



WORKING PAPER SERIES

2019-EQM-06

Firms and wage inequality in Central and Eastern Europe*

Iga Magda

Institute for Structural Research (IBS), Warsaw, Poland; IZA, Bonn, Germany

Jan Gromadzki

Institute for Structural Research (IBS), Warsaw, Poland

Simone Moriconi

IÉSEG School of Management and LEM-CNRS (UMR 9221)

IÉSEG School of Management Lille Catholic University 3, rue de la Digue F-59000 Lille

www.ieseg.fr

Tel: 33(0)3 20 54 58 92

Firms and wage inequality in Central and Eastern Europe*

Iga Magda[†], Jan Gromadzki[‡], Simone Moriconi[§]

5 March 2019

Abstract

Recent studies show that firms are playing an increasingly important role in shaping wage inequality in advanced economies. We contribute to this literature by analysing wage inequality patterns and their firm dimension in Central and Eastern European countries. We use large, linked employer-employee datasets with data from the 2002-2014 period. We find that unlike in many other advanced economies, wage inequality levels have decreased in CEE countries, and particularly in those countries that previously had the highest wage inequality levels. The relative size of the between-firm component varied substantially across countries, and was largest in countries with the highest wage inequality levels. We further estimate the recentered influence function (RIF) regression and the Blinder-Oaxaca decomposition in order to investigate the micro-level determinants of wage inequality. Our findings indicate that the changes in wage inequality levels were mainly attributable to returns to workplace characteristics.

Keywords: wages, wage inequality, RIF regression, linked employer-employee data

JEL Classification: D22, J31, J40

*This paper has benefited from the financial support provided by the National Science Center, Poland (DEC-2013/10/E/HS4/00445) and by the World Bank Group (FY2016 DGF Network for Jobs and Development-DGF File: 502916-05). We would like to thank Peter Orazem, the participants of the 2018 EALE, 2018 IZA World Labour conference and the 2018 HSE/IZA workshop for their comments and remarks. We also gratefully acknowledge use of the Python/Stata template provided by von Gaudecker (2014). This paper uses Eurostat data. Eurostat has no responsibility for the results and the conclusions, which are those of the authors.

[†]Warsaw School of Economics; Institute for Structural Research (IBS), Warsaw, Poland; IZA, Bonn, Germany. E-mail: iga.magda@ibs.org.pl.

[‡]Warsaw School of Economics; Institute for Structural Research (IBS), Warsaw, Poland. E-mail jan.gromadzki@ibs.org.pl.

§IÉSEG School of Management and LEM-CNRS 9221. E-mail: s.moriconi@ieseg.fr.

1 Introduction

The issue of increasing income inequality is being publicly debated in most OECD countries. Many of the questions raised in these discussions centre around the extent to which changes in wage inequality levels are driving income differentials. Much of the existing literature on this topic has focused on firm-level determinants, and has recognised the important role of inter-industry and firm wage differentials (Abowd, Kramarz, & Margolis, 1999; Du Caju, Kátay, Lamo, Nicolitsas, & Poelhekke, 2010; Krueger & Summers, 1988; Martins, 2004). We know far less about how between-firm wage inequality levels change over time, and whether firm-level factors have contributed to the increases in wage inequality levels observed in many OECD countries. This paper contributes to this debate by investigating the workplace features that are likely to drive wage inequality and its changes. While there is extensive research on determinants of wage inequality in the US, Germany, and many other advanced countries, this paper focuses on Central and Eastern European (CEE) countries. CEE countries are interesting not only because comparative evidence on changes in their wage structure is scant, but because this geographical region has distinct cross-country patterns in wage inequality trends. In recent decades, wage inequality levels have increased in many advanced countries, but have stabilised or declined in CEE countries. There is evidence that the recent rise in wage inequality in the US was driven by increasing between-firm wage inequality. We answer the question on whether changes in between-firm inequality could also stand behind the decreases in wage inequality in the CEE.

This paper has three main objectives. First, we aim to present a clear picture of changes in the wage dispersion patterns in CEE countries between 2002 and 2014 using harmonised, comparative data from a large, linked employer-employee dataset of the European Structure of Earnings Survey (ESES). Second, we intend to analyse the role of companies in determining wage inequality, and to examine how much of this inequality is due to wage differentials arising between firms, and how much is due to within-firm wage inequality. Third, we will investigate the potential micro-level factors associated with higher or lower levels of wage inequality, and particularly the drivers of the observed decrease in wage inequality during the 2002-2014 period. We seek to gain additional insight into determinants of wage inequality by applying

recentered influence function (RIF) regressions following Firpo, Fortin, and Lemieux (2018).

Our results suggest that during the 2002-2014 period, wage inequality levels decreased in most CEE countries (especially in the Baltic states and Romania, where the initial wage inequality levels were the highest in the region), while the Czech Republic (where the wage inequality level remains the lowest in the region) was the only CEE country that experienced a (slight) increase in wage inequality. We further show that the differences in the variance of wages across the CEE countries were driven by differences in the between-firm component of wage inequality (and to a lesser extent by wage inequality within firms). We gain further insight into the determinants of wage inequality by applying recentered influence function (RIF) regressions following Firpo et al. (2018). We show that workplace characteristics were more important than personal, supply-side covariates in explaining wage inequalities. In particular, we find that among these workplace characteristics, the educational levels and ages of an employee's co-workers were as crucial as her/his occupational or sectoral affiliation. By applying standard decomposition techniques to each cross-section, we find that reductions in wage inequality in the region between 2006 and 2014 were largely attributable to changes in the individualand firm-level "coefficients", rather than to changes in "endowments". Finally, changes in the structure of the workforce (primarily the rising share of tertiary-educated workers) would have led to increases in wage inequality if the wage returns to personal, job, and firm characteristics had remained constant.

2 Literature review

Our paper is related to two main strands of literature. The first strand is comprised of studies on changes in wage inequality and their determinants. Some of the most important works on this topic include Autor, Katz, and Kearney (2006); Autor, Katz, and Kearney (2008) for the US; Fortin, Green, Lemieux, Milligan, and Riddell (2012) for Canada; Dustmann, Ludsteck, and Schönberg (2009) for Germany; and Machin (2016) for the UK. This literature has looked at the macro-level drivers of wage inequality, and has examined how trade and labour market frictions, technological change, and migration have contributed to wage inequality (Acemoglu & Autor, 2011; Akerman, Helpman, Itskhoki, Muendler, & Redding, 2013; Autor,

Manning, & Smith, 2016; Ge & Yang, 2014; Goldschmidt & Schmieder, 2017; Helpman, Itskhoki, Muendler, & Redding, 2017; Krishna, Poole, & Senses, 2012). Some studies (Autor et al., 2008; Lemieux, 2006) have taken a micro perspective, and have shown that the rise in wage inequality has been highly heterogeneous across worker characteristics, including education, age, and type of occupation. A striking feature of the steady rise in wage inequality that took place in the US from the 1970s onwards is that earnings increased more at higher percentiles of the earnings distribution, even for the same level of skill. The literature on this trend has grown considerably in recent decades, and has focused mainly on developed economies (the US and Western European countries) and some emerging economies (e.g., Brazil, China, see Alvarez, Benguria, Engbom, and Moser (2018); Appleton, Song, and Xia (2014); Messina and Silva (2017)). Only a few studies have dealt explicitly with recent developments in wage inequality in the CEE countries, which experienced a strong increase in wage dispersion during the transition to a market economy (Aristei & Perugini, 2014; Milanovic & Ersado, 2012). This phase seems to have been followed by a period in which the wage distribution was slowly compressing (Tyrowicz & Smyk, 2019); although the patterns varied across countries (Aristei & Perugini, 2012). Pryor (2014) emphasised that even after the surge in wage inequality levels during the transition, the degree of wage dispersion remained lower (around 2000s) in the CEE countries than it was in most OECD countries. A more recent study by Mysíková and Večerník (2018) compared the developments in wage inequality in Poland and the Czech Republic with those in Austria just before and after the Great Recession (2007). For the two CEE countries, they found that income polarisation did not increase, and wage inequality remained low along the gender, skill, and occupational dimensions. Our paper contributes to this literature by showing that wage inequality decreased in nine CEE countries during the 2000-2014 period.

The second strand of literature we want to contribute to focuses on firm-level drivers of wage inequality. The overall level of wage inequality can be decomposed into a within-firm component (wage differentials that arise within firms) and a between-firm component (differences in the average wages of firms). Establishment effects matter, as employers are affected differently by the various factors that shape changes in the wage distribution, such as skill-biased technological change or changes in labour market institutions, whereas workers are sorted among employers. Card, Cardoso, Heining, and Kline (2018) developed a theoretical model of wage

setting in which workers are assumed to have idiosyncratic tastes for different workplaces. An increase in firm productivity leads to an increase in individual wages because firms do not observe workers' preference shocks. Thus, an increase in the dispersion of productivity across firms will lead to an increase in levels of between-firm wage inequality. The propagation of productivity increases to wages depends directly on rent-sharing elasticity. For the UK, Bell, Bukowski, and Machin (2018) found that rent-sharing elasticity has decreased sharply since the 1980s, which has resulted in a reduction in the impact of increasing productivity differentials on wage inequality. Hence, it seems that increases in the dispersion of firm productivity can explain only a portion of the observed increases in levels of between-firm wage inequality.

The empirical studies on the contribution of the between-firm component were summarised by Card et al. (2018). Barth, Bryson, Davis, and Freeman (2016) has shown that the increased variance of average earnings across establishments can explain about half of the rise in US wage inequality during the 1970-2000 period. Handwerker and Spletzer (2016) showed that the growing contribution of establishment effects to the widening of the distribution of wages is only partially explained by changes in the distribution of occupations among workplaces. Song, Price, Guvenen, Bloom, and von Wachter (2019) used linked employer-employee data to analyse the contributions of firms to the rise in earnings inequality in the United States from 1978 to 2013. They showed that about two-thirds of the increase in the variance of (log) earnings occurred between firms. They pointed out that the heterogeneity of the composition of the workforce among firms played a major role in this development. In a similar vein, Antonczyk, Fitzenberger, and Sommerfeld (2010) found that workplace effects contributed substantially to the increase in wage inequality in Germany. Card, Heining, and Kline (2013) also looked at West Germany (between 1985 and 2009), and confirmed that increasing firmlevel heterogeneity explained a large share of the rise in wage inequality. By contrast, the role of the between-firm component was found to be relatively small in Sweden (Akerman et al., 2013).

Very few studies have touched upon the potential role of firms in shaping wage inequality in the CEE countries, though a recent World Bank report (Kelly, Liaplina, Tan, & Winkler, 2017) has suggested that in Bulgaria, Estonia, and Latvia, differences in wages across firms explain more than half of wage inequality, while differences in educational attainment or oc-

cupations across workers explain only a third or less of wage inequality.

We add three contributions to the previous literature. First, we provide new, recent evidence based on harmonised data on levels of wage inequality in the CEE countries, and on how these levels have changed since the early 2000s. Second, we investigate the contribution of the between-firm component to the levels of and the changes in overall wage inequality in nine CEE countries. Finally, we conduct a detailed analysis of the micro-level determinants of wage inequality, and of how wage inequality changed over time.

3 Data

We use repeated cross-sectional data from the European Structure of Earnings Survey (ESES) for the years 2002, 2006, 2010, and 2014. The ESES is a large matched employer–employee dataset provided by Eurostat. It includes information on workers' earnings, and on their individual-, job-, and firm-level characteristics. We use data for the following nine CEE countries: the Czech Republic, Estonia, Hungary, Lithuania, Latvia, Poland, Romania, Slovakia, and Bulgaria. We additionally draw on ESES data for the Netherlands, Norway, Sweden, and Portugal in order to compare some of our results with those of Western European countries.

While the ESES data are characterised by a high degree of cross-country comparability, we had to carry out a number of cleaning steps to guarantee that the national samples and our analyses were fully harmonised across countries. In particular, we dropped observations that referred to workers in the smallest firms (fewer than 10 workers), because comparable data were available for only some of the countries. We also dropped observations from the top and the bottom 0.1% of the hourly wage distribution to avoid outliers. In the 2002 wave of the survey, the inclusion of observations from the non-market services sector was optional. Because the 2002 data for Estonia, Latvia, Hungary, Norway, Portugal, and Sweden are incomplete, we were not able to obtain comparable datasets for all countries for that year. For this reason, we have chosen to analyse the 2002 data only for countries with datasets that included all sectors, and to provide some of the analyses for the 2006-2014 period only. The sizes of the final samples range from 26,000 observations in Lithuania in 2010 to more than two million

observations in the Czech Republic in 2014. Summary statistics across countries and years are presented in Table 1.

Table 1: Summary statistics

(a) Number of observations

year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia		
2002	151 384	1 025 637			136 240		630 357	229 879	418 835		
2006	$163 \ 139$	$1\ 917\ 859$	$114 \ 867$	$677\ 272$	115 088	$272 \ 333$	640 788	247 843	671 927		
2010	175 925	$1\ 952\ 429$	$109 \ 081$	$782\ 600$	$26\ 135$	199 266	669 313	$263\ 523$	$769\ 327$		
2014	$168 \ 661$	$2\ 153\ 093$	$112\ 771$	$771\ 657$	31 116	$153 \ 808$	709 230	$271\ 121$	869 849		
(b) Number of firms											
year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia		
2002	2 454	2 289			5 915		13 403	8 870	1 391		
2006	4596	$11\ 673$	2 628	$13\ 917$	5 305	7 641	$13\ 979$	10 778	2971		
2010	5 187	11 193	2 502	13 681	1 364	5 261	$14\ 423$	$12\ 161$	4 739		
2014	4 904	$12\ 159$	2 348	12 638	1 628	3688	14 608	$12\ 075$	5698		
			(c) N	Iean of hou	urly earnings	s (EUR)					
year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia		
2002	0.79	2.78			1.85		3.38	1.03	1.92		
2006	1.12	4.19	3.57	3.50	2.79	2.67	4.12	1.84	3.08		
2010	2.04	5.38	4.90	4.32	3.84	3.95	5.18	2.52	4.70		
2014	2.35	5.30	5.79	4.45	4.21	4.45	5.63	2.76	5.29		

Data: European Structure of Earnings Survey.

Panel C in Table 1 summarises the distribution and the changes in average hourly gross wages in the CEE countries between 2002 and 2014. We can see that wages were lowest in the late EU entrants, Romania and Bulgaria; and were, on average, twice as high in the Czech Republic, Estonia, Slovakia, and Poland, where they exceeded five euros per hour in 2014. All of the CEE countries recorded substantial increases in average earnings over the analysed period. It should be noted, however, that in most of these countries (particularly those outside of the Eurozone or currency board systems), these increases reflect not only changes in real wages, but also the strengthening of currencies.

Our baseline measure of wages is hourly gross wages, expressed in euros. This measure includes earnings, earnings related to overtime, special payments for shift work, social security contributions, and taxes; but it does not include annual bonuses and allowances not paid at each period. We use the variance of log hourly wages as our measure of wage inequality. This

is a common statistical measure of dispersion, and, unlike other popular measures of inequality such as the Gini coefficient and the 90-10 wage gap, the variance is additively decomposable into the between-firm component and the within-firm component. We use log wages because the variance of log wages is a mean independent measure (unlike the variance of wages, see Atkinson (1970)). The trends in changes in wage inequality based on Gini and Atkinson measures are very similar to the trends in changes in the variance of wages (Table A.1 and A.2 in the Appendix).

4 Methodological approach

Our analysis is carried out in two main steps. First, we analyse levels of and changes in wage inequality in each country over time, and determine the respective contributions of the within-firm component and the between-firm component to total wage inequality. In the second step, we investigate the determinants of the levels of and the changes in wage inequality over time.

We start the first part of our analysis by normalising wages for each year and country, such that individual wages are defined as $\hat{w}_{it} = log(100 * \frac{w_{it}}{\bar{w}_t})$, where w_{it} denotes individual hourly wage and \bar{w}_t is average hourly wage in a given year t. We then calculate the variance of log wages for each country and each year.

For each country, we analyse to what extent the level of overall wage inequality and its changes are determined by the within-firm and the between-firm wage inequality, following the methodology applied by Lazear and Shaw (2009) and Barth et al. (2016). We decompose the overall variance of normalized log wages $(Var(\hat{w}_{it}))$ into the within-firm component (Var(within)), and the between-firm component (Var(between)). Thus, the variance decomposition of normalized log wages, $Var(\hat{w}_{it}) = Var(within) + Var(between)$, is given by the following equation:

$$Var(\hat{w}_{it}) = \frac{1}{N_t} \sum_{i} (\hat{w}_{it} - \hat{w}_t)^2 = \frac{1}{N_t} \sum_{j} \sum_{i \in j} (\hat{w}_{it} - \hat{w}_{jt})^2 + \frac{1}{N_t} \sum_{j} N_{jt} (\hat{w}_{jt} - \hat{w}_t)$$
(1)

where $\hat{w_t}$ is the average normalised log wage in year t in a given country, $\hat{w_{jt}}$ denotes the average normalised log wage for workers in firm j in year t, N_t is the number of all workers in year t and N_{jt} is the number of workers in firm j in year t.

We also repeat the above analysis, but while looking at *residual* wage inequality; that is, the wage inequality that remains after the workers' and workplaces' observable characteristics are accounted for. First, for each year and country, we estimate a standard Mincerian wage equation of the following form:

$$\hat{w}_i = \beta_0 + \beta_1 X_i + \beta_2 X_j + \epsilon_i \tag{2}$$

where X_i is a set of individual and job characteristics, such as age, gender, education, occupation, type of contract; and X_j is a set of firm characteristics, such as sector and the enterprise's forms of economic and financial control. We also account for peer effects (share of female workers, share of workers with tertiary education, share of workers aged 50 or older, and share of workers with tenure of less than two years) to capture more firm heterogeneity (Card & De La Rica, 2006). Next, we calculate the residuals from the estimated model and analyse the variance of the obtained residuals. In other words, the residual variance is the variance of the unexplained component of wages.

