5.8828	0.8615	0.982
Negative reciprocity	2.9556	1.3771	3.3375	1.4431	0.000
External locus of control	3.5953	0.8881	3.5914	0.8870	0.869
Willingness to take risks	4.2919	2.1158	5.1244	2.0621	0.000
At least one parent has higher secondary schooling $(1 = yes)$	0.1092	0.3120	0.1182	0.3229	0.288
At least one parent has academic training $(1 = yes)$	0.1400	0.3470	0.1524	0.3595	0.186
Children under 16 years of age in HH $(1 = \text{yes})$	1.5967	0.4906	1.5532	0.3330 0.4972	0.000
Individual is married $(1 = yes)$	0.6325	0.4822	0.6520	0.4764	0.126
Individual has partner $(1 = yes)$	0.1512	0.3583	0.1268	0.3328	0.008
Age (years) $(1 - yes)$	40.7157	8.2078	40.6880	8.0284	0.897
Years of schooling	12.6128	2.4525	12.6351	2.6170	0.897
Full-time work experience (months)	11.4122	8.6486	17.6129	9.0681	0.000
Unemployment experience (months)	0.6010	1.3512	0.3909	0.9563	0.000
No. of Obs.	2,7			0.9505 849	0.000

All values taken from the 2005 wave of the SOEP except "willingness to take risks" which is taken from the 2004 wave.

Variable	Me	odel I	Mc	del II	Mo	del III
	Male results	Female results	Male results	Female results	Male results	Female results
		Not employee	, PROBIT ESTIMA	res		
Traits (standardized)						
Openness to experience	0.0128	-0.0037	0.0319	0.0117	0.0058	0.0125
	(0.0312)	(0.0228)	(0.0322)	(0.0239)	(0.0352)	(0.0247)
Extraversion	0.0400	-0.0552*	0.0267	-0.0726**	0.0099	-0.0713**
	(0.0305)	(0.0234)	(0.0316)	(0.0243)	(0.0339)	(0.0247)
Conscientiousness	-0.1259***	-0.1332***	-0.1285^{***}	-0.1288***	-0.0695*	-0.1128***
	(0.0275)	(0.0228)	(0.0285)	(0.0241)	(0.0323)	(0.0246)
Agreeableness	0.1072^{***}	0.0788**	0.0980**	0.0604^{*}	0.0845^{*}	0.0214
	(0.0303)	(0.0254)	(0.0310)	(0.0263)	(0.0346)	(0.0271)
Neuroticism	0.0857**	0.0317	0.0764^{*}	0.0254	0.0307	-0.005
	(0.0300)	(0.0224)	(0.0307)	(0.0230)	(0.0348)	(0.0238)
Positive reciprocity	-0.0783**	-0.0301	-0.0796**	-0.0311	-0.0596+	-0.019
	(0.0293)	(0.0218)	(0.0302)	(0.0227)	(0.0330)	(0.0232
Negative reciprocity	0.0494	-0.0039	0.0138	-0.0377	0.0130	-0.0487-
	(0.0306)	(0.0240)	(0.0312)	(0.0247)	(0.0348)	(0.0258)
External locus of control	0.2752^{***}	0.1296^{***}	0.2433^{***}	0.1196^{***}	0.1733^{***}	0.0889**
	(0.0295)	(0.0228)	(0.0305)	(0.0242)	(0.0335)	(0.0252)
Willingness to take risks	-0.0087	-0.0251*	-0.0110	-0.0143	0.0004	-0.0228
	(0.0136)	(0.0102)	(0.0140)	(0.0106)	(0.0154)	(0.0109
			FFECTS AT MEANS			
Openness to experience	.002	001	.005	.004	.001	.00
Extraversion	.008	018*	.005	023**	.001	022**
Conscientiousness	024***	044***	021***	041***	009*	035***
Agreeableness	.020***	.026**	.016**	.019*	.012*	.00
Neuroticism	.016**	.010	.013*	.008	.004	00
Positive reciprocity	015**	010	014**	010	008+	00
Negative reciprocity	.009	001	.002	012	.002	015-
External locus of control	.052***	.043***	.041***	.038***	.024***	.028***
Willingness to take risks	002	008**	002	005	.000	007
No. of Obs.	3,849	4,216	3,849	4,216	3,849	4,21
Additional controls						
Parental background	(no)	(no)	(yes)	(yes)	(yes)	(yes
Current family situation	(no)	(no)	(yes)	(yes)	(yes)	(yes
Age	(no)	(no)	(yes)	(yes)	(yes)	(yes
Education	(no)	(no)	(yes)	(yes)	(yes)	(yes
Employment experience	(no)	(no)	(no)	(no)	(yes)	(yes
Unemployment experience	(no)	(no)	(no)	(no)	(yes)	(yes

Table 3: Employment regression results, Probit estimates, dependent variable: not employed (1 = yes)

Coefficients, robust standard errors in parentheses. ***/**/*/+ denote significance on the 0.1%, 1%, 5% and 10% level respectively. Full estimation results are available from the author on request.

COMPOSITION RESULTS: SHARE OF NON-EMPLOYED INDIVIDUALS, FAIRLIE DECOMPOSITION
INDIVIDUALS,
NON-EMPLOYED
S: SHARE OF]
TION RESULTS
DECOMPOSI
TABLE 4:

weighted by: Share women Share men Difference						
Share women Share men Difference	Male coeffs.	Female coeffs.	Male coeffs.	Female coeffs.	Male coeffs.	Female coeffs.
Difference				.2747 1260		
DILLET GILLE			: .	.1487		
Total explained	.0118	.0113	.0104	.0222	.1456	0060.
Big Five:	0.0083^{*}	0.0011	0.0066^{*}	-0.0028	0.0076	-0.0088*
	(0.0033)	(0.0043)	(0.0031)	(0.0043)	(0.0046)	(0.0045)
Openness to experience	0.0002	-0.0002	0.0007	0.0004	0.0002	0.0004
	(0.0008)	(0.0011)	(0.0006)	(0.0010)	(0.0010)	(0.0010)
Extraversion	0.0012	-0.0043*	0.0006	-0.0054^{**}	0.0005	-0.0048^{**}
	(0.000)	(0.0018)	(0.0008)	(0.0017)	(0.0015)	(0.0017)
Conscientiousness	-0.00215	(0 001 0)	-0.0030	-0.0010/	+0.0020	-0.0000/
Agreeableness	(cton.u)	(eton.u) (eton.u)	0.0059**	0.0065*	0.0065*	0.0024
0	(0.0018)	(0.0027)	(0.0019)	(0.0027)	(0.0028)	(0.0029)
Neuroticism	0.0066^{**}	0.0039	0.0051^{*}	0.0025	0.0030	-0.0008
	(0.0024)	(0.0030)	(0.0021)	(0.0026)	(0.0030)	(0.0027)
Reciprocity:	-0.0028*	0.003	-0.0015	0.0022	-0.0013	0.0032 +
	(0.0013)	(0.0019)	(0.0014)	(0.0018)	(0.0025)	(0.0019)
Positive reciprocity	-0.0007*	0.0000	-0.0008**	-0.0002	-0.0002 +	-0.0002
	(0.0003)	(0.0001)	(0.0003)	(0.0002)	(0.0001)	(0.0002)
Negative reciprocity	-0.0021 +	0.0003	-0.0006	0.0024	-0.0010	0.0034 +
	(0.0013)	(0.0019)	(0.0014)	(0.0017)	(0.0024)	(0.0019)
External locus of control	0.0047^{***}	0.0020^{***}	-0.0047^{***}	-0.0012^{***}	-0.0041^{***}	-0.0004*
	(0.0008)	(0.0005)	(0.0007)	(0.0003)	(0.0008)	(0.0002)
Willingness to take risks	0.0016	0.0081^{*}	0.0019	0.0038	0.0007	0.0056^{*}
	(0.0026)	(0.0032)	(0.0022)	(0.0027)	(0.0034)	(0.0027)
Age			0.0016 +	-0.0047^{***}	-0.0218^{***}	-0.0062^{***}
			(0.0009)	(0.0011)	(0.0029)	(0.0011)
Parental background			-0.0004	-0.0023***	-0.0008	-0.0019^{**}
			(0.0005)	(0.0007)	(0.0005)	(0.0007)
Current family situation			-0.0016	0.0181^{***}	-0.0012	0.0129^{***}
			(0.0018)	(0.0017)	(0.0025)	(0.0014)
Education			0.0085^{***}	0.0090^{***}	-0.0044***	0.0030^{***}
			(0.0013)	(0.0013)	(0.0012)	(0.0007)
Labor market career					0.1709^{***}	0.0827^{***}
					(0.0196)	(0.0069)

Standard errors based on 100 bootstrap replications in parentheses. ***/**/* denote significance on the 0.1%, 1%, 5% and 10% level respectively. Full estimation results are available from the author on request.