While the exercises above provide us with a broad picture of the aggregate wage dispersion trends, they give us little insight into the determinants of these trends. Several recent studies have tried to distinguish the individual determinants of wage inequality (associated with gender, age, job experience) from job and firm characteristics (Barth et al., 2016; Handwerker & Spletzer, 2016). To add to this line of research, we estimate in the second step the variance of wages as a function of worker and firm characteristics (the same characteristics as in the Mincerian equation above). To this end, we use the recentered influence function regression, which calculates the partial effect of a small change in the distribution of covariates on the distributional statistic of interest (Firpo et al., 2018), which in our case is the variance. In other words, we calculate the recentered influence function value for each observation according to the following formula:

$$RIF(\hat{w}_{it}) = (\hat{w}_{it} - \hat{w}_t)^2 \tag{3}$$

Next, we estimate the following model for each country and each year:

$$RIF(\hat{w}_{it}) = \beta_0 + \beta_1 X_{it} + \beta_2 X_{it} + \epsilon_{it} \tag{4}$$

The notation is the same as in Equation (2). We obtain the estimated partial effects of small changes in the distribution of selected variables on the variance of normalised log wages for each country and for each year. Thus, we can observe differences in the magnitude of the effects over time. Furthermore, to gain a better understanding of the determinants of changes in inequality over time, we use the standard Blinder-Oaxaca (BO) method to decompose the changes in the variance of log wages into changes in endowments, coefficients from the RIF regression β_0 , β_1 , β_2 and their interactions. The BO framework is conventionally used to decompose changes in the mean, but the Fortin et al. (2018) extension makes it possible to perform a BO type of decomposition on the variance. The decomposition is given by the following equation:

$$Var(w_{i,\hat{2}014}) - Var(w_{i,\hat{2}006}) = \beta_{2006}(\bar{X}_{2014} - \bar{X}_{2006})$$

$$+(\beta_{2014} - \beta_{2006})\bar{X}_{2006}$$

$$+(\bar{X}_{2014} - \bar{X}_{2006}) * (\beta_{2014} - \beta_{2006})$$
(5)

The first term reflects changes in the variance driven by changes in the covariates ($\bar{X}_{2014} - \bar{X}_{2006}$), assuming that the coefficients remained at the 2006 level. The second term captures the change in the coefficients ($\beta_{2014} - \beta_{2006}$), assuming that the covariates remained at the 2006 level. The third term is the residual; i.e., it is an interaction term that accounts for the fact that differences in endowments and coefficients changed simultaneously.

5 Results

5.1 Overall wage dispersion and its changes

Over the study period, levels of wage inequality varied substantially across the CEE countries (Table 2). In 2014, the lowest wage inequality levels were observed in the Czech Republic and Slovakia (where the variance of log wages amounted to 0.23), while the highest wage inequality

Table 2: Variance of log wages

year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia
2002	0.34	0.19			0.37		0.34	0.42	0.25
2006	0.33	0.21	0.28	0.29	0.36	0.46	0.36	0.42	0.24
2010	0.33	0.23	0.28	0.30	0.31	0.34	0.31	0.38	0.23
2014	0.33	0.23	0.27	0.29	0.27	0.31	0.32	0.36	0.23

Data: European Structure of Earnings Survey.

level was observed in Romania (0.36). When we compare the wage inequality levels in the CEE countries to those in the more advanced European countries (Table A.7), we see that the levels in the Czech Republic and Slovakia were similar to the level in the Netherlands, and that the high variance of wages in Romania corresponded to the level of wage inequality in Portugal (where wages were the most dispersed among EU countries, if measured with the D9/D1 decile dispersion (Eurostat, 2014)). The average level of the variance of log wages observed in the CEE countries was around three times higher than it was in the two Scandinavian countries in our study sample (Norway and Sweden). All in all, we find that wages were, on average, more unequal in the CEE countries than in the older EU member states; a result that is confirmed by the Eurostat D9/D1 dispersion statistics.

There were substantial changes in the wage inequality patterns in the CEE countries between the early to mid-2000s and 2014 (Table 2). These changes included a slight increase in the level of wage inequality in the Czech Republic, the CEE country that had the lowest initial level; there, the variance of log wages increased from 0.19 in 2002 to 0.23 in 2014. Over the same period, the levels of wage dispersion decreased in the CEE countries that had high initial wage inequality levels. The variance of log wages decreased the most in Latvia (from 0.46 in 2006 to 0.31 in 2014), Romania (from 0.42 in 2006 to 0.36 in 2014), and Lithuania (from 0.37 in 2002 to 0.27 in 2014). Wage inequality levels remained stable in Bulgaria, Estonia, Hungary, and Slovakia. The data suggest that the sharpest declines in wage inequality levels occurred after 2006 (between 2006 and 2010, in particular), possibly as a result of post-crisis adjustments. When we look at the 2002-2006 sub-period (during which seven of the nine CEE countries we analyse entered the European Union), we observe hardly any changes in the overall wage dispersion patterns – though it should be noted that we have information for only a few of the CEE countries in this period. In sum, the differences in the levels of wage dispersion among

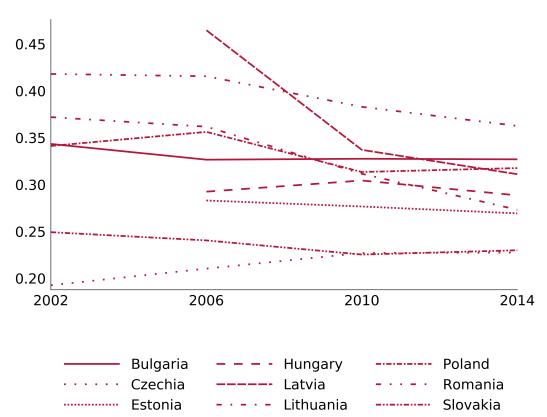


Figure 1: Overall variance of log wages: 2002-2014

Note: Figure shows variance of normalised log gross hourly wages.

Table 3: Contribution of the within component to level and change in variance of log wages

	Level 2006	Change 2006-2014
	(percent)	(percent)
Estonia	60	70
Czechia	55	16
Slovakia	50	19
Lithuania	49	29
Hungary	48	25
Latvia	47	46
Poland	44	35
Romania	36	56
Bulgaria	29	51

Note: the first column shows the contribution of the within-firm component to the level of the variance of log wages in 2006 ($\frac{Var(within_{2006})}{Var(w_i,2006)}$). The unreported between component is 100% minus the reported within component. The second column shows the contribution of the within component to the change of the variance ($\frac{|\Delta Var(within)|}{(|\Delta Var(within)|+|\Delta Var(between)|)}$).

Data: European Structure of Earnings Survey.

the CEE countries narrowed considerably in the 2000s and the early 2010s (see Figure 1).

5.2 The role of between- and within-firm wage inequality

The overall wage inequality at the country level arises from the dispersion in average wages between firms, and from the inequality in wages that exists within firms. Thus, as we discussed in the methodological section, we can decompose overall wage inequality into two components: within-firm and between-firm wage inequality. Tables 3 and 4 summarise the results of such an exercise.

The CEE countries differed primarily with respect to between-firm wage inequality, as this component explained most of the existing differences in the total wage inequality levels between countries (see Table 4). In 2014, within-firm wage inequality varied from 0.11 in the Czech Republic to 0.14 in Estonia, Hungary, Latvia, and Poland; while between-firm wage inequality ranged from 0.11 in the Czech Republic and Slovakia to 0.24 in Romania. Thus, between-firm wage inequality was the main contributor to differences in the levels of total wage inequality among the CEE countries. The countries with high levels of total wage inequality

Table 4: Variance decomposition

(a) Within-firm variance of log wages

year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia	
2002	0.10	0.11			0.18		0.15	0.16	0.12	
2006	0.09	0.12	0.17	0.14	0.18	0.22	0.16	0.15	0.12	
2010	0.10	0.11	0.15	0.14	0.18	0.16	0.15	0.14	0.11	
2014	0.11	0.11	0.14	0.14	0.15	0.15	0.14	0.12	0.12	

Data: European Structure of Earnings Survey.

(b) Between-firm variance of log wages

year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia
2002	0.24	0.09			0.19		0.19	0.26	0.13
2006	0.23	0.09	0.11	0.15	0.18	0.25	0.20	0.26	0.12
2010	0.22	0.12	0.13	0.16	0.14	0.18	0.17	0.24	0.11
2014	0.22	0.12	0.12	0.15	0.12	0.17	0.18	0.24	0.11

Data: European Structure of Earnings Survey.

(Romania, Bulgaria) also had much higher levels of between-firm wage inequality than the countries with low levels of total wage inequality (the Czech Republic, Slovakia), whereas the levels of within-firm wage inequality in these two groups of countries were more similar. The share of within-firm wage inequality in total wage inequality varied from 33% in Bulgaria to 55% in Lithuania (in 2014). These patterns appear to be similar to those observed in the four Western European countries we analyse: in the Netherlands, Norway, Portugal, and Sweden, the levels of between-firm wage inequality varied more than the levels of within-firm wage inequality.

In the CEE countries, between-firm wage inequality was both higher and more dispersed than within-firm wage inequality in the early to mid-2000s as well. Among the CEE countries for which 2002 data are available, within-firm wage inequality varied in 2002 from 0.11 in the Czech Republic to 0.18 in Lithuania, while the variance of wages between firms in 2002 ranged from a low of 0.09 in the Czech Republic to 0.26 in Romania. Thus, even in the early 2000s, between-firm wage inequality accounted for the majority of the total wage inequality in all of the CEE countries except for Estonia and the Czech Republic. It is important to note, however, that there was no single pattern of changes over time. For instance, Romania saw a decrease in both within-firm and between-firm wage inequality, but the decline was greater in the former component than in the latter. By contrast, in Lithuania, the percentage decrease in the between-firm variance of wages was higher than the decline in the variance of

wages within firms. In most of the CEE countries, both within-firm and between-firm wage inequality decreased over the study period, but the between-firm component was the main driver of the changes in wage inequality levels between 2006-2014 in most CEE countries (see Table 3). In Romania, Bulgaria, and Estonia, the within-firm component contributed most to the changes in the overall wage inequality.

In terms of both the absolute level and the share of total wage inequality, between-firm wage inequality was generally higher in countries with higher levels of the overall variance of wages. Interestingly, this was also the case in the Western European countries (see Table A.7 in the Appendix, Card et al. (2013) for Germany and Barth et al. (2016) for the US). In both Bulgaria and Portugal, between-firm wage inequality explained around two-thirds of total wage inequality. This component played a smaller role in the Netherlands, where the share of between-firm wage inequality was similar to the average level observed among the CEE countries; and it played an even smaller role in Sweden, where between-firm wage inequality accounted for only one-third of total wage inequality.

5.3 Residual variance

We now check whether our findings are robust after controlling for observed worker and firm characteristics. We estimate the Mincerian wage equation (equation (2)) and then calculate variance of the residuals, and decompose this residual variance into within-firm and betweenfirm components.

Residual wage inequality accounted for around 40-50% of overall wage inequality (see Table 5), which means that the observable characteristics of workers and firms explained around one-half of wage inequality in the CEE countries. Moreover, when we look at residual wage inequality rather than total wage inequality, we see that the share of the within-firm variance is much higher. Within-firm residual wage inequality explained 42% of total residual wage inequality in Bulgaria and Romania, 60-70% in most other CEE countries, and a maximum value of 75% in Slovakia. The share of within-firm residual wage inequality was also higher in countries with lower levels of overall wage inequality, and was lower in high-inequality countries like

Table 5: Residual variance decomposition

(a) Total residual variance of log wages

year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia
2002	0.18	0.10			0.22		0.15	0.21	0.14
2006	0.17	0.10	0.14	0.14	0.22	0.31	0.15	0.21	0.12
2010	0.16	0.11	0.12	0.13	0.15	0.20	0.14	0.19	0.11
2014	0.16	0.10	0.13	0.13	0.14	0.18	0.14	0.18	0.12

Note: Table shows the decomposition of residual variance of normalised log gross hourly wages. The residuals are calculated from the estimated Mincerian wage equation that includes worker and firm characteristics.

Data: European Structure of Earnings Survey.

(b) Within-firm residual variance of log wages

year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia
2002	0.06	0.05			0.11		0.07	0.09	0.07
2006	0.05	0.06	0.09	0.07	0.11	0.14	0.08	0.08	0.07
2010	0.06	0.06	0.07	0.07	0.09	0.10	0.08	0.07	0.06
2014	0.06	0.06	0.09	0.08	0.08	0.10	0.08	0.07	0.07

Note: Table shows the decomposition of residual variance of normalised log gross hourly wages. The residuals are calculated from the estimated Mincerian wage equation that includes worker and firm characteristics.

Data: European Structure of Earnings Survey.

(c) Between-firm residual variance of log wages

year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia
2002	0.12	0.04			0.11		0.08	0.12	0.07
2006	0.11	0.04	0.05	0.07	0.11	0.17	0.07	0.12	0.06
2010	0.10	0.05	0.05	0.06	0.06	0.10	0.06	0.11	0.05
2014	0.10	0.04	0.05	0.05	0.05	0.09	0.06	0.11	0.05

Note: Table shows the decomposition of residual variance of normalised log gross hourly wages. The residuals are calculated from the estimated Mincerian wage equation that includes worker and firm characteristics.

Data: European Structure of Earnings Survey.

Bulgaria and Romania, where between-firm (residual) wage inequality was relatively high. These patterns are in line with those observed for the overall wage levels. Thus, while a large share of wage inequality was attributable to observable heterogeneity among workers, it appears that various levels of firm-specific wage premia drove between-firm wage inequality, as well as the differences in the role and the size of this component across the CEE.

5.4 Microeconomic determinants of wage inequality and its changes over time

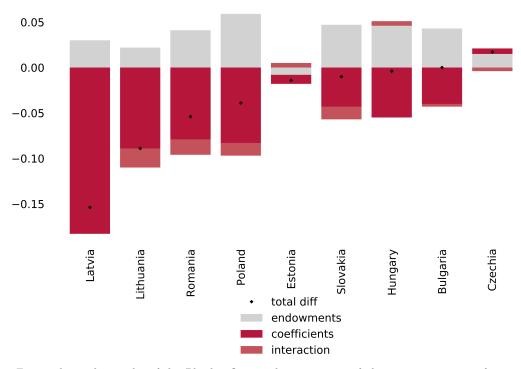
A number of micro-level factors affect the degree of wage dispersion among workers. Human capital and skills determine differences in productivity levels, which are reflected in differences in wage levels. Job characteristics, such as the type of contract and the occupation, also affect wages. Moreover, it is likely that in the CEE countries, increased flexibility in the use of non-standard employment contracts (Broughton et al., 2006) and job polarisation trends

(Hardy, Keister, & Lewandowski, 2016) have resulted in changes in the wage distribution. There are also firm-level characteristics that determine pay setting schemes, such as sectoral affiliation (Barth et al. (2016)). Peer effects, such as the share of workers in a company who are older or female, may also influence the level of wages and their distribution. Using the RIF regression approach presented in the methodology section, we aim to capture the potential contributions of a set of individual-, job-, and firm-level characteristics to the observed levels of wage inequality. We also decompose changes over time in order to show how the roles these characteristics played changed over time and across countries.

Four interesting observations stand out when we look at the results of the RIF regressions (Tables A.9-A.13). First, in all of the countries studied, we see a strong relationship between the occupation in which an individual works and his/her contribution to wage inequality. In particular, workers in managerial positions (ISCO 1) were much more likely to contribute to wage inequality than workers in sales and services. Bulgaria and Romania again appear to be outliers, as in these countries professionals (ISCO 2) also contributed positively to wage inequality. Second, we observe that sectoral affiliation was an important determinant of wage inequality, with financial and insurance services contributing the most (and manufacturing contributing the least) to increased levels in all countries. Third, we find that peer effects matter a lot: in all of the countries and years analysed, workplaces with large shares of tertiary-educated workers contributed substantially to increased wage inequality, while workplaces with large shares of older workers contributed to decreased wage inequality, all other things being equal. At the same time, we see no obvious link between a worker's age and educational attainment and his/her contribution to wage inequality. Fourth, we find that public sector workplaces had lower levels of wage inequality.

Turning to the time dimension, we observe that the magnitude of the effects changed little over time. In most of the countries studied, the positive effect of age on the variance of log wages increased over time. This change was likely related to the ageing of the workforce and increasing employment rates among older workers (whose wages tended to be more unequal). In most countries, the correlation between managerial occupation and wage inequality was strengthened or remained strong (Latvia, Poland, Estonia). All of the countries experienced

Figure 2: Blinder-Oaxaca decomposition of the changes in the variance of log wages between 2006 and 2014



Note: Figure shows the results of the Blinder-Oaxaca decomposition of changes in variance of normalised log gross hourly wages between 2006 and 2014 based on RIF regressions.

Data: European Structure of Earnings Survey.

a decreasing effect of tertiary education on the variance of wages.

In order to better capture changes in the determinants of wage inequality over time, we decompose the above estimates using a Blinder-Oaxaca approach, as we discussed in the methodology section. This approach allows us to distinguish between the impact of changes in endowments (i.e., the structure of workers with respect to their personal characteristics and the characteristics of their workplaces) and coefficients (i.e., returns to these characteristics) on the change in the variance of log wages between 2006 and 2014. The analysis is performed for each country separately. We find that changes in endowments – that is, changes in the structure of workers with respect to their own characteristics and those of their firms – contributed to increases in wage inequality, while changes in coefficients contributed to decreases in inequality (see Figure 2). Thus, the overall observed pattern of decreasing wage inequality resulted from larger

changes in coefficients than in endowments. The Czech Republic was the only country where changes in endowments led to a (slight) increase in wage inequality. In Bulgaria and Hungary, inequality-increasing changes in endowments were offset by changes in returns, resulting in stable wage inequality levels. The largest changes in the structure of workers were in Poland, and these changes would have led to increased inequality had they not been offset by substantial decreases in coefficients. The largest inequality-decreasing changes in coefficients were in Latvia, where the variance of wages decreased substantially.

The detailed results of the BO decomposition provide us with interesting insights into the micro-determinants of changes in inequality (Tables A.14-A.18 in the Appendix). First, we see that the decline in returns to tertiary education was an important factor associated with decreasing wage inequality. In Poland, Latvia, Lithuania, and Hungary this decline in returns helped to offset the growing share of tertiary-educated workers and co-workers (who contributed to increasing wage inequality, all other things being equal). Second, the returns to age became more inequality-increasing in all of the countries except for Poland (see Table A.16). Interestingly, the changes in the returns to the sectoral affiliation of workers were rather small. Finally, in all of the countries that experienced significant decreases in wage inequality (except Lithuania), we observe that changes in the intercept contributed substantially to this trend; these were likely linked to institutional adjustments. This finding suggests that in most of the CEE countries studied, the decrease in wage inequality was partly attributable to factors that were unobserved in our data, and were most likely regulatory changes related to the Great Recession and its aftermath.

Since public sector employment constituted an important share of employment in the CEE countries and contributed to decreases in wage inequality in our study period, we decided to run an additional analysis that included private sector employees only. The results show that in the private sector, as in the total economy, changes in coefficients contributed to decreases in inequality, and changes in endowments contributed to increases in inequality in all of the CEE countries except the Czech Republic. However, the impact of changes in the intercept was much greater in the private sector than in the full sample, as the intercept was the factor that made the largest contribution to the changes in the levels of wage inequality. In other

respects, however, there were no significant differences in the results of the two RIF regressions (see Tables A.19-A.23 in the Appendix) and the Blinder-Oaxaca decomposition (see Tables A.24-A.28).

6 Conclusions

Wage inequality decreased in most Central and Eastern European countries between the early 2000s and the mid-2010s. The Czech Republic, which still has the lowest level of wage inequality in the region, was the only CEE country that saw a slight increase in wage inequality during this period. Thus, the trends observed in the CEE countries stand in stark contrast to the patterns of increasing wage inequality reported in many Western countries. As the decreases in wage inequality in the CEE countries appear to have been concentrated in the 2006-2014 period, the question of what role the Great Recession and the post-crisis adjustments played in these patterns arises.

Our analysis of the determinants of the decreases in wage inequality in the CEE revealed that this trend was primarily driven by falling returns to individual- and firm-level characteristics, and to tertiary education in particular. It is likely that the decreases in wage inequality levels would have been greater if the workforce endowments – especially the increases in shares of university-educated employees – had not changed. Still, a sizeable share of the observed changes resulted from trends that are unexplained, and that likely reflect changes in institutional settings.

We contribute to the ongoing debate on the role firms play in shaping wage inequality with our finding that in both the early 2000s and 2014, wage inequality in CEE was greater between firms than within them. After we accounted for the characteristics of workers and firms and calculated residual wage inequality, we found that the role of the between-firm component was diminished, but still explained most of the cross-country differences in wage inequality. It thus appears that wage inequality was driven to a large extent by where an individual was working, and with whom s/he was working. Workplace-specific wage premia were linked not only to occupation and sectoral affiliation, but to co-workers' characteristics. Managers working in

the financial services firms with young, tertiary-educated peers contributed most to increasing wage inequality in all of the CEE countries studied.

We also found that among the CEE countries in our study sample, Bulgaria and Romania are interesting cases that merit further in-depth investigation. Compared to the other countries in the region, these two countries have much higher levels of wage inequality, as well as much higher levels and shares of between-firm wage inequality. These findings suggest that Bulgarian and Romanian firms are more heterogeneous in terms of their productivity levels. Further research is needed to determine whether these countries differ from other countries in the region because they underwent economic restructuring more recently, have lower levels of economic development, and/or entered the EU later.

References

- Abowd, J. M., Kramarz, F., & Margolis, D. N. (1999). High wage workers and high wage firms. *Econometrica*, 67(2), 251–333. doi:10.1111/1468-0262.00020
- Acemoglu, D., & Autor, D. H. (2011). Chapter 12 skills, tasks and technologies: Implications for employment and earnings. In D. Card & O. Ashenfelter (Eds.), (Vol. 4, pp. 1043–1171). Handbook of Labor Economics. doi:10.1016/S0169-7218(11)02410-5
- Akerman, A., Helpman, E., Itskhoki, O., Muendler, M.-A., & Redding, S. (2013). Sources of wage inequality. *American Economic Review*, 103(3), 214–219. doi:10.1257/aer.103.3.214
- Alvarez, J., Benguria, F., Engbom, N., & Moser, C. (2018). Firms and the decline in earnings inequality in brazil. *American Economic Journal: Macroeconomics*, 10(1), 149–189. doi:10.1257/mac.20150355
- Antonczyk, D., Fitzenberger, B., & Sommerfeld, K. (2010). Rising wage inequality, the decline of collective bargaining, and the gender wage gap. *Labour Economics*, 17(5), 835–847. doi:10.1016/j.labeco.2010.04.008
- Appleton, S., Song, L., & Xia, Q. (2014). Understanding urban wage inequality in china 1988–2008: Evidence from quantile analysis. World Development, 62, 1–13. doi:10.1016/j.worlddev.2014.04.005
- Aristei, D., & Perugini, C. (2012). Inequality and reforms in transition countries. *Economic Systems*, 36(1), 2–10. doi:10.1016/j.ecosys.2011.09.001
- Aristei, D., & Perugini, C. (2014). Speed and sequencing of transition reforms and income inequality: A panel data analysis. *Review of Income and Wealth*, 60(3), 542–570. doi:10. 1111/roiw.12090

- Atkinson, A. B. (1970). On the measurement of inequality. *Journal of Economic Theory*, 2(3), 244–263.
- Autor, D. H., Katz, L. F., & Kearney, M. S. (2006). The polarization of the u.s. labor market. American Economic Review, 96(2), 189–194. doi:10.1257/000282806777212620
- Autor, D. H., Katz, L. F., & Kearney, M. S. (2008). Trends in u.s. wage inequality: Revising the revisionists. *Review of Economics and Statistics*, 90(2), 300–323. doi:10.1162/rest. 90.2.300
- Autor, D. H., Manning, A., & Smith, C. L. (2016). The contribution of the minimum wage to us wage inequality over three decades: A reassessment. *American Economic Journal:* Applied Economics, 8(1), 58–99. doi:10.1257/app.20140073
- Barth, E., Bryson, A., Davis, J. C., & Freeman, R. (2016). It's where you work: Increases in the dispersion of earnings across establishments and individuals in the united states. *Journal of Labor Economics*, 34 (S2), 244–263. doi:10.1086/684045
- Bell, B., Bukowski, P., & Machin, S. (2018). Rent Sharing and Inclusive Growth (CEP Discussion Papers No. dp1584). Centre for Economic Performance, LSE. Retrieved from https://ideas.repec.org/p/cep/cepdps/dp1584.html
- Broughton, A., Green, M., Rickard, C., Swift, S., Eichhorst, W., Tobsch, V., ... Tros, F. (2006). Precarious employment in europe: Country case studies. European Parliament.
- Card, D., Cardoso, A. R., Heining, J., & Kline, P. (2018). Firms and labor market inequality: Evidence and some theory. *Journal of Labor Economics*, 36(S1), 13–70. doi:10.1086/694153
- Card, D., & De La Rica, S. (2006). Firm-level contracting and the structure of wages in spain. Industrial and Labor Relations Review, 59(4), 573–592. doi:10.1177/001979390605900403
- Card, D., Heining, J., & Kline, P. (2013). Workplace heterogeneity and the rise of west german wage inequality. The Quarterly Journal of Economics, 128(3), 967–1015. doi:10.1093/qje/qjt006
- Du Caju, P., Kátay, G., Lamo, A., Nicolitsas, D., & Poelhekke, S. (2010). Inter-industry wage differentials in EU countries: What do cross-country time varying data add to the picture? *Journal of the European Economic Association*, 8(2-3), 478–486. doi:10.1111/j.1542-4774.2010.tb00518.x
- Dustmann, C., Ludsteck, J., & Schönberg, U. (2009). Revisiting the german wage structure. The Quarterly Journal of Economics, 124(2), 843–881. doi:10.1162/qjec.2009.124.2.843
- Eurostat. (2014). D9 d1 dispersion ratio in the eu member states. Retrieved September 21, 2018, from https://ec.europa.eu/eurostat/statistics-explained/index.php?title=File: D9 D1 dispersion ratio in the EU Member States, 2014 update.png
- Firpo, S., Fortin, N., & Lemieux, T. (2018). Decomposing wage distributions using recentered influence function regressions. *Econometrics*, 6. doi:10.3390/econometrics6020028

- Fortin, N., Green, D. A., Lemieux, T., Milligan, K., & Riddell, W. C. (2012). Canadian inequality: Recent developments and policy options. *Canadian Public Policy*, 38(2), 121–145. doi:10.3138/cpp.38.2.121
- Gaudecker, H.-M. von. (2014). Templates for reproducible research projects in economics. https://github.com/hmgaudecker/econ-project-templates.
- Ge, S., & Yang, D. T. (2014). Changes In China'S Wage Structure. *Journal of the European Economic Association*, 12(2), 300–336. doi:10.1111/jeea.12072
- Goldschmidt, D., & Schmieder, J. F. (2017). The rise of domestic outsourcing and the evolution of the german wage structure. The Quarterly Journal of Economics, 132(3), 1165–1217. doi:10.1093/qje/qjx008
- Handwerker, E. W., & Spletzer, J. R. (2016). The role of establishments and the concentration of occupations in wage inequality. In *Inequality: Causes and consequences* (Chap. 5, pp. 167–193). doi:10.1108/S0147-912120160000043013
- Hardy, W., Keister, R., & Lewandowski, P. (2016). Educational upgrading, structural change and the task composition of jobs in europe. *The Economics of Transition*, 26(2), 201–231. doi:10.1111/ecot.12145
- Helpman, E., Itskhoki, O., Muendler, M.-A., & Redding, S. (2017). Trade and Inequality: From Theory to Estimation. *The Review of Economic Studies*, 84(1), 357–405. doi:10. 1093/restud/rdw025
- Kelly, T., Liaplina, A., Tan, S. T., & Winkler, H. (2017). Reaping digital dividends: Leveraging the internet for development in europe and central asia. doi:10.1596/978-1-4648-1025-1
- Krishna, P., Poole, J. P., & Senses, M. Z. (2012). Trade, Labor Market Frictions, and Residual Wage Inequality across Worker Groups. *American Economic Review*, 102(3), 417–423. doi:10.1257/aer.102.3.417
- Krueger, A. B., & Summers, L. H. (1988). Efficiency wages and the inter-industry wage structure. *Econometrica*, 56(2), 259–293. doi:10.2307/1911072
- Lazear, E. P., & Shaw, K. L. (2009). The structure of wages: An international comparison. doi:10.7208/chicago/9780226470511.001.0001
- Lemieux, T. (2006). Increasing residual wage inequality: Composition effects, noisy data, or rising demand for skill? *American Economic Review*, 96(3), 461–498. doi:10.1257/aer. 96.3.461
- Machin, S. (2016). Rising wage inequality, real wage stagnation and unions. In *Inequality:* Causes and consequences (Chap. 9, pp. 329–354). doi:10.1108/S0147-912120160000043017
- Martins, P. S. (2004). Industry wage premia: evidence from the wage distribution. *Economics Letters*, 83(2), 157–163. doi:10.1016/j.econlet.2003.11.002
- Messina, J., & Silva, J. (2017). Wage inequality in latin america: Understanding the past to prepare for the future. doi:10.1596/978-1-4648-1039-8

- Milanovic, B., & Ersado, L. (2012). Reform and inequality during the transition: An analysis using panel household survey data, 1990–2005. In *Economies in transition* (pp. 84–108). doi:10.1057/9780230361836 4
- Mysíková, M., & Večerník, J. (2018). Personal Earnings Inequality and Polarization: The Czech Republic in Comparison with Austria and Poland. *Eastern European Economics*, 56(1), 57–80. doi:10.1080/00128775.2017.1402685
- Pryor, F. L. (2014). A note on income inequality in east and central europe. *Comparative Economic Studies*, 56(1), 42–51. doi:10.1057/ces.2013.31
- Song, J., Price, D. J., Guvenen, F., Bloom, N., & Wachter, T. von. (2019). Firming up inequality. The Quarterly Journal of Economics, 134(1), 1–50. doi:10.1093/qje/qjy025
- Tyrowicz, J., & Smyk, M. (2019). Wage inequality and structural change. *Social Indicators Research*, 141(2), 503–538. doi:10.1007/s11205-018-1846-y

A Annex

Table A.1: Gini coefficient

year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia
2002	0.34	0.26			0.36		0.34	0.38	0.30
2006	0.35	0.27	0.31	0.32	0.35	0.39	0.35	0.38	0.30
2010	0.35	0.28	0.30	0.33	0.32	0.34	0.33	0.37	0.28
2014	0.36	0.28	0.30	0.32	0.31	0.33	0.34	0.37	0.29

Data: European Structure of Earnings Survey.

Table A.2: Atkinson index ($\epsilon = 2$)

year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia
2002	0.29	0.18			0.31		0.29	0.34	0.23
2006	0.28	0.19	0.25	0.26	0.30	0.37	0.30	0.34	0.22
2010	0.28	0.21	0.24	0.26	0.27	0.29	0.27	0.32	0.21
2014	0.28	0.21	0.24	0.25	0.24	0.27	0.27	0.31	0.21

Data: European Structure of Earnings Survey.

Table A.3: Variance of log wages: manufacturing and construction

year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia
2002	0.38	0.19			0.34		0.30	0.36	0.22
2006	0.31	0.18	0.25	0.31	0.35	0.45	0.31	0.33	0.23
2010	0.29	0.19	0.24	0.29	0.28	0.31	0.25	0.32	0.20
2014	0.30	0.19	0.22	0.25	0.24	0.29	0.26	0.28	0.20

Table A.4: Variance of log wages: market services

year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia
2002	0.43	0.23			0.44		0.37	0.58	0.31
2006	0.40	0.29	0.33	0.39	0.39	0.52	0.38	0.52	0.31
2010	0.40	0.31	0.33	0.36	0.35	0.40	0.35	0.48	0.29
2014	0.40	0.31	0.32	0.33	0.32	0.38	0.36	0.46	0.28

Data: European Structure of Earnings Survey.

Table A.5: Variance of log wages: non-market services

year	Bulgaria	Czechia	Estonia	Hungary	Lithuania	Latvia	Poland	Romania	Slovakia
2002	0.20	0.14			0.35		0.34	0.36	0.18
2006	0.26	0.16	0.28	0.21	0.33	0.42	0.32	0.41	0.18
2010	0.24	0.16	0.25	0.26	0.30	0.29	0.30	0.36	0.17
2014	0.24	0.17	0.25	0.27	0.26	0.26	0.29	0.35	0.19

Data: European Structure of Earnings Survey.

Table A.6: Summary statistics

(a) Number of observations

year	Netherlands	Norway	Portugal	Sweden
2002	53 405	518 025		
2006	$64\ 275$	$869\ 486$	$62\ 438$	$273\ 620$
2010	91 531	$1\ 257\ 334$	$87\ 516$	$272\ 389$
2014	79 906	$1\ 346\ 013$	$60\ 977$	$252\ 413$
	(b)	Number of f	irms	
year	Netherlands	Norway	Portugal	Sweden

year	Netherlands	Norway	Portugal	Sweden
2002	1 550	10 179		
2006	2 068	17589	3 346	4733
2010	2 500	$28\ 897$	$4\ 449$	4918
2014	2 180	$31\ 073$	2.852	3 650
	(c) Mean of	hourly ear	nings (EUR)	

year	Netherlands	Norway	Portugal	Sweden
2002	15.97	22.07		
2006	15.90	23.93	7.20	15.89
2010	17.96	28.10	8.07	17.63
2014	18.84	30.96	7.70	20.52

Table A.7: Variance decomposition

(a) Variance of log wages

year	Netherlands	Norway	Portugal	Sweden
2002	0.21			
2006	0.28	0.12	0.42	0.09
2010	0.27	0.12	0.40	0.09
2014	0.23	0.12	0.35	0.09

Data: European Structure of Earnings Survey.

(b) Within-firm variance of log wages

year	Netherlands	Norway	Portugal	Sweden
2002	0.13			
2006	0.18	0.06	0.16	0.06
2010	0.17	0.06	0.16	0.06
2014	0.11	0.06	0.14	0.06

Data: European Structure of Earnings Survey.

(c) Between-firm variance of log wages

year	Netherlands	Norway	Portugal	Sweden
2002	0.08			
2006	0.10	0.05	0.26	0.03
2010	0.10	0.05	0.24	0.03
2014	0.12	0.06	0.20	0.03

Data: European Structure of Earnings Survey.

Table A.8: Contribution of the within component to variance of log wages

	Level 2006	Change 2006-2014
	(percent)	(percent)
Netherlands	63	77
Norway	54	10
Sweden	66	39
Portugal	39	26

Note: the first column shows the contribution of the within-firm component to the level of the variance of log wages in 2006 ($\frac{Var(within_{2006})}{Var(w_i, 2006)}$). The unreported between component is 100% minus the reported within component. The second column shows the contribution of the within component to the change of the variance ($\frac{|\Delta Var(within)|}{(|\Delta Var(within)| + |\Delta Var(between)|)}$).