Variable	Mc	Model I	Model I	IT IAN	INTO	III lodel III
	Male results	Female results	Male results	Female results	Male results	Female results
Traits (standardized)						
Openness to experience	0.0356^{***}	0.0297^{**}	0.0156 +	0.0109	0.0172^{*}	0.0135
	(0.0090)	(0.0100)	(0.0083)	(0.0095)	(0.0070)	(0.0091)
Extraversion	-0.0166 +	-0.0191 +	-0.0011	-0.0072	-0.0018	-0.0085
	(0.0088)	(0.0105)	(0.0070)	(0.0100)	(0.0076)	(0.0096)
Conscientiousness	-0.0326^{***}	-0.0260^{*}	-0.0268**	-0.0172	-0.0312^{***}	-0.0241^{*}
	(0.000)	(0.0111)	(0.0083)	(0.0106)	(0.0070)	(0.0103)
Agreeableness	-0.0210^{*}	-0.0354^{**}	-0.0141 +	-0.0270^{**}	-0.079	-0.0174 +
I	(0.0089)	(0.0108)	(0.0082)	(0.0104)	(0.0078)	(0.0102)
Neuroticism	-0.0050	-0.0209*	-0.0111	-0.0158+	-0.0121	-0.0068
	(0.0089)	(0.0099)	(0.0081)	(0.0095)	(0.0078)	(0600.0)
Positive reciprocity	0.0082	0.0111	0.0044	0.0032	0.0022	0.0024
	(0.0092)	(0.0098)	(0.0082)	(0.0094)	(0.0070)	(0.000)
Negative reciprocity	-0.0281^{**}	-0.0433^{***}	0.0009	-0.0239*	0.0028	-0.0236*
	(0.0091)	(0.0106)	(0.0083)	(0.0104)	(0.0081)	(0.0101)
External locus of control	-0.0865***	-0.0625***	-0.0636^{***}	-0.0427 * * *	-0.0541^{***}	-0.0362^{***}
	(0.0094)	(0.0101)	(0.0086)	(0.0100)	(0.0083)	(0.007)
Willingness to take risks	-0.0084^{*}	-0.0019	-0.0035	-0.0059	-0.0043	-0.0031
1	(0.0042)	(0.0044)	(0.0038)	(0.0043)	(0.0037)	(0.0041)
No. of Obs.	2,849	2,711	2,849	2,711	2,849	2,711
R^2	0.0485	0.0357	0.2398	0.1322	0.2970	0.2000
Additional controls						
Parental background	(ou)	(ou)	(se)	(ses)	(se)	(se)
Current family situation	(ou)	(ou)	(se)	(se)	(se)	(se)
Age	(ou)	(ou)	(se)	(se)	(se)	(ses)
Education	(ou)	(ou)	(se)	(ses)	(se)	(ses)
Employment experience	(ou)	(ou)	(ou)	(ou)	(se)	(ses)
Unemployment experience	(oo)	(ou)	(ou)	(ou)	(se)	(ses)

TABLE 5: WAGE REGRESSION RESULTS: LOG HOURLY WAGES, OLS ESTIMATES

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TABLE 6: DECOMPOSITION	RESULTS:	Log	HOURLY	WAGES,	OAXACA-BLINDER-
DECOMPOSITION					