Table A.9: Results of RIF regression: Bulgaria and Romania

		Bulgaria	9.			Romani	a	
	2002	2006	2010	2014	2002	2006	2010	2014
Individual effects	2002	2000	2010	2011	2002	2000	2010	
reference: primary education								
tertiary education	0.055***	0.028***	-0.004	-0.015**	0.297***	0.025***	0.029***	-0.018***
secondary education	-0.003	-0.025***	-0.043***	-0.021***	-0.026***	0.004	-0.032***	-0.013***
reference: under 30 years old	0.000	0.0-0	0.0.0		0.0_0	0.00-	*****	0.020
30-49 years old	-0.000	0.018***	0.066***	0.091***	-0.002	0.034***	0.051***	0.080***
50 years old or more	0.022***	0.026***	0.067***	0.091***	0.084***	0.112***	0.078***	0.099***
reference: male		0.0_0			0.00			0.000
female	-0.064***	-0.069***	-0.071***	-0.081***	-0.031***	-0.025***	-0.025***	-0.051***
reference: tenure of less than a year								
tenure: 1-4 years	-0.023***	0.015***	-0.004	-0.009**	-0.003	-0.013***	-0.001	-0.007**
tenure: 5-9 years	-0.013***	0.040***	0.013***	0.010**	-0.017***	-0.012***	-0.004	-0.010**
tenure: 10 years or more	0.013***	0.088***	0.037***	0.031***	0.013**	0.018***	0.016***	0.038***
reference: ISCO 5								
ISCO 1	0.411***	0.553***	0.558***	0.650***	0.480***	0.991***	0.635***	0.673***
ISCO 2	0.069***	0.183***	0.145***	0.215***	-0.216***	0.280***	-0.035***	0.109***
ISCO 3	-0.045***	-0.055***	-0.021***	-0.048***	-0.164***	-0.058***	-0.157***	-0.126***
ISCO 4	-0.092***	-0.102***	-0.122***	-0.117***	-0.321***	-0.177***	-0.251***	-0.186***
ISCO 6	-0.050**	-0.044*	0.011	0.740***	-0.133***	-0.049**	-0.109***	-0.036
ISCO 7	-0.041***	-0.050***	-0.080***	-0.089***	-0.191***	-0.092***	-0.175***	-0.122***
ISCO 8	-0.062***	-0.083***	-0.100***	-0.134***	-0.242***	-0.109***	-0.199***	-0.148***
ISCO 9	0.002	-0.000	0.022***	0.014***	-0.081***	0.040***	-0.018***	-0.034***
reference: permanent contract	0.00=	0.000	0.0==	0.022	0.002	0.0.0	0.020	0.00-
fixed contract	0.003	0.068***	0.021***	0.034***	0.024***	-0.046***	-0.016**	-0.051***
Firm effects								
reference: NACE C								
NACE B	0.209***	0.268***	0.197***	0.280***	0.330***	0.307***	0.343***	0.613***
NACE D+E	0.194***	0.229***	0.163***	0.203***	0.206***	0.074***	0.098***	0.087***
NACE F	-0.082***	-0.111***	-0.059***	-0.039***	-0.025***	0.027***	-0.002	-0.029***
NACE G	0.004	-0.047***	-0.095***	-0.110***	0.084***	0.050***	-0.016***	-0.024***
NACE $H+J$	-0.007	0.008	0.129***	0.167***	0.208***	0.081***	0.118***	0.122***
NACE I	0.038***	-0.039***	-0.075***	-0.128***	0.049***	0.064***	-0.016**	0.024***
NACE K	0.267***	0.216***	0.071***	0.004	0.607***	0.703***	0.560***	0.344***
NACE $L+M+N$	-0.019***	0.035***	0.106***	0.068***	0.002	0.115***	0.015***	0.003
NACE O	-0.204***	-0.144***	-0.187***	-0.143***	0.029***	0.197***	0.029***	0.039***
NACE P	-0.310***	-0.396***	-0.298***	-0.268***	-0.321***	-0.187***	-0.360***	-0.322***
NACE Q	-0.208***	-0.111***	-0.151***	-0.107***	-0.066***	-0.067***	-0.116***	-0.103***
NACE R+S	-0.093***	-0.012*	-0.123***	-0.154***	0.032***	-0.004	-0.149***	-0.131***
reference: private ownership of a firm								
public ownership of a firm	-0.067***	-0.078***	-0.110***	-0.112***	-0.072***	-0.024***	-0.017***	-0.061***
tenure: less than 2 years (share)	0.117***	0.018***	0.071***	0.065***	0.138***	0.073***	0.028***	0.101***
age: 50 years or more (share)	-0.486***	-0.375***	-0.374***	-0.445***	-0.361***	-0.284***	-0.160***	-0.198***
tertiary education (share)	0.250***	0.378***	0.404***	0.325***	0.497***	0.245***	0.488***	0.533***
female (share)	-0.058***	-0.046***	0.003	-0.029***	0.073***	0.045***	-0.009	-0.027***
constant	0.488***	0.390***	0.326***	0.345***	0.429***	0.255***	0.333***	0.219***
Observations	150,392	162,838	175,575	168,345	220,284	241,708	262,983	270,582
R-squared	0.175	0.187	0.198	0.217	0.221	0.260	0.227	0.250
T. H. J. H. G. H. B.		. F	(F:	. P 0/ I	0.1221			

Table shows the coefficients estimated by Recentered Influence Function regression (Firpo, Fortin, & Lemieux, 2018). The coefficients measure the impact of an Table shows the coefficients estimated by Recentered Influence Function regression (Firpo, Fortin, & Lemieux, 2018). The coefficients measure the impact of an infinitesimal shift to the right in the distribution of the regressors on variance of normalized log hourly wages in a given country in a given year. Trimmel sample does not include the top 0.1% and the bottom 0.1% hourly wages. Dummy variables indicating 1-digit level occupational groups from International Standard Classification of Occupations (ISCO) are included. There was no inconsistency in 1-digit level occupational groups between ISCO-88 and ISCO-08. ISCO 1 - managers, ISCO 2 - Professional, ISCO 3 - Technicians and associate professionals, ISCO 4 - Clerical support workers, ISCO 5 - Service and sales workers, ISCO 6 - Skilled agriculturul, forestry and fishery workers, ISCO 7 - Craft and related trades workers, ISCO 8 - Plant and machine operators, and assemblers, ISCO 9 - Elementary occupations. Dummy variables indicating NACE Level 1 sectors were included (NACE Rev.2). Few Level 1 sectors were pooled for the reason of inconsistencies between NACE Rev.1 and NACE Rev.2. NACE B - Mining and Quarrying, NACE C - Manufacturing, NACE D+E - Electricity, Gas, Steam and Air Conditioning Supply, Water Supply; Sewerage, Waste Management and Remediation Activities, NACE F - Construction, NACE G - Wholesale and Retail Trade; Repair of Motor Vehicles and Motorcycles, NACE H+J - Transportation and Storage, Information and Communication, NACE I - Accommodation and Food Service Activities, NACE A+H+N - Real Estate Activities, Professional, Scientific and Technical Activities, Administration and Support Service Activities, NACE O - Public Administration and Defence; Compulsory Social Security, NACE P - Education, NACE Q - Human Health and Social Work Activities, NACE A+S - Arts, Entertainment and Recreation, Other Service Activities

^{*} p<0.1, ** p<0.05 ***p<0.01

Table A.10: Results of RIF regression: Czechia and Slovakia

	Czechia				Slovakia			
	2002	2006	2010	2014	2002	2006	2010	2014
Individual effects								
reference: primary education								
tertiary education	0.163***	0.155***	0.141***	0.084***	0.066***	0.059***	0.049***	0.008***
secondary education	-0.043***	-0.054***	-0.054***	-0.066***	-0.070***	-0.111***	-0.091***	-0.094***
reference: under 30 years old								
30-49 years old	0.039***	0.078***	0.089***	0.098***	0.056***	0.069***	0.089***	0.098***
50 years old or more	0.050***	0.079***	0.093***	0.103***	0.068***	0.065***	0.094***	0.101***
reference: male								
female	-0.039***	-0.052***	-0.049***	-0.057***	-0.061***	-0.055***	-0.056***	-0.055***
reference: tenure of less than a year								
tenure: 1-4 years	-0.008***	-0.015***	-0.017***	-0.031***	-0.008***	0.004**	-0.003*	-0.018***
tenure: 5-9 years	-0.004***	0.001	-0.017***	-0.033***	0.008**	0.018***	0.008***	-0.016***
tenure: 10 years or more	-0.018***	-0.001	0.003***	-0.028***	-0.018***	0.020***	0.004**	-0.017***
reference: ISCO 5	0.010	0.001	0.000	0.020	0.010	0.020	0.001	0.01.
ISCO 1	0.274***	0.312***	0.366***	0.447***	0.350***	0.465***	0.474***	0.411***
ISCO 2	-0.139***	-0.124***	-0.052***	-0.029***	-0.126***	-0.081***	-0.051***	-0.030***
ISCO 3	-0.098***	-0.101***	-0.107***	-0.129***	-0.158***	-0.127***	-0.112***	-0.095***
ISCO 4	-0.097***	-0.135***	-0.164***	-0.173***	-0.156	-0.125***	-0.112	-0.108***
ISCO 6	-0.009	-0.002	-0.069***	-0.066***	0.038	0.018	-0.023**	0.031***
ISCO 7	-0.123***	-0.152***	-0.147***	-0.172***	-0.196***	-0.145***	-0.130***	-0.101***
ISCO 8	-0.128***	-0.161***	-0.157***	-0.172	-0.193***	-0.143	-0.153***	-0.114***
ISCO 9	0.005***	0.044***	0.058***	0.068***	-0.133	0.005**	-0.100	0.061***
reference: permanent contract	0.005	0.011	0.000	0.000	-0.033	0.005	-0.002	0.001
fixed contract	0.018***	0.023***	0.008***	-0.015***	0.031***	0.001	0.022***	0.004***
nxed contract	0.010	0.025	0.000	-0.015	0.031	0.001	0.022	0.004
Firm effects								
reference: NACE C								
NACE B	-0.000	0.033***	0.036***	0.046***	-0.005	-0.061***	0.030***	0.061***
NACE D+E	0.002	0.094***	0.064***	0.055***	0.153***	0.157***	0.030	0.001
NACE F	-0.002	-0.012***	-0.005***	-0.047***	-0.038***	-0.028***	-0.011***	0.008***
NACE F	-0.007	0.012	-0.003	-0.003***	0.054***	-0.025***	-0.011	-0.025***
NACE G NACE H+J	-0.010	0.069***	0.103***	0.088***	0.039***	0.029***	0.073***	0.092***
NACE I	0.028***	0.003	0.156***	0.072***	-0.009	0.025	0.010***	-0.006*
NACE I	0.028	0.265***	0.130	0.169***	0.077***	0.013	0.010	0.066***
NACE L+M+N	-0.013***	0.203	0.200	0.030***	0.122***	0.125	0.078	0.000
NACE L+M+N NACE O	-0.103***	-0.024***	-0.031***	-0.071***	-0.033***	-0.041***	-0.031***	-0.038***
NACE P	-0.105***	-0.024***	-0.051***	-0.187***	-0.033***	-0.041***	-0.031***	-0.038***
		-0.108***				-0.179***	-0.172***	0.012***
NACE Q NACE R+S	-0.060*** -0.055***	-0.032***	-0.030*** -0.037***	-0.020*** -0.052***	0.006 -0.087***	-0.038***	-0.100***	-0.031***
	-0.055	-0.007	-0.037	-0.052	-0.087	-0.048	-0.100	-0.031
reference: private ownership of a firm	-0.037***	-0.086***	-0.093***	-0.082***	-0.089***	-0.095***	-0.109***	-0.114***
public ownership of a firm								0.022***
tenure: less than 2 years (share)	0.053***	0.027***	0.090***	0.063***	0.010**	-0.053***	0.020***	
age: 50 years or more (share)	-0.157***	-0.203***	-0.117***	-0.111***	-0.369***	-0.274***	-0.183***	-0.142***
tertiary education (share)	0.137***	0.176***	0.116***	0.192***	0.283***	0.266***	0.240***	0.193***
female (share)	0.036***	0.041***	0.021***	0.001	-0.014***	-0.021***	0.020***	0.036***
constant	0.286***	0.290***	0.255***	0.307***	0.440***	0.441***	0.313***	0.276***
Observations	978,110	1,914,027	1,948,513	2,148,818	391,714	670,603	767,368	863,864
R-squared	0.183	0.201	0.207	0.219	0.130	0.200	0.216	0.191

resquared U.185 U.201 U.207 U.219 U.30 U.30 U.300 U.316 U.391

Table shows the coefficients estimated by Recentered Influence Function regression, the Lemieux, 2018). The coefficients measure the impact of an inflinitesimal shift to the right in the distribution of the regressors on variance of normalized log hourly wages in a given country in a given year. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

* p<0.1, ** p<0.05 ***p<0.01

Table A.11: Results of RIF regression: Estonia and Poland

	E	Stonia			Po	land	
	2006	2010	2014	2002	2006	2010	2014
Individual effects							
reference: primary education							
tertiary education	0.079***	0.055***	0.078***	0.230***	0.215***	0.155***	0.120***
secondary education	-0.026***	-0.034***	-0.018***	-0.012***	-0.006***	-0.016***	-0.018***
reference: under 30 years old							
30-49 years old	0.077***	0.085***	0.090***	0.072***	0.114***	0.109***	0.103***
50 years old or more	0.065***	0.084***	0.084***	0.117***	0.159***	0.133***	0.125***
reference: male							
female	-0.080***	-0.072***	-0.089***	-0.037***	-0.046***	-0.055***	-0.068***
reference: tenure of less than a year	0.000	0.012	0.000	0.001	0.010	0.000	0.000
tenure: 1-4 years	-0.005	-0.008**	0.000	-0.047***	-0.004*	-0.015***	-0.003*
tenure: 5-9 years	0.029***	-0.003	0.005	-0.043***	-0.010***	-0.020***	-0.015***
tenure: 10 years or more	-0.004	-0.004	-0.005	-0.050***	-0.015***	0.006***	0.026***
reference: ISCO 5	-0.004	-0.004	-0.000	-0.000	-0.010	0.000	0.020
ISCO 1	0.366***	0.370***	0.286***	0.383***	0.263***	0.285***	0.309***
ISCO 1	-0.018***	-0.045***	-0.048***	-0.021***	-0.099***	-0.027***	-0.023***
ISCO 2 ISCO 3	-0.018	-0.045	-0.046	-0.127***	-0.099	-0.027	-0.023
ISCO 3 ISCO 4	-0.077***	-0.145***	-0.094***	-0.127***	-0.210***	-0.139***	-0.170***
ISCO 4 ISCO 6	0.257***	0.025	-0.147***	-0.184***	-0.220***	0.026	-0.062***
ISCO 7	-0.060***	-0.125***	-0.087***	-0.092***	-0.128***	-0.078***	-0.087***
ISCO 8	-0.096***	-0.129***	-0.132***	-0.150***	-0.190***	-0.121***	-0.122***
ISCO 9	0.209***	0.129***	0.097***	-0.006**	-0.048***	0.009***	-0.001
reference: permanent contract							
fixed contract	0.050***	0.045***	0.043***				
Firm effects							
reference: NACE C							
NACE B	-0.001	0.118***	0.077***	0.233***	0.207***	0.103***	0.213***
NACE D+E	-0.076***	0.020**	0.039***	0.028***	0.017***	-0.010***	-0.010***
NACE F	0.044***	0.038***	0.019***	-0.015***	-0.022***	0.009***	0.015***
NACE G	0.037***	0.002	0.028***	-0.003	-0.023***	-0.008***	0.025***
NACE $H+J$	0.048***	0.112***	0.132***	0.010***	0.016***	0.041***	0.045***
NACE I	0.019**	-0.007	-0.015**	0.040***	0.013**	-0.006	0.028***
NACE K	0.240***	0.193***	0.235***	-0.026***	0.056***	0.050***	0.019***
NACE L $+$ M $+$ N	0.070***	0.014***	0.064***	0.008***	0.038***	0.056***	0.044***
NACE O	-0.092***	-0.044***	-0.030***	-0.104***	-0.076***	-0.138***	-0.113***
NACE P	-0.035***	-0.093***	-0.034***	-0.017***	0.010***	0.042***	0.070***
NACE Q	0.101***	0.090***	0.075***	-0.077***	-0.129***	-0.080***	-0.083***
NACE R+S	-0.004	-0.010	0.013*	-0.082***	-0.048***	-0.073***	-0.078***
reference: private ownership of a firm							
public ownership of a firm	-0.037***	-0.060***	-0.033***	-0.131***	-0.118***	-0.084***	-0.069***
tenure: less than 2 years (share)	-0.016**	0.036***	0.029***	0.109***	0.135***	0.081***	0.083***
age: 50 years or more (share)	-0.112***	-0.115***	-0.084***	-0.179***	-0.153***	-0.159***	-0.082***
tertiary education (share)	0.146***	0.152***	0.094***	0.304***	0.196***	0.166***	0.153***
female (share)	0.002	0.075***	0.067***	0.083***	0.084***	0.065***	0.027***
constant	0.251***	0.249***	0.211***	0.322***	0.285***	0.212***	0.194***
Observations	114,656	108,903	112,569	629,101	639,784	667,963	707,999
R-squared	0.161	0.183	0.134	0.199	0.183	0.185	0.170

Resquared $0.161 \ 0.183 \ 0.134 \ 0.199 \ 0.183 \ 0.183 \ 0.183 \ 0.185 \ 0.170$ Table shows the coefficients estimated by Recentered Influence Function regression (Firpo, Fortin, & Lemieux, 2018). The coefficients measure the impact of an infinitesimal shift to the right in the distribution of the regressors on variance of normalized log hourly wages in a given country in a given year. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

* p < 0.1, ** p < 0.05 ***p < 0.01 Data: European Structure of Earnings Survey.

Table A.12: Results of RIF regression: Lithuania and Latvia

		Lithuani	a			Latvia	
	2002	2006	2010	2014	2006	2010	2014
Individual effects							
reference: primary education							
tertiary education	0.139***	0.132***	0.061***	0.015	0.077***	0.033***	0.000
secondary education	-0.010**	-0.001	-0.043***	-0.020*	-0.028***	-0.029***	-0.032***
reference: under 30 years old	0.010	0.001	0.010	0.020	0.020	0.020	0.002
30-49 years old	0.035***	0.066***	0.089***	0.091***	0.079***	0.084***	0.103***
50 years old or more	0.046***	0.074***	0.098***	0.104***	0.070***	0.067***	0.095***
reference: male	0.010	0.011	0.000	0.101	0.010	0.001	0.000
female	-0.058***	-0.069***	-0.075***	-0.085***	-0.073***	-0.079***	-0.067***
reference: tenure of less than a year	0.000	0.000	0.010	0.000	0.010	0.015	0.001
tenure: 1-4 years	0.002	0.016***	-0.028***	-0.005	0.018***	-0.001	0.018***
tenure: 5-9 years	0.002	0.054***	-0.025	-0.019**	0.052***	0.015***	0.010
tenure: 10 years or more	0.018	0.034	0.008	0.003	0.038***	0.006*	0.004
reference: ISCO 5	0.020	0.040	0.000	0.005	0.030	0.000	0.004
ISCO 1	0.310***	0.274***	0.243***	0.457***	0.320***	0.331***	0.322***
ISCO 1	-0.029***	-0.060***	-0.136***	-0.048***	0.007	-0.007*	0.017***
ISCO 2 ISCO 3	-0.029	-0.060***	-0.134***	-0.102***	-0.100***	-0.100***	-0.104***
ISCO 3	-0.041	-0.129***	-0.155***	-0.102	-0.121***	-0.100	-0.152***
ISCO 4 ISCO 6	0.028	0.159***	0.107	-0.127	0.103***	0.038	0.081***
ISCO 6	-0.026***	-0.013**	-0.095***	-0.230	-0.034***	-0.059***	-0.047***
ISCO 7	-0.020	-0.013	-0.093	-0.110***	-0.034***	-0.063***	-0.047
ISCO 8 ISCO 9	0.085***	0.118***	0.150***	0.091***	0.124***	0.086***	0.086***
	0.085	0.118	0.150	0.091	0.124	0.080	0.080
reference: permanent contract fixed contract	-0.029***	0.052***	0.046***	-0.000	0.187***	0.064***	0.047***
fixed contract	-0.029	0.052	0.040	-0.000	0.187	0.004	0.047
Firm effects							
reference: NACE C							
NACE B	0.067***	0.020	-0.060	-0.074*	-0.100***	-0.111***	-0.027
NACE D+E	0.007	0.072***	0.033**	0.049***	0.120***	-0.111	0.003
NACE F	0.031	0.072	-0.027**	-0.033***	-0.003	-0.013	-0.050***
NACE F	0.012	0.014	-0.027	0.005	0.029***	-0.032	-0.027***
NACE G NACE H+J	0.012	0.010	0.101***	0.003	0.072***	0.072***	0.092***
NACE II+3	0.000	0.064***	-0.030	0.020	0.072	0.072	-0.034***
NACE I	0.260***	0.300***	0.212***	0.217***	0.286***	0.281***	0.322***
NACE K NACE L+M+N	-0.022***	-0.007	0.212	0.217	0.068***	-0.023***	0.008
NACE L+M+N NACE O	0.026***	0.059***	-0.022	-0.038***	-0.081***	-0.025	-0.191***
NACE O NACE P	-0.012*	0.039	0.131***	0.038***	0.002	-0.13***	-0.146***
NACE P NACE Q	-0.012	0.010	0.131	0.094***	0.068***	-0.113	0.036***
NACE R+S	-0.052***	-0.022***	-0.009	-0.062***	0.002	-0.101***	-0.089***
	-0.055	-0.022	-0.009	-0.002	0.002	-0.101	-0.089
reference: private ownership of a firm	-0.083***	-0.119***	-0.120***	-0.108***	-0.147***	-0.061***	-0.075***
public ownership of a firm		0.063***	0.048***		0.077***	0.059***	0.020***
tenure: less than 2 years (share)	0.052*** -0.205***	-0.096***	-0.111***	0.001 -0.070***	-0.183***	-0.171***	-0.158***
age: 50 years or more (share)	0.359***	0.231***	0.155***	0.167***	0.349***	0.367***	0.402***
tertiary education (share)	-0.026***						
female (share)	0.284***	0.014** 0.195***	-0.003 0.323***	0.042*** 0.213***	-0.022*** 0.341***	-0.019*** 0.277***	-0.031*** 0.226***
constant							
Observations	135,978	114,892	26,093	31,079	271,872	198,862	153,540
R-squared	0.159	0.132	0.176	0.190	0.117	0.166	0.157

Table shows the coefficients estimated by Recentered Influence Function regression (Firpo, Fortin, & Lemieux, 2018). The coefficients measure the impact of an infinitesimal shift to the right in the distribution of the regressors on variance of normalized log hourly wages in a given country in a given year. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

* p<0.1, **p<0.05 ***p<0.01

Data: European Structure of Earnings Survey.

Table A.13: Results of RIF regression: Hungary

Hungary 2006 2010 2014Individual effects reference: primary education 0.217*** 0.205*** 0.095*** tertiary education -0.028*** -0.032*** -0.085*** secondary education reference: under 30 years old 30-49 years old 50 years old or more 0.080*** 0.001*** 0.096*** 0.106*** 0.106*** 0.120*** reference: male female -0.064*** -0.077*** -0.069*** reference: tenure of less than a year tenure: 1-4 years -0.113*** -0.091*** -0.014*** -0.048*** -0.005*** -0.049*** tenure: 5-9 years tenure: 10 years or more -0.021*** -0.041*** -0.103*** reference: ISCO 5 ISCO 1 0.341*** -0.051*** -0.101*** -0.124*** 0.351*** 0.428*** 0.428*** 0.010*** -0.080*** -0.044*** -0.112*** -0.117*** ISCO 2 ISCO 3 -0.089*** ISCO 4 0.045*** 0.034*** 0.117*** ISCO 6 ISCO 7 ISCO 8 -0.151*** 0.025*** -0.133*** 0.143*** -0.152*** 0.082*** ISCO 9 reference: permanent contract 0.015*** -0.056*** fixed contract -0.024*** Firm effects reference: NACE C NACE B 0.037*** 0.011 -0.012 NACE D+E 0.074*** 0.028*** 0.020*** -0.070*** -0.012 -0.016*** -0.108*** NACE F 0.024*** 0.048*** -0.084*** 0.046*** -0.035*** 0.044*** NACE G NACE H+J -0.017*** 0.223*** -0.101*** 0.271*** -0.100*** 0.267*** NACE I NACE K -0.071*** 0.044*** NACE L+M+N NACE O 0.001 -0.027*** -0.024*** -0.081*** -0.223*** -0.049*** NACE P -0.320*** -0.379*** -0.123*** -0.094*** NACE O NACE R+S -0.087*** -0.188*** -0.114*** reference: private ownership of a firm -0.049*** public ownership of a firm tenure: less than 2 years (share) -0.085*** -0.058*** 0.079*** 0.100*** 0.148*** 0.148*** -0.194*** 0.220*** -0.099*** 0.379*** -0.163*** 0.316*** -0.164*** 0.362*** age: 50 years or more (share) tertiary education (share) female (share) -0.054*** 0.322*** -0.026*** 0.312*** constant Observations 676,050 781,240770,148 R-squared 0.2520.2440.248

K-squared 0.252 0.254 0.254 0.254 0.264 0.265 0.264 0.265 0.264 0.265 0.

Table A.14: Blinder-Oaxaca decomposition: Bulgaria and Romania

	В	ulgaria			Romania	
	Endowments	Coefficients	Interaction	Endowments	Coefficients	Interaction
Individual effects						
reference: primary education						
tertiary education	0.002***	-0.013***	-0.003***	0.000***	-0.013***	-0.000***
secondary education	0.000***	0.002	-0.000	0.000	-0.010***	-0.001***
reference: under 30 years old						
30-49 years old	-0.000***	0.039***	-0.002***	-0.000	0.028***	-0.000
50 years old or more	0.001***	0.020***	0.003***	0.004***	-0.003**	-0.001**
reference: male						
female	-0.001***	-0.006***	-0.000***	-0.000**	-0.012***	-0.000**
reference: tenure of less than a year	0.001	0.000	0.000	0.000	0.012	0.000
tenure: 1-4 years	-0.000***	-0.009***	0.001***	0.001***	0.002	-0.000
tenure: 5-9 years	0.002***	-0.005***	-0.002***	-0.001***	0.000	0.000
tenure: 10 years or more	-0.001***	-0.013***	0.000***	0.000***	0.005***	0.000***
reference: ISCO 5	0.001	0.010	0.000	0.000	0.000	0.000
ISCO 1	0.003***	0.005***	0.001***	0.012***	-0.015***	-0.004***
ISCO 2	0.011***	0.005***	0.002***	0.023***	-0.025***	-0.014***
ISCO 2 ISCO 3	0.000***	0.001	-0.000	0.002***	-0.008***	0.003***
ISCO 4	0.000	-0.001*	0.000*	0.002	-0.001	0.000
ISCO 4 ISCO 6	-0.000	0.002***	0.001***	0.000**	0.000	-0.000
ISCO 7	0.001***	-0.002	0.001	0.004***	-0.006***	0.001***
ISCO 8	0.001	-0.008***	0.001	0.004	-0.007***	0.001
ISCO 9	0.002	0.002**	-0.000**	0.003	-0.007	-0.002
reference: permanent contract	0.000	0.002	-0.000	0.001	-0.009	-0.001
fixed contract	-0.003***	-0.005***	0.001***	-0.001***	-0.000	-0.000
nxed contract	-0.005	-0.005	0.001	-0.001	-0.000	-0.000
Firm effects						
reference: NACE C						
NACE B	-0.001***	0.000	-0.000	-0.004***	0.007***	-0.004***
NACE D+E	0.001***	-0.001**	-0.000**	0.000***	0.000	0.000
NACE F	0.002***	0.006***	-0.002***	-0.000***	-0.005***	0.000***
NACE G	-0.001***	-0.007***	-0.002***	0.001***	-0.008***	-0.001***
NACE H+J	0.000	0.012***	0.002	0.002***	0.003***	0.001***
NACE I	-0.000***	-0.003***	-0.001***	0.002	-0.003	-0.000***
NACE I NACE K	0.002***	-0.003	-0.001	0.001	-0.001	-0.000
NACE L+M+N	0.002	0.002***	0.001***	0.001	-0.005	-0.001
NACE DEWEN	0.001	0.002	-0.000	-0.004	-0.007	0.001***
NACE O NACE P	0.001	0.000	-0.000	0.001***	-0.011***	0.001
NACE P NACE Q	-0.003***	0.012	0.000	-0.0001***	-0.013	-0.000***
NACE Q NACE R+S	0.000*	-0.007***	0.004***		-0.002***	-0.000**
	0.000	-0.007	0.004	-0.000	-0.005	-0.000
reference: private ownership of a firm	0.005***	-0.012***	0.002***	0.001***	-0.013***	0.001***
public ownership of a firm	-0.001***	0.023***	-0.003***	-0.005***	0.011***	-0.002***
tenure: less than 2 years (share)	-0.001****	-0.022***	-0.003****	-0.005****	0.011****	0.003***
age: 50 years or more (share)	0.027***	-0.022****	-0.003****	0.002***	0.019****	0.003****
tertiary education (share)	-0.001***	0.008**	0.000*	0.002****	-0.034***	-0.000***
female (share)	-0.001	0.008	0.000	0.000	-0.034	-0.000
constant		-0.044***			-0.035***	
constant	0.043***	-0.044****	-0.003**	0.041***	-0.035****	-0.017***
total	0.045		-0.005	0.041		-0.017
Observations		331,183			512,290	

Table represent the results of the Blinder-Oaxaca decomposition of changes in variance of normalized log hourly wages between 2006 and 2014 based on the RIF regression results from Table A.9. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

Table A.15: Blinder-Oaxaca decomposition: Czechia and Slovakia

	(Czechia		Slovakia			
	Endowments	Coefficients	Interaction	Endowments	Coefficients	Interaction	
Individual effects							
reference: primary education							
tertiary education	0.006***	-0.012***	-0.003***	0.005***	-0.011***	-0.005***	
secondary education	0.001***	-0.009***	0.000***	0.009***	0.012***	-0.001***	
reference: under 30 years old							
30-49 years old	0.002***	0.010***	0.001***	-0.001***	0.016***	-0.000***	
50 years old or more	-0.001***	0.007***	-0.000***	0.003***	0.010***	0.001***	
reference: male							
female	-0.001***	-0.002***	-0.000***	-0.000***	0.000	0.000	
reference: tenure of less than a year							
tenure: 1-4 years	0.000***	-0.005***	0.001***	-0.000**	-0.009***	0.002***	
tenure: 5-9 years	0.000	-0.007***	-0.000***	0.001***	-0.007***	-0.001***	
tenure: 10 years or more	-0.000	-0.008***	-0.000***	0.001***	-0.010***	-0.002***	
reference: ISCO 5							
ISCO 1	-0.006***	0.009***	-0.003***	0.003***	-0.003***	-0.000***	
ISCO 2	-0.003***	0.012***	0.002***	-0.005***	0.007***	0.003***	
ISCO 3	0.002***	-0.006***	0.001***	0.007***	0.007***	-0.002***	
ISCO 4	-0.001***	-0.003***	-0.000***	-0.002***	0.001***	0.000***	
ISCO 6	-0.000	-0.000***	-0.000	-0.000	0.000	-0.000	
ISCO 7	0.006***	-0.004***	0.001***	0.010***	0.008***	-0.003***	
ISCO 8	-0.001***	-0.002***	-0.000***	-0.000***	0.008***	0.000***	
ISCO 9	-0.000***	0.002***	-0.000***	-0.000**	0.005***	-0.001***	
reference: permanent contract	0.000	0.002	0.000	0.000	0.000	0.001	
fixed contract	0.001***	-0.007***	-0.002***	0.000	0.000*	0.000*	
incer contract	0.001	0.001	0.002	0.000	0.000	0.000	
Firm effects							
reference: NACE C							
NACE B	-0.000***	0.000***	-0.000***	0.000***	0.001***	-0.000***	
NACE D+E	0.001***	-0.001***	-0.000***	0.001***	-0.001***	-0.000***	
NACE F	0.000***	-0.002***	0.000***	0.001***	0.002***	-0.001***	
NACE G	-0.000***	-0.002***	0.000***	-0.000***	0.000	0.000	
NACE H+J	0.001***	0.001***	0.000***	0.001***	0.005***	0.002***	
NACE I	0.000***	0.001	0.000***	-0.000***	-0.000***	0.000***	
NACE K	0.001***	-0.002***	-0.000***	0.001***	-0.001***	-0.000***	
NACE L+M+N	0.000***	0.001***	0.000***	0.001	-0.000*	-0.000*	
NACE O	-0.000***	-0.003***	-0.000***	-0.001***	0.000	0.000	
NACE P	-0.000	-0.006***	-0.000	-0.003***	0.007***	0.001***	
NACE Q	-0.000***	0.001***	0.000***	0.000***	0.004***	-0.001***	
NACE R+S	0.000***	-0.001	0.000***	0.000	0.001	-0.000***	
reference: private ownership of a firm	0.000	-0.001	0.000	0.001	0.001	-0.000	
public ownership of a firm	-0.001***	0.001***	0.000***	-0.001***	-0.006***	-0.000***	
tenure: less than 2 years (share)	-0.001	0.001	-0.001***	0.004***	0.028***	-0.006***	
age: 50 years or more (share)	0.002***	0.013	-0.001	-0.011***	0.036***	0.005***	
tertiary education (share)	0.002	0.003***	0.001	0.024***	-0.016***	-0.006***	
female (share)	0.000***	-0.018***	-0.001	-0.000***	0.028***	0.000***	
remare (smare)	0.001	-0.010	-0.001	-0.000	0.020	0.000	
constant		0.017***			-0.165***		
total	0.015***	0.017	-0.004***	0.047***	-0.103	-0.014***	
Observations	0.015	4,062,845	-0.004	0.041	1,534,467	-0.014	
ODSCI VALIOUS		4,002,040			1,004,407		

Table represent the results of the Blinder-Oaxaca decomposition of changes in variance of normalized log hourly wages between 2006 and 2014 based on the RIF regression results from Table A.10. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