Variable	Me	odel I	Mo	del II	Mo	del III
weighted by:	Male coeffs.	Female coeffs.	Male coeffs.	Female coeffs.	Male coeffs.	Female coeffs.
Avg. log wage women	2.4297^{***}	2.4297***	2.4297***	2.4297***	2.4297***	2.4297***
	(0.0092)	(0.0092)	(0.0092)	(0.0092)	(0.0092)	(0.0092)
Avg. log wage men	2.6757^{***}	2.6757^{***}	2.6757^{***}	2.6757^{***}	2.6757^{***}	2.6757***
0 0 0	(0.0082)	(0.0082)	(0.0082)	(0.0082)	(0.0082)	(0.0082)
Difference	-0.2460***	-0.2460***	-0.2460***	-0.2460***	-0.2460***	-0.2460***
	(0.0123)	(0.0123)	(0.0123)	(0.0123)	(0.0123)	(0.0123)
Total explained	-0.0107	0.0026	-0.0056	-0.0164*	-0.0726***	-0.0547**
-	(0.0076)	(0.0070)	(0.0085)	(0.0081)	(0.0115)	(0.0172)
Big five:	-0.0236***	-0.0117*	-0.0176**	-0.0104*	-0.0117*	-0.0092+
-	(0.0064)	(0.0057)	(0.0060)	(0.0050)	(0.0058)	(0.0049)
Openness to experience	0.0053**	0.0063 * * *	0.0019	0.0028 +	0.0024	0.0031*
	(0.0019)	(0.0019)	(0.0017)	(0.0015)	(0.0017)	(0.0015)
Extraversion	-0.0052+	-0.0045 +	-0.0020	-0.0003	-0.0023	-0.0005
	(0.0028)	(0.0025)	(0.0027)	(0.0022)	(0.0026)	(0.0021)
Conscientiousness	-0.0037*	-0.0046**	-0.0024	-0.0038**	-0.0034*	-0.0044**
	(0.0016)	(0.0015)	(0.0015)	(0.0013)	(0.0015)	(0.0014)
Agreeableness	-0.0117**	-0.0069*	-0.0089*	-0.0047 +	-0.0058+	-0.0026
-	(0.0037)	(0.0030)	(0.0035)	(0.0027)	(0.0033)	(0.0026)
Neuroticism	-0.0083 [*]	-0.0020	-0.0062+	-0.0044	-0.0027	-0.0048
	(0.0039)	(0.0035)	(0.0037)	(0.0032)	(0.0035)	(0.0031)
Reciprocity:	0.0115***	0.0074**	0.0063*	-0.0002	0.0062*	-0.0007
	(0.0030)	(0.0025)	(0.0027)	(0.0021)	(0.0026)	(0.0021)
Positive reciprocity	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
	(0.0003)	(0.0002)	(0.0001)	(0.0001)	(0.0001)	(0.0001)
Negative reciprocity	0.0114^{***}	0.0074^{**}	0.0063*	-0.0002	0.0062^{*}	-0.0007
	(0.0030)	(0.0025)	(0.0027)	(0.0021)	(0.0026)	(0.0021)
External locus of control	-0.0002	-0.0002	-0.0001	-0.0002	-0.0001	-0.0001
	(0.0016)	(0.0022)	(0.0011)	(0.0016)	(0.0009)	(0.0014)
Willingness to take risks	0.0016	0.0070^{*}	0.0050	0.0029	0.0026	0.0036
	(0.0037)	(0.0034)	(0.0036)	(0.0031)	(0.0034)	(0.0029)
Age		. ,	-0.0023	-0.0025	-0.0020	-0.0007
0			(0.0019)	(0.0033)	(0.0013)	(0.0028)
Parental background			0.0006	0.0002	0.0003	0.0001
0			(0.0006)	(0.0004)	(0.0004)	(0.0003)
Current family situation			0.0037^{*}	-0.0053**	0.0018	-0.0045**
			(0.0016)	(0.0018)	(0.0012)	(0.0015)
Education (years)			-0.0011	-0.0010	-0.0010	-0.0009
(v /			(0.0039)	(0.0033)	(0.0036)	(0.0031)
Labor market career			(()	-0.0687***	-0.0423**
					(0.0082)	(0.0155)

 $\frac{(0.003)}{(0.013)}$ Standard errors in parentheses. ***/**/+ denote significance on the 0.1%, 1%, 5% and 10% level respectively. Full estimation results are available from the author on request.

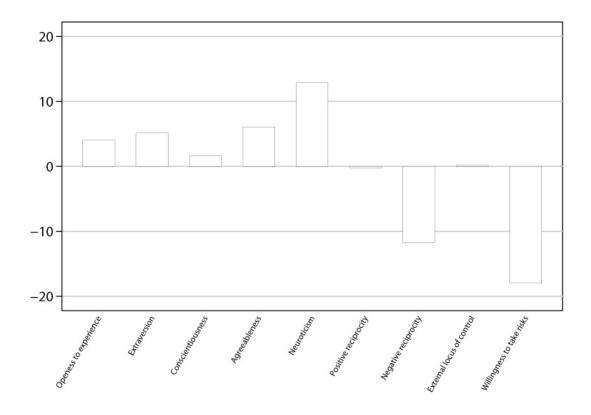


FIGURE 1: PERCENTAGE DIFFERENCES IN MEAN TRAITS BETWEEN MEN AND WOMEN

The bars represent the percentage difference between mean values of women relative to men, calculated as ((Value women)/(Value Men) \ast 100) - 100.