Table A.16: Blinder-Oaxaca decomposition: Estonia and Poland

	F	Stonia		Poland				
	Endowments	Coefficients	Interaction	Endowments	Coefficients	Interaction		
Individual effects								
reference: primary education								
tertiary education	-0.002***	-0.000	0.000	0.020***	-0.028***	-0.009***		
secondary education	-0.000***	0.005	0.000	0.000***	-0.008***	0.001***		
reference: under 30 years old	0.000	0.000	0.000	0.000	0.000	0.001		
30-49 years old	-0.001***	0.006***	-0.000***	-0.001***	-0.006***	0.000***		
50 years old or more	0.003***	0.006***	0.001***	0.007***	-0.008***	-0.002***		
reference: male	0.003	0.000	0.001	0.001	-0.000	-0.002		
female	0.001***	-0.005**	0.000*	-0.000***	-0.011***	-0.000***		
reference: tenure of less than a year	0.001	-0.005	0.000	-0.000	-0.011	-0.000		
	0.001	0.002	-0.001	0.000*	0.000	-0.000		
tenure: 1-4 years		-0.002	0.000	-0.000*	-0.001			
tenure: 5-9 years	-0.000					-0.000		
tenure: 10 years or more	-0.000	-0.000	-0.000	-0.000***	0.015***	0.000***		
reference: ISCO 5	0.001*	0.00=+++	0.000*	0.00.1***	0.000***	0.001***		
ISCO 1	-0.001*	-0.005***	0.000*	0.004***	0.003***	0.001***		
ISCO 2	-0.001***	-0.005***	-0.001***	-0.003***	0.018***	0.002***		
ISCO 3	0.001***	-0.003***	0.000**	0.003***	0.009***	-0.001***		
ISCO 4	0.000***	-0.002***	0.000**	0.002***	0.005***	-0.000***		
ISCO 6	0.000***	-0.000***	-0.000***	-0.000***	0.000***	0.000***		
ISCO 7	0.001***	-0.004***	0.000***	0.003***	0.007***	-0.001***		
ISCO 8	0.003***	-0.005***	0.001***	0.000***	0.008***	-0.000***		
ISCO 9	0.001***	-0.012***	-0.000***	0.001***	0.005***	-0.001***		
reference: permanent contract								
fixed contract	-0.001***	-0.000	0.000					
Firm effects								
reference: NACE C								
NACE B	0.000	0.001***	-0.000***	-0.000***	0.000	-0.000		
NACE D $+$ E	0.000***	0.003***	-0.000***	0.000***	-0.001***	-0.000***		
NACE F	0.000***	-0.001***	-0.000**	-0.000***	0.002***	0.000***		
NACE G	0.001***	-0.001	-0.000	-0.000***	0.006***	0.000***		
NACE $H+J$	0.001***	0.007***	0.001***	0.000***	0.002***	0.001***		
NACE I	0.000**	-0.001***	-0.000***	0.000**	0.000**	0.000**		
NACE K	-0.002***	-0.000	0.000	0.000***	-0.001***	-0.000***		
NACE L+M+N	0.0002	-0.000	-0.000	0.000***	0.000	0.000		
NACE O	0.001***	0.006***	-0.001***	-0.000***	-0.002***	-0.000***		
NACE P	-0.000***	0.000	0.000	-0.000***	0.008***	-0.000		
NACE Q	-0.000**	-0.002***	0.000*	0.002***	0.004***	-0.000		
NACE R+S	0.000	0.001	-0.000	0.002	-0.001***	0.000***		
	0.000	0.001	-0.000	0.000	-0.001	0.000		
reference: private ownership of a firm	0.001***	0.001	0.000	0.008***	0.020***	-0.003***		
public ownership of a firm		0.001	-0.000					
tenure: less than 2 years (share)	-0.000**	0.016***	0.001***	-0.001***	-0.015***	0.000***		
age: 50 years or more (share)	-0.005***	0.009**	0.001**	-0.007***	0.016***	0.003***		
tertiary education (share)	-0.010***	-0.018***	0.004***	0.018***	-0.013***	-0.004***		
female (share)	0.000	0.036***	0.000	0.000***	-0.027***	-0.000***		
constant		-0.040***			-0.091***			
total	-0.008***	-0.010***	0.005***	0.059***	-0.083***	-0.014***		
Observations		227,225			1,347,783			

Table represent the results of the Blinder-Oaxaca decomposition of changes in variance of normalized log hourly wages between 2006 and 2014 based on the RIF regression results from Table A.11. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

Table A.17: Blinder-Oaxaca decomposition: Lithuania and Latvia

	Li	thuania		Latvia			
	Endowments	Coefficients	Interaction	Endowments	Coefficients	Interaction	
Individual effects							
reference: primary education							
tertiary education	0.019***	-0.037***	-0.017***	0.007***	-0.026***	-0.007***	
secondary education	0.000	-0.012	0.002	0.003***	-0.003	0.001	
reference: under 30 years old							
30-49 years old	-0.005***	0.013***	-0.002***	-0.002***	0.012***	-0.001***	
50 years old or more	0.007***	0.008***	0.003***	0.003***	0.008***	0.001***	
reference: male		0.000		0.000	0.000	0.00-	
female	-0.002***	-0.009***	-0.001***	-0.001***	0.003	0.000	
reference: tenure of less than a year	0.002	0.000	0.001	0.001	0.000	0.000	
tenure: 1-4 years	-0.001***	-0.007***	0.001***	-0.001***	0.000	-0.000	
tenure: 5-9 years	0.002***	-0.012***	-0.002***	0.000***	-0.006***	-0.000***	
tenure: 10 years or more	0.002	-0.012***	-0.003***	0.002***	-0.007***	-0.002***	
reference: ISCO 5	0.003	-0.012	-0.005	0.002	-0.007	-0.002	
ISCO 1	-0.012***	0.020***	-0.008***	-0.003***	0.000	-0.000	
ISCO 1	-0.012	0.020	0.001	0.000	0.000	0.000	
ISCO 2 ISCO 3	0.000	-0.004***	0.001	0.001***	-0.001	0.000	
ISCO 3 ISCO 4	0.000	0.000	-0.000	0.001***	-0.001	0.000	
ISCO 4 ISCO 6	-0.000***	-0.000**	0.000*	-0.002***	-0.002	0.000	
ISCO 6 ISCO 7	0.001**	-0.010***	0.000*	0.001***	-0.002*	0.000*	
ISCO 8	-0.000**	-0.006***	-0.000**	0.000***	-0.003***	0.000***	
ISCO 9	0.000	-0.003**	-0.000	0.001***	-0.005***	-0.000***	
reference: permanent contract	0.001***	0.000***	0.000***	0.001***	0.00=***	0.001***	
fixed contract	0.001***	-0.002***	-0.002***	0.001***	-0.007***	-0.001***	
F:							
Firm effects							
reference: NACE C	0.000	0.000**	0.000	0.000***	0.000***	0.000**	
NACE B	-0.000	-0.000**	0.000	-0.000***	0.000***	0.000**	
NACE D+E	0.001***	-0.001	-0.000	0.001***	-0.002***	-0.001***	
NACE F	-0.002***	-0.011***	0.003***	0.000	-0.004***	0.000***	
NACE G	-0.000**	-0.001	0.000	-0.000***	-0.008***	0.001***	
NACE H+J	0.002***	-0.000	-0.000	0.002***	0.002***	0.001***	
NACE I	-0.001***	-0.001**	0.001**	0.000	-0.003***	-0.000	
NACE K	-0.000	-0.001***	0.000	-0.001***	0.001***	-0.000***	
NACE L+M+N	-0.000	0.002***	0.000***	-0.000***	-0.005***	0.000***	
NACE O	0.002***	-0.007***	-0.003***	0.001***	-0.011***	0.002***	
NACE P	0.000	0.004**	0.000*	0.000	-0.021***	-0.008***	
NACE Q	0.003***	0.002	0.001	0.001***	-0.002***	-0.000***	
NACE R+S	0.000***	-0.002**	0.001**	-0.000	-0.004***	0.002***	
reference: private ownership of a firm							
public ownership of a firm	-0.010***	0.004	0.001	-0.004***	0.031***	0.002***	
tenure: less than 2 years (share)	-0.005***	-0.028***	0.005***	-0.005***	-0.026***	0.004***	
age: 50 years or more (share)	-0.009***	0.007	0.002	-0.009***	0.008**	0.001**	
tertiary education (share)	0.033***	-0.020***	-0.009***	0.030***	0.018***	0.005***	
female (share)	0.000**	0.014**	0.001**	-0.000***	-0.005	-0.000	
		0.040					
constant	0.000***	0.018	0.004***	0.000****	-0.115***	0.000	
total	0.022***	-0.089***	-0.021***	0.030***	-0.183***	0.000	
Observations		145,971			425,412		

Table represent the results of the Blinder-Oaxaca decomposition of changes in variance of normalized log hourly wages between 2006 and 2014 based on the RIF regression results from Table A.12. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

Table A.18: Blinder-Oaxaca decomposition: Hungary

		**	
	E. J	Hungary	T., 4
In divide al affects	Endowments	Coefficients	Interaction
Individual effects			
reference: primary education	0.011***	-0.031***	-0.006***
tertiary education	0.011***	-0.031***	0.001***
secondary education	0.001	-0.055	0.001
reference: under 30 years old	0.002***	0.009***	0.001***
30-49 years old	-0.001***	0.009***	-0.000***
50 years old or more	-0.001	0.004	-0.000
reference: male female	0.002***	-0.003***	0.000***
	0.002	-0.005	0.000
reference: tenure of less than a year	-0.000	-0.032***	-0.000
tenure: 1-4 years	0.000***	-0.032***	0.002***
tenure: 5-9 years tenure: 10 years or more	0.000	-0.015	0.002
reference: ISCO 5	0.001	-0.025	0.005
ISCO 1	-0.005***	0.007***	-0.001***
ISCO 1	-0.003***	0.010***	0.002***
ISCO 2 ISCO 3	-0.001***	0.004***	0.002***
ISCO 3	0.004***	0.004***	-0.001***
ISCO 4 ISCO 6	-0.000	0.000***	-0.001
ISCO 6 ISCO 7	-0.000	0.003***	0.000***
ISCO 7	-0.001***		
ISCO 8 ISCO 9	0.002***	-0.000 0.006***	-0.000 0.003***
	0.001	0.000	0.005
reference: permanent contract fixed contract	-0.000***	-0.004***	0.001***
nxed contract	-0.000	-0.004	0.001
Firm effects			
reference: NACE C			
NACE B	0.000***	-0.000***	-0.000***
NACE D+E	-0.000***	-0.003***	0.000***
NACE F	-0.000***	-0.006***	0.001***
NACE G	0.000	-0.006***	-0.000
NACE H+J	0.001***	-0.000	-0.000
NACE I	0.000**	-0.002***	0.000***
NACE K	0.002***	0.001***	0.000***
NACE L+M+N	0.000	-0.004***	-0.001***
NACE O	-0.000***	0.010***	0.001***
NACE P	0.006***	0.014***	-0.002***
NACE Q	0.000***	0.004***	-0.000***
NACE R+S	0.002***	-0.001***	0.001***
reference: private ownership of a firm			
public ownership of a firm	0.003***	0.017***	-0.001***
tenure: less than 2 years (share)	0.006***	0.024***	0.005***
age: 50 years or more (share)	0.001***	-0.010***	0.000***
tertiary education (share)	0.015***	-0.026***	-0.005***
female (share)	0.001***	-0.024***	0.001***
(· · · · /		-	
constant		0.057***	
total	0.046***	-0.055***	0.005***
Observations		1,446,198	
Table represent the results of the Blinder-Ograca	decomposition of		normalized log hourly

Observations 1,446,198

Table represent the results of the Blinder-Oaxaca decomposition of changes in variance of normalized log hourly wages between 2006 and 2014 based on the RIF regression results from Table A.13. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

* p < 0.1, ** p < 0.05, ***p < 0.01Data: European Structure of Earnings Survey.

Table A.19: Results of RIF regression: Bulgaria and Romania (excluding public sector)

	Bulgaria				Romania			
	2002	2006	2010	2014	2002	2006	2010	2014
Individual effects								
reference: primary education								
tertiary education	0.106***	0.057***	0.034***	0.000	0.406***	0.018***	0.043***	-0.065***
secondary education	-0.001	-0.024***	-0.020***	-0.019***	-0.016***	-0.003	-0.002	-0.001
reference: under 30 years old								
30-49 years old	0.009**	0.019***	0.064***	0.094***	0.017***	0.038***	0.073***	0.092***
50 years old or more	0.006	-0.003	0.042***	0.077***	0.084***	0.068***	0.074***	0.084***
reference: male								
female	-0.062***	-0.063***	-0.067***	-0.075***	-0.041***	-0.038***	-0.033***	-0.060***
reference: tenure of less than a year								
tenure: 1-4 years	0.004	0.024***	0.010**	0.003	0.002	-0.000	0.009**	-0.004
tenure: 5-9 years	0.033***	0.066***	0.031***	0.016***	-0.015**	0.027***	0.012**	0.011**
tenure: 10 years or more	0.079***	0.170***	0.093***	0.059***	-0.009	0.022***	0.026***	0.048***
reference: ISCO 5								
ISCO 1	0.679***	0.715***	0.788***	0.879***	0.710***	1.136***	0.847***	0.844***
ISCO 2	0.226***	0.339***	0.369***	0.421***	-0.140***	0.444***	0.197***	0.324***
ISCO 3	0.091***	0.028***	0.054***	0.004	-0.107***	0.033***	-0.063***	-0.060***
ISCO 4	-0.052***	-0.095***	-0.109***	-0.101***	-0.206***	-0.060***	-0.161***	-0.130***
ISCO 6	0.063	0.028	0.076**	0.908***	-0.123***	0.043	-0.065*	-0.035
ISCO 7	0.063***	0.019***	-0.019***	-0.034***	-0.152***	-0.065***	-0.098***	-0.088***
ISCO 8	0.026***	-0.029***	-0.015	-0.095***	-0.168***	-0.083***	-0.129***	-0.127***
ISCO 9	0.001	0.002	0.024***	0.029***	-0.100***	0.001	0.018***	-0.042***
reference: permanent contract	0.001	0.002	0.024	0.023	-0.100	0.001	0.010	-0.042
fixed contract	0.012**	0.025***	-0.005	0.063***	-0.020	-0.029**	0.025***	-0.036***
nace contract	0.012	0.025	0.000	0.000	0.020	0.025	0.020	0.000
Firm effects								
reference: NACE C								
NACE B	0.134***	0.176***	0.128***	0.202***	0.126***	0.354***	0.235***	0.669***
NACE D+E	0.217***	0.217***	0.097***	0.040***	-0.021	0.056***	0.004	0.013
NACE F	-0.042***	-0.088***	-0.026***	-0.043***	-0.041***	0.025***	-0.011**	-0.064***
NACE G	-0.017***	-0.046***	-0.066***	-0.092***	-0.013**	0.013***	-0.038***	-0.062***
NACE H+J	0.078***	0.065***	0.194***	0.193***	0.221***	0.104***	0.055***	0.090***
NACE I	0.092***	-0.002	-0.046***	-0.113***	0.015	0.031***	-0.009	-0.012
NACE K	0.410***	0.204***	0.067***	0.005	0.477***	0.679***	0.426***	0.266***
NACE L+M+N	0.012	0.055***	0.117***	0.081***	-0.012	0.116***	0.015***	-0.017***
NACE P	0.055	-0.097***	-0.063**	-0.272***	-0.175***	-0.020	-0.275***	-0.285***
NACE Q	-0.328***	-0.574***	-0.167***	-0.181***	-0.437***	-0.195***	-0.290***	-0.351***
NACE R+S	-0.055***	-0.043***	-0.107	-0.207***	0.063***	-0.133	-0.101***	-0.139***
tenure: less than 2 years (share)	-0.035***	-0.044***	0.055***	0.072***	0.004	0.004	0.017***	0.064***
age: 50 years or more (share)	-0.649***	-0.381***	-0.355***	-0.422***	-0.497***	-0.299***	-0.170***	-0.190***
tertiary education (share)	0.412***	0.599***	0.470***	0.371***	1.076***	0.349***	0.678***	0.684***
female (share)	-0.170***	-0.081***	0.023***	-0.034***	-0.004	-0.013**	0.023***	-0.019***
constant	0.476***	0.324***	0.025	0.247***	0.377***	0.241***	0.025	0.146***
Observations	84.017	106,996	123,992	124,450	144,604	173,531	168,987	175,087
	0.207	0.254	0.274	0.279	0.284	0.290	0.288	0.312
R-squared	0.207	0.204	0.274	0.219	0.284	0.290	0.200	0.312

Table shows the coefficients estimated by Recentered Influence Function regression (Firpo, Forlin, & Lemieux, 2018). The coefficients measure the impact of an infinitesimal shift to the right in the distribution of the regressors on variance of normalized log hourly wages in a given country in a given year. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

*p<0.1, **p<0.05 ***p<0.01

Data: European Structure of Earnings Survey.

Table A.20: Results of RIF regression: Czechia and Slovakia (excluding public sector)

	Czechia				Slovakia			
	2002	2006	2010	2014	2002	2006	2010	2014
Individual effects								
reference: primary education								
tertiary education	0.247***	0.238***	0.229***	0.158***	0.089***	0.127***	0.123***	0.056***
secondary education	-0.046***	-0.050***	-0.048***	-0.059***	-0.056***	-0.111***	-0.087***	-0.090***
reference: under 30 years old								
30-49 years old	0.042***	0.086***	0.105***	0.108***	0.044***	0.076***	0.099***	0.104***
50 years old or more	0.048***	0.079***	0.092***	0.101***	0.054***	0.058***	0.090***	0.091***
reference: male								
female	-0.053***	-0.053***	-0.057***	-0.060***	-0.043***	-0.057***	-0.063***	-0.055***
reference: tenure of less than a year								
tenure: 1-4 years	-0.007***	-0.009***	-0.002	-0.017***	0.004	0.011***	-0.005***	-0.022***
tenure: 5-9 years	-0.001	0.015***	0.004***	-0.008***	0.032***	0.034***	0.018***	-0.010***
tenure: 10 years or more	-0.017***	0.007***	0.021***	-0.001	0.007	0.050***	0.018***	0.004**
reference: ISCO 5								
ISCO 1	0.335***	0.379***	0.455***	0.529***	0.480***	0.544***	0.518***	0.481***
ISCO 2	-0.172***	-0.074***	-0.008***	0.044***	-0.049***	-0.038***	0.039***	0.028***
ISCO 3	-0.111***	-0.106***	-0.110***	-0.127***	-0.157***	-0.096***	-0.070***	-0.090***
ISCO 4	-0.114***	-0.146***	-0.175***	-0.183***	-0.142***	-0.102***	-0.120***	-0.134***
ISCO 6	-0.036***	0.004	-0.092***	-0.105***	-0.058	0.036**	0.017	-0.056***
ISCO 7	-0.136***	-0.134***	-0.140***	-0.156***	-0.149***	-0.099***	-0.077***	-0.084***
ISCO 8	-0.151***	-0.153***	-0.150***	-0.154***	-0.146***	-0.122***	-0.105***	-0.099***
ISCO 9	-0.050***	-0.016***	0.004**	-0.008***	-0.024***	-0.003	0.008***	-0.001
reference: permanent contract								
fixed contract	0.014***	0.030***	0.008***	-0.014***	0.006	0.000	0.018***	0.002
Firm effects								
reference: NACE C								
NACE B	0.035***	0.057***	0.048***	0.054***	-0.013	-0.071***	0.024***	0.063***
NACE D+E	-0.003	0.031***	0.017***	-0.035***	0.047***	0.004	0.088***	0.096***
NACE F	-0.005***	-0.001	-0.003**	-0.051***	0.006	-0.015***	-0.009***	0.014***
NACE G	-0.029***	0.005***	-0.016***	-0.005***	0.069***	-0.027***	-0.012***	-0.024***
NACE H+J	0.040***	0.101***	0.119***	0.082***	0.033***	0.039***	0.094***	0.105***
NACE I	0.022***	0.012***	0.148***	0.082***	0.040***	0.049***	0.031***	0.008**
NACE K	0.032***	0.201***	0.177***	0.123***	0.019**	0.026***	0.008**	0.026***
NACE L+M+N	-0.006***	-0.011***	0.044***	0.033***	0.189***	0.032***	0.024***	0.050***
NACE P	-0.042***	-0.252***	-0.304***	-0.353***	-0.331***	-0.308***	-0.401***	-0.255***
NACE Q	-0.069***	-0.130***	-0.107***	-0.082***	0.111***	-0.069***	-0.070***	-0.027***
NACE R+S	-0.018***	0.011***	0.013***	-0.011***	-0.101***	-0.059***	-0.173***	-0.041***
tenure: less than 2 years (share)	0.018***	0.039***	0.069***	0.071***	0.024***	-0.031***	0.018***	0.030***
age: 50 years or more (share)	-0.206***	-0.169***	-0.117***	-0.081***	-0.394***	-0.295***	-0.202***	-0.180***
tertiary education (share)	0.164***	0.295***	0.164***	0.251***	0.223***	0.373***	0.312***	0.183***
female (share)	0.057***	0.107***	0.045***	0.022***	0.075***	0.031***	0.065***	0.048***
constant	0.304***	0.211***	0.207***	0.236***	0.346***	0.345***	0.230***	0.251***
Observations	600,224	1,007,549	1,152,883	1,242,217	247,517	441,569	503,585	572,365
R-squared	0.212	0.235	0.236	0.251	0.131	0.224	0.242	0.216

Table shows the coefficients estimated by Recentered Influence Function regression (Firpo, Fortin, & Lemieux, 2018). The coefficients measure the impact of an infinitesimal shift to the right in the distribution of the regressors on variance of normalized log hourly wages in a given country in a given year. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

*p<0.1, **p<0.05 ***p<0.01

Data: European Structure of Earnings Survey.

Table A.21: Results of RIF regression: Estonia and Poland (excluding public sector)

	Estonia			Poland				
	2006	2010	2014	2002	2006	2010	2014	
Individual effects							-	
reference: primary education								
tertiary education	0.129***	0.084***	0.112***	0.301***	0.267***	0.172***	0.126***	
secondary education	-0.017***	-0.030***	-0.013***	-0.012***	-0.005	-0.016***	-0.020***	
reference: under 30 years old	0.0	0.000	0.0-0	*****	0.000	0.020	0.0-0	
30-49 years old	0.077***	0.091***	0.091***	0.098***	0.129***	0.131***	0.132***	
50 years old or more	0.044***	0.068***	0.068***	0.152***	0.170***	0.150***	0.142***	
reference: male								
female	-0.054***	-0.061***	-0.081***	-0.056***	-0.077***	-0.084***	-0.092***	
reference: tenure of less than a year	0.00-	0.00-	0.002	0.000		0.00-	*****	
tenure: 1-4 years	-0.026***	-0.014***	-0.006	-0.028***	-0.008**	-0.008***	0.003	
tenure: 5-9 years	0.006	-0.013**	0.005	-0.012***	0.003	0.000	-0.001	
tenure: 10 years or more	-0.015**	-0.016***	-0.009*	-0.049***	-0.025***	0.011***	0.035***	
reference: ISCO 5	0.010	0.010	0.000	0.010	0.020	0.011	0.000	
ISCO 1	0.461***	0.518***	0.369***	0.681***	0.521***	0.509***	0.482***	
ISCO 2	0.184***	0.132***	0.134***	0.042***	-0.075***	-0.026***	-0.052***	
ISCO 3	0.009	-0.071***	-0.025***	-0.083***	-0.164***	-0.120***	-0.133***	
ISCO 4	-0.133***	-0.156***	-0.135***	-0.170***	-0.204***	-0.178***	-0.183***	
ISCO 6	0.175	0.129**	-0.097*	-0.122***	-0.208***	0.033	-0.073***	
ISCO 7	-0.017***	-0.063***	-0.028***	-0.068***	-0.118***	-0.080***	-0.091***	
ISCO 8	-0.047***	-0.075***	-0.073***	-0.126***	-0.178***	-0.124***	-0.140***	
ISCO 9	0.124***	0.061***	0.051***	-0.031***	-0.057***	-0.011***	-0.010***	
reference: permanent contract	0.121	0.001	0.001	0.001	0.001	0.011	0.010	
fixed contract	0.048***	0.070***	0.083***					
nked contract	0.010	0.010	0.000					
Firm effects								
reference: NACE C								
NACE B	0.011	0.103***	0.094***	0.257***	0.423***	0.178***	0.278***	
NACE D+E	-0.081***	-0.034**	-0.031**	0.070***	0.040***	0.018***	0.071***	
NACE F	0.034***	0.017***	0.006	-0.030***	-0.038***	-0.016***	-0.017***	
NACE G	0.055***	0.018***	0.048***	-0.043***	-0.060***	-0.035***	-0.006**	
NACE $H+J$	0.038***	0.106***	0.110***	0.087***	0.049***	0.052***	0.054***	
NACE I	0.065***	0.031***	0.028***	0.026***	-0.008	-0.019***	-0.016***	
NACE K	0.172***	0.159***	0.187***	-0.122***	0.062***	0.020***	-0.013***	
NACE L+M+N	0.113***	0.037***	0.085***	0.006	0.017***	0.032***	0.024***	
NACE P	-0.218***	-0.248***	-0.081***	-0.096***	-0.393***	-0.336***	-0.261***	
NACE Q	0.012	0.013	0.033***	-0.260***	-0.205***	-0.126***	-0.108***	
NACE R+S	-0.001	0.016	0.013	-0.031***	0.013	0.040***	0.044***	
tenure: less than 2 years (share)	-0.044***	0.053***	0.022***	0.078***	0.050***	0.039***	0.038***	
age: 50 years or more (share)	-0.116***	-0.106***	-0.058***	-0.297***	-0.166***	-0.151***	-0.089***	
tertiary education (share)	0.089***	0.149***	0.070***	0.758***	0.511***	0.434***	0.367***	
female (share)	-0.032***	0.051***	0.054***	0.105***	0.040***	0.032***	0.000	
constant	0.249***	0.193***	0.162***	0.195***	0.227***	0.139***	0.138***	
Observations	76,863	66,752	69,999	293,325	316.821	336,871	404,022	
R-squared	0.190	0.225	0.165	0.269	0.245	0.252	0.227	

R-squared 0.190 0.225 0.165 0.269 0.245 0.252 0.257

Table shows the coefficients estimated by Recentered Influence Function regression (Firpo, Fortin, & Lemieux, 2018). The coefficients measure the impact of an infinitesimal shift to the right in the distribution of the regressors on variance of normalized log hourly wages in a given country in a given year. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

* p < 0.1, ** p < 0.05 ***p < 0.05 ***p < 0.01 ** p < 0.05 ***p < 0.01 ***p < 0.05 ***p < 0.01 ***p < 0.05 ***p < 0.05 ***p < 0.01 ***p < 0.05 ***p < 0.01 ***p < 0.05 ***p < 0.0

Table A.22: Results of RIF regression: Lithuania and Latvia (excluding public sector)

		Lithuani	a		Latvia			
	2002	2006	2010	2014	2006	2010	2014	
Individual effects								
reference: primary education								
tertiary education	0.178***	0.174***	0.084***	0.001	0.103***	0.055***	0.054***	
secondary education	0.005	0.003	-0.050***	-0.026**	-0.029***	-0.044***	-0.024***	
reference: under 30 years old								
30-49 years old	0.017***	0.059***	0.098***	0.114***	0.079***	0.108***	0.117***	
50 years old or more	0.004	0.033***	0.079***	0.097***	0.038***	0.067***	0.091***	
reference: male								
female	-0.078***	-0.079***	-0.094***	-0.109***	-0.091***	-0.093***	-0.073***	
reference: tenure of less than a year								
tenure: 1-4 years	0.007	0.023***	-0.003	-0.010	0.014***	0.008**	0.017***	
tenure: 5-9 years	0.051***	0.083***	0.010	-0.012	0.075***	0.030***	0.032***	
tenure: 10 years or more	0.034***	0.099***	0.065***	0.025**	0.083***	0.033***	0.005	
reference: ISCO 5								
ISCO 1	0.451***	0.323***	0.438***	0.714***	0.378***	0.446***	0.418***	
ISCO 2	0.092***	-0.021**	-0.040**	0.111***	0.142***	0.155***	0.213***	
ISCO 3	0.024**	-0.032***	-0.073***	-0.040***	-0.053***	-0.014**	-0.049***	
ISCO 4	-0.086***	-0.157***	-0.171***	-0.127***	-0.135***	-0.099***	-0.122***	
ISCO 6	0.105	0.079	0.117	-0.221	0.055**	0.079**	0.097**	
ISCO 7	0.013	-0.023***	-0.057***	-0.016	-0.012*	0.030***	0.015*	
ISCO 8	0.010	-0.067***	-0.107***	-0.068***	-0.024***	0.021***	-0.002	
ISCO 9	0.006	0.010	0.059***	0.027**	0.015**	0.036***	0.034***	
reference: permanent contract								
fixed contract	-0.027***	0.063***	0.035**	0.025**	0.077***	0.047***	0.021**	
Firm effects								
reference: NACE C								
NACE B	0.105***	0.046*	-0.029	-0.066	-0.028	-0.050***	-0.006	
NACE D+E	-0.023	-0.082***	-0.005	0.019	0.095***	-0.020	-0.054***	
NACE F	-0.017**	0.104***	-0.022	-0.055***	-0.009	-0.039***	-0.040***	
NACE G	-0.007	-0.007	-0.011	0.007	0.027***	-0.015***	-0.008	
NACE H $+J$	0.072***	0.068***	0.075***	0.071***	0.062***	0.084***	0.090***	
NACE I	0.016	0.035***	-0.045	0.012	0.063***	0.038***	0.001	
NACE K	0.255***	0.293***	0.152***	0.178***	0.272***	0.200***	0.276***	
NACE L $+$ M $+$ N	-0.035***	-0.017*	0.068***	0.051***	0.099***	0.001	0.021**	
NACE P	-0.071**	0.057	0.000	-0.215***	-0.111***	-0.208***	-0.293***	
NACE Q	-0.114***	-0.009	0.144***	0.038	0.022	-0.005	0.087***	
NACE R $+$ S	0.030*	-0.025*	0.012	-0.043	0.036***	-0.002	0.119***	
tenure: less than 2 years (share)	-0.047***	0.040***	0.030*	-0.033**	0.007	0.075***	0.036***	
age: 50 years or more (share)	-0.299***	-0.107***	-0.152***	-0.145***	-0.308***	-0.299***	-0.189***	
tertiary education (share)	0.435***	0.264***	0.251***	0.200***	0.377***	0.381***	0.281***	
female (share)	-0.076***	-0.018*	-0.002	0.049***	-0.055***	0.009	-0.000	
constant	0.318***	0.212***	0.249***	0.187***	0.413***	0.205***	0.166***	
Observations	67,576	71,351	13,189	18,833	151,134	108,080	58,685	
R-squared	0.193	0.152	0.215	0.269	0.135	0.203	0.180	

Table shows the coefficients estimated by Recentered Influence Function regression (Firpo, Fortin, & Lemieux, 2018). The coefficients measure the impact of an infinitesimal shift to the right in the distribution of the regressors on variance of normalized log hourly wages in a given country in a given year. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

* p<0.1, ** p<0.05 ***p<0.01

Data: European Structure of Earnings Survey.

Table A.23: Results of RIF regression: Hungary (excluding public sector)

Hungary 2006 2010 2014Individual effects reference: primary education 0.321*** 0.332*** 0.230*** tertiary education -0.012*** -0.028*** secondary education -0.004 reference: under 30 years old 0.100*** 0.108*** 0.007*** 30-49 years old 50 years old or more 0.086*** 0.094*** 0.101*** reference: male female -0.075*** -0.072*** -0.063*** reference: tenure of less than a year tenure: 1-4 years -0.004 -0.026*** 0.0040.016*** 0.046*** 0.029*** -0.010** tenure: 5-9 years tenure: 10 years or more 0.034*** 0.005reference: ISCO 5 ISCO 1 0.364*** 0.100*** -0.098*** -0.150*** -0.003 -0.104*** 0.373*** 0.128*** -0.091*** -0.117*** -0.016 -0.081*** 0.458*** 0.127*** -0.076*** -0.117*** 0.000 -0.054*** ISCO 2 ISCO 3 ISCO 4 ISCO 6 ISCO 7 ISCO 8 -0.148*** -0.080*** 0.065*** -0.090*** ISCO 9 -0.0040.013 reference: permanent contract 0.033*** 0.023*** fixed contract 0.001 Firm effects reference: NACE C NACE B 0.065*** 0.025 0.021 NACE D+E 0.054*** 0.016*** 0.028*** -0.018*** 0.006 -0.013** NACE F -0.003 0.107*** -0.031*** 0.209*** -0.063*** 0.050*** -0.021*** 0.031*** NACE G NACE H+J -0.022*** 0.148*** -0.038*** 0.206*** NACE I NACE K NACE L+M+N NACE P -0.017*** -0.528*** 0.019*** -0.497*** -0.016*** -0.426*** -0.528*** -0.130*** -0.079*** 0.044*** -0.259*** -0.426*** -0.062*** -0.069*** 0.047*** -0.145*** 0.306*** 0.009 NACE Q -0.142*** -0.144*** NACE R+S tenure: less than 2 years (share) 0.049*** -0.191*** age: 50 years or more (share) 0.446*** 0.349*** 0.048*** tertiary education (share) -0.016** 0.260*** 124,960 female (share) 0.009 0.174*** 136,216 constant Observations 0.175*** 122,372 R-squared 0.288 0.2760.284

Table shows the coefficients estimated by Recentered Influence Function regression (Firpo, Fortin, & Lemieux, 2018). The coefficients measure the impact of an infinitesimal shift to the right in the distribution of the regressors on variance of normalized log hourly wages in a given country in a given year. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

*p<0.0.1, **p<0.0.05 ***p<0.001

Table A.24: Blinder-Oaxaca decomposition: Bulgaria and Romania (excluding public sector)

reference: primary education tetriary education		В	ulgaria			Romania	
reference: primary education tetriary education		Endowments	Coefficients	Interaction	Endowments	Coefficients	Interaction
tertiary education 0.005*** - 0.011*** - 0.005** 0.000** - 0.018*** - 0.002*** secondary education	Individual effects						
secondary education	reference: primary education						
reference: under 30 years old 30-49 years old 0 0.00 0.33*** 0.000 0.000 0.002*** 0.003** 0.001** reference: male female	tertiary education	0.005***	-0.011***	-0.005***	0.000***	-0.018***	-0.002***
30-49 years old 0.000 0.033*** 0.000 0.000*** 0.002*** 0.000** 0.001*** reference: male reference: tenure of less than a year tenure: 1-4 years tenure: 0.001*** 0.003*** 0.000** 0.000** 0.000** 0.000** tenure: 5-9 years 0.005*** 0.000*** 0.001*** 0.000** 0.000** tenure: 10 years or more 0.002*** 0.001*** 0.001*** 0.001*** 0.000** tenure: 10 years or more 0.002*** 0.007*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.002*** 0.007*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.004*** 0.007*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.004** 0.007*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.004** 0.007*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.004** 0.007*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.002*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.002*** 0.004*** 0.007*** 0.001*** 0.000*** tenure: 10 years or more 0.002*** 0.004*** 0.001*** 0.000*** 0.000*** tenure: 10 years or more 0.002*** 0.001*** 0.001*** 0.000*** 0.000*** tenure: 10 years or more 0.002*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.002*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.002*** 0.000*** tenure: 10 years or more 0.002*** 0.000*** tenure: 10 years or more 0.002*** 0.000*** tenure: 10 years or more 0.000*** tenure: 10 years or more 0.000*** 0.000*** tenure: 10 years or more 0.000**	secondary education	0.001***	0.004	-0.000	-0.000	0.002	0.000
30-49 years old 0.000 0.033*** 0.000 0.000*** 0.002*** 0.000** 0.001*** reference: male reference: tenure of less than a year tenure: 1-4 years tenure: 0.001*** 0.003*** 0.000** 0.000** 0.000** 0.000** tenure: 5-9 years 0.005*** 0.000*** 0.001*** 0.000** 0.000** tenure: 10 years or more 0.002*** 0.001*** 0.001*** 0.001*** 0.000** tenure: 10 years or more 0.002*** 0.007*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.002*** 0.007*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.004*** 0.007*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.004** 0.007*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.004** 0.007*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.004** 0.007*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.002*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.002*** 0.004*** 0.007*** 0.001*** 0.000*** tenure: 10 years or more 0.002*** 0.004*** 0.001*** 0.000*** 0.000*** tenure: 10 years or more 0.002*** 0.001*** 0.001*** 0.000*** 0.000*** tenure: 10 years or more 0.002*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.002*** 0.001*** 0.001*** 0.000*** tenure: 10 years or more 0.002*** 0.000*** tenure: 10 years or more 0.002*** 0.000*** tenure: 10 years or more 0.002*** 0.000*** tenure: 10 years or more 0.000*** tenure: 10 years or more 0.000*** 0.000*** tenure: 10 years or more 0.000**	reference: under 30 years old						
50 years old or more reference: male		0.000	0.039***	0.000	0.000	0.032***	0.000
female	50 years old or more	-0.000	0.021***	0.002***	0.002***	0.003**	0.001**
reference: tenure of less than a year tenure: 1-4 years	reference: male						
reference: tenure of less than a year tenure: 1-4 years	female	-0.001***	-0.005**	-0.000**	0.000**	-0.009***	0.000**
tenure: 1-4 years	reference: tenure of less than a year						
tenure: 5-9 years		-0.001***	-0.009***	0.001***	0.000	-0.002	0.000
temure: 10 years or more 0.002^{***} -0.014^{***} -0.001^{***} -0.000 0.005^{***} -0.000 $reference: ISCO 5$ ISCO 2 0.004^{***} 0.005^{***} 0.003^{***} 0.011^{***} 0.0118^{***} -0.0112^{***} -0.005^{***} ISCO 2 0.014^{***} 0.000^{***} 0.005^{***} 0.003^{***} 0.0000^{***} 0.0000^{***} 0.0000^{***} 0.0000^{***		0.005***		-0.004***	0.002***	-0.003**	-0.001**
reference: ISCO 5 Signature Signature		0.002***	-0.014***	-0.001***	-0.000	0.005***	-0.000
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ISCO 1	0.004***	0.007***	0.001***	0.018***	-0.012***	-0.005***
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							
ISCO 7							
ISCO 8							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							
fixed contract -0.001*** 0.005*** -0.001*** -0.001** -0.000 -0.000 Firm effects reference: NACE C NACE B -0.001*** 0.000 -0.000 -0.005*** 0.007*** -0.004*** NACE D+E 0.002*** -0.003*** -0.002*** -0.000*** -0.000** -0.000** -0.000** -0.000** -0.000** -0.000** -0.000*** -0.000*** -0.000** -0.000*** -0.001*** -0.001*** -0.001*** -0.001*** -0.001*** -0.001*** -0.001*** -0.001*** -0.001*** -0.001*** -0.001*** -0.001*** -0.006*** -0.006*** -0.001*** -0.001*** -0.001*** -0.001***		0.000	0.000	0.001	0.000	0.001	0.001
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	fixed contract	-0.001***	0.005***	-0.001***	-0.001**	-0.000	-0.000
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Firm effects						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
NACE D+E		-0.001***	0.000	-0.000	-0.005***	0.007***	-0.004***
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
NACE R+S $ -0.000 & -0.004^{***} & -0.000 & 0.000 & -0.002^{***} & 0.000 \\ \text{tenure: less than 2 years (share)} & 0.004^{***} & 0.068^{***} & -0.010^{***} & -0.000 & 0.030^{***} & -0.005^{***} \\ \text{age: 50 years or more (share)} & -0.011^{***} & -0.011^{***} & -0.001^{***} & -0.011^{***} & 0.018^{***} & 0.004^{***} \\ \text{tertiary education (share)} & 0.054^{***} & -0.044^{***} & -0.021^{***} & 0.006^{***} & 0.076^{***} & 0.006^{***} \\ \text{female (share)} & -0.001^{***} & 0.021^{***} & 0.001^{***} & 0.000^{*} & -0.003 & 0.000 \\ \\ \text{constant} & -0.077^{***} & -0.036^{***} & -0.027^{***} & 0.054^{***} & -0.055^{***} & -0.020^{***} \\ \end{array}$							
tenure: less than 2 years (share) 0.004^{***} 0.068^{***} -0.010^{***} -0.000 0.030^{***} -0.005^{***} age: 50 years or more (share) -0.011^{***} -0.011^{***} -0.001^{***} -0.011^{***} 0.018^{***} 0.004^{***} tertiary education (share) 0.054^{***} -0.044^{***} -0.021^{***} 0.006^{***} 0.006^{***} 0.006^{***} 0.006^{***} female (share) 0.001^{***} 0.001^{**} 0.001^{***} 0.001^{***} 0.001^{***} 0.001^{***} 0.00							
age: 50 years or more (share) $ \begin{array}{ccccccccccccccccccccccccccccccccccc$							
tertiary education (share) 0.054^{***} -0.044^{***} -0.021^{***} 0.006^{***} 0.076^{***} 0.006^{***} female (share) -0.001^{***} 0.021^{***} 0.001^{***} 0.001^{***} 0.000^{*} -0.003 0.000 constant -0.075^{***} -0.036^{***} -0.036^{***} -0.027^{***} 0.054^{***} -0.055^{***} -0.020^{***}							
female (share) $ -0.001^{***} 0.021^{***} 0.001^{***} 0.000^{*} -0.003 0.000 $ constant $ -0.077^{***} -0.036^{***} -0.027^{***} 0.054^{***} -0.055^{***} -0.020^{***} $ total $ 0.078^{***} -0.036^{***} -0.027^{***} 0.054^{***} -0.055^{***} -0.020^{***} $							
total 0.078^{***} -0.036^{***} -0.027^{***} 0.054^{***} -0.055^{***} -0.020^{***}	female (share)						
total 0.078^{***} -0.036^{***} -0.027^{***} 0.054^{***} -0.055^{***} -0.020^{***}	constant		-0.077***			-0.095***	
		0.078***		-0.027***	0.054***		-0.020***
UDServations 231 446 338 618	Observations	0.010	231,446	0.027	0.001	348.618	0.020

Table represent the results of the Blinder-Oaxaca decomposition of changes in variance of normalized log hourly wages between 2006 and 2014 based on the RIF regression results from Table A.9. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

* p<0.1, ** p<0.05, ***p<0.01

Data: European Structure of Earnings Survey.

Table A.25: Blinder-Oaxaca decomposition: Czechia and Slovakia (excluding public sector)

	(Czechia		Slovakia			
	Endowments	Coefficients	Interaction	Endowments	Coefficients	Interaction	
Individual effects							
reference: primary education							
tertiary education	0.006***	-0.009***	-0.002***	0.008***	-0.011***	-0.005***	
secondary education	0.000***	-0.007***	0.000***	0.007***	0.016***	-0.001***	
reference: under 30 years old							
30-49 years old	0.003***	0.011***	0.001***	0.000***	0.015***	0.000***	
50 years old or more	-0.001***	0.006***	-0.000***	0.002***	0.008***	0.001***	
reference: male							
female	-0.001***	-0.003***	-0.000***	0.000**	0.001	-0.000	
reference: tenure of less than a year							
tenure: 1-4 years	0.000***	-0.003***	0.000***	-0.001***	-0.013***	0.002***	
tenure: 5-9 years	0.000***	-0.005***	-0.000***	0.001***	-0.010***	-0.001***	
tenure: 10 years or more	0.000***	-0.002***	-0.000***	0.002***	-0.011***	-0.001***	
reference: ISCO 5							
ISCO 1	-0.009***	0.010***	-0.003***	0.001***	-0.003***	-0.000***	
ISCO 2	-0.001***	0.009***	0.002***	-0.002***	0.005***	0.003***	
ISCO 3	0.001***	-0.004***	0.000***	0.002***	0.001*	-0.000*	
ISCO 4	-0.001***	-0.003***	-0.000***	-0.002***	-0.002***	-0.001***	
ISCO 6	0.000	-0.000***	-0.000***	-0.000*	-0.000***	0.000***	
ISCO 7	0.007***	-0.005***	0.001***	0.008***	0.004***	-0.001***	
ISCO 8	-0.003***	-0.000	-0.000	-0.002***	0.005***	0.000***	
ISCO 9	-0.000***	0.001***	0.000***	0.000	0.000	-0.000	
reference: permanent contract	0.000	0.001	0.000	0.000	0.000	0.000	
fixed contract	0.001***	-0.007***	-0.002***	0.000	0.000	0.000	
Firm effects							
reference: NACE C							
NACE B	-0.000***	-0.000	0.000	0.000***	0.001***	-0.000***	
NACE D+E	0.000***	-0.001***	-0.000***	0.000	0.001***	0.001***	
NACE F	0.000	-0.004***	0.001***	0.000***	0.002***	-0.001***	
NACE G	-0.000***	-0.002***	0.000***	-0.000***	0.001	0.000	
NACE H+J	0.004***	-0.001***	-0.001***	0.002***	0.003***	0.003***	
NACE I	0.000***	0.002***	0.000***	-0.000***	-0.001***	0.000***	
NACE K	0.001***	-0.002***	-0.000***	0.000***	-0.000	-0.000	
NACE L+M+N	-0.000***	0.005***	0.001***	0.001***	0.002***	0.001***	
NACE P	0.001***	-0.001***	0.000***	-0.000***	0.001***	0.000***	
NACE Q	-0.001***	0.001***	0.000***	-0.000***	0.002***	0.000***	
NACE R+S	0.000***	-0.000***	-0.000***	0.001***	0.001***	-0.000***	
tenure: less than 2 years (share)	-0.001***	0.013***	-0.001***	0.002***	0.025***	-0.004***	
age: 50 years or more (share)	0.003***	0.013	-0.001	-0.008***	0.028***	0.003***	
tertiary education (share)	0.003	-0.005***	-0.002	0.024***	-0.030***	-0.012***	
female (share)	0.007	-0.032***	-0.002***	-0.000***	0.007***	-0.000***	
constant		0.026***			-0.094***		
total	0.019***	0.020	-0.007***	0.048***	-0.048***	-0.014***	
	0.013	2,249,766	-0.007	0.040	1,013,934	-0.014	
Observations		4,249,700			1,015,934		

Table represent the results of the Blinder-Oaxaca decomposition of changes in variance of normalized log hourly wages between 2006 and 2014 based on the RIF repression results from Table A.10. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

* p<0.1, ** p<0.05, ***p<0.01

Data: European Structure of Earnings Survey.

Table A.26: Blinder-Oaxaca decomposition: Estonia and Poland (excluding public sector)

	F	Estonia			Poland	
	Endowments	Coefficients	Interaction	Endowments	Coefficients	Interaction
Individual effects						
reference: primary education						
tertiary education	-0.001***	-0.003*	0.000*	0.029***	-0.027***	-0.015***
secondary education	0.000***	0.003	-0.000	0.001	-0.011***	0.001***
reference: under 30 years old						
30-49 years old	-0.000**	0.007**	-0.000*	0.004***	0.001	0.000
50 years old or more	0.002***	0.007***	0.001***	0.004***	-0.006***	-0.001***
reference: male						
female	0.002***	-0.014***	0.001***	-0.000	-0.006***	-0.000
reference: tenure of less than a year						
tenure: 1-4 years	0.003***	0.009***	-0.002***	0.001**	0.005***	-0.001***
tenure: 5-9 years	-0.000	-0.000	0.000	0.000	-0.001	-0.000
tenure: 10 years or more	-0.001**	0.001	0.000	-0.000***	0.016***	0.000***
reference: ISCO 5						
ISCO 1	0.002***	-0.006***	-0.000***	0.008***	-0.003***	-0.001***
ISCO 2	0.004***	-0.003***	-0.001***	-0.004***	0.003***	0.001***
ISCO 3	0.000	-0.005***	-0.001***	0.002***	0.004***	-0.000***
ISCO 4	0.000**	-0.000	0.000	0.003***	0.002***	-0.000***
ISCO 6	0.000	-0.000*	-0.000*	-0.000***	0.000***	0.000**
ISCO 7	0.000**	-0.002	0.000	0.004***	0.006***	-0.001***
ISCO 8	0.002***	-0.005***	0.001***	0.001***	0.006***	-0.000***
ISCO 9	0.001***	-0.009***	-0.000***	0.001***	0.004***	-0.001***
reference: permanent contract						
fixed contract	-0.001***	0.002***	-0.001***			
Firm effects						
reference: NACE C						
NACE B	0.000	0.001***	0.000	0.002***	-0.001***	-0.001***
NACE D $+$ E	-0.000*	0.001**	0.000	0.001***	0.000**	0.000**
NACE F	0.000**	-0.002***	-0.000**	0.000	0.002***	-0.000
NACE G	0.002***	-0.001	-0.000	0.000***	0.012***	-0.000***
NACE H+J	0.001***	0.006***	0.002***	0.002***	0.000	0.000
NACE I	0.001***	-0.001***	-0.001***	-0.000	-0.000	-0.000
NACE K	-0.002***	0.001	-0.000	0.000	-0.003***	-0.000
NACE L+M+N	-0.000	-0.003***	0.000	0.000***	0.001	0.000
NACE P	0.000	0.001***	-0.000	-0.003***	0.002***	0.001***
NACE Q	0.000	0.000	0.000	0.000***	0.002***	-0.000***
NACE R+S	-0.000	0.000	0.000	-0.000	0.000**	-0.000**
tenure: less than 2 years (share)	0.000	0.028***	-0.000	-0.001***	-0.004*	0.000*
age: 50 years or more (share)	-0.005***	0.016***	0.003***	-0.004***	0.015***	0.002***
tertiary education (share)	-0.004***	-0.004	0.001	0.055***	-0.028***	-0.015***
female (share)	0.001***	0.044***	-0.002***	0.000**	-0.016***	-0.000**
constant		-0.087***			-0.089***	
total	0.007***	-0.020***	0.001	0.104***	-0.113***	-0.030***
Observations		146,862			720,843	

Table represent the results of the Blinder-Oaxaca decomposition of changes in variance of normalized log hourly wages between 2006 and 2014 based on the RIF repression results from Table A.11. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

* p<0.1, ** p<0.05, ***p<0.01

Data: European Structure of Earnings Survey.

Table A.27: Blinder-Oaxaca decomposition: Lithuania and Latvia (excluding public sector)

	Lithuania			Latvia		
	Endowments	Coefficients	Interaction	Endowments	Coefficients	Interaction
Individual effects						
reference: primary education						
tertiary education	0.019***	-0.038***	-0.019***	0.006***	-0.012***	-0.003***
secondary education	-0.000	-0.021**	0.003**	0.002***	0.003	-0.000
reference: under 30 years old						
30-49 years old	-0.004***	0.030***	-0.004***	-0.001***	0.018***	-0.000***
50 years old or more	0.002***	0.014***	0.005***	0.001***	0.014***	0.002***
reference: male						
female	-0.001***	-0.013***	-0.000**	0.001***	0.008***	-0.000**
reference: tenure of less than a year						
tenure: 1-4 years	-0.001***	-0.014***	0.002***	-0.001***	0.001	-0.000
tenure: 5-9 years	0.004***	-0.014***	-0.005***	0.001***	-0.007***	-0.001***
tenure: 10 years or more	0.007***	-0.008***	-0.005***	0.005***	-0.008***	-0.005***
reference: ISCO 5	0.001	0.000	0.000	0.000	0.000	0.000
ISCO 1	-0.015***	0.045***	-0.018***	-0.002***	0.004***	-0.000**
ISCO 2	0.000	0.019***	-0.001*	0.001***	0.007***	0.001***
ISCO 3	-0.000**	-0.001	-0.000	0.001	0.000	-0.000
ISCO 4	0.000	0.001	-0.000	0.000	0.001	-0.000
ISCO 4	-0.000	-0.000	0.000	-0.000**	0.000	-0.000
ISCO 7	0.001**	0.002	-0.000	0.000*	0.005**	-0.001**
ISCO 7	-0.002***	-0.002	-0.000	-0.000**	0.003*	0.000
ISCO 8	0.000	0.002	0.001	0.000**	0.003	0.000
reference: permanent contract	0.000	0.002	0.001	0.000	0.002	0.000
fixed contract	0.003***	-0.001**	-0.002**	0.001***	-0.002***	-0.001***
Firm effects						
reference: NACE C						
NACE B	-0.000	-0.001**	0.000	-0.000	0.000	0.000
NACE D+E	-0.000***	0.001***	0.000**	0.001***	-0.001***	-0.001***
NACE F	-0.004***	-0.025***	0.006***	0.000	-0.004***	0.000***
NACE G	0.000	0.003	-0.001	-0.000***	-0.009***	0.001***
NACE H+J	0.003***	0.000	0.000	0.005***	0.002***	0.002***
NACE I	-0.001***	-0.001	0.000	0.000***	-0.003***	-0.000***
NACE K	0.001***	-0.002***	-0.000**	-0.001***	0.000	-0.000
NACE L+M+N	-0.001*	0.005***	0.002***	0.000**	-0.007***	-0.000**
NACE P	-0.000	-0.001***	0.000**	-0.000***	-0.002***	-0.000***
NACE Q	0.000	0.001	-0.000	0.000	0.001***	0.001***
NACE R+S	0.000*	-0.000	0.000	-0.001***	0.002***	-0.001***
tenure: less than 2 years (share)	-0.004***	-0.044***	0.007***	-0.001	0.017**	-0.002**
age: 50 years or more (share)	-0.008***	-0.008	-0.003	-0.010***	0.031***	0.004***
tertiary education (share)	0.027***	-0.014***	-0.007***	0.022***	-0.024***	-0.004
female (share)	-0.000	0.028***	0.000**	0.001***	0.025***	-0.000
constant		-0.025			-0.247***	
total	0.026***	-0.025	-0.038***	0.035***	-0.179***	-0.013***
Observations	0.020	90,184	0.000	0.000	209,819	-0.010
JUSCI VALIOIIS		90,104			209,019	

Table represent the results of the Blinder-Oaxaca decomposition of changes in variance of normalized log hourly wages between 2006 and 2014 based on the RIF repression results from Table A.12. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

* p<0.1, ** p<0.05, ***p<0.01

Data: European Structure of Earnings Survey.

Table A.28: Blinder-Oaxaca decomposition: Hungary (excluding public sector)

	Hungary		
Individual effects	Endowments	Coefficients	Interaction
reference: primary education			
	0.018***	-0.017***	-0.005***
tertiary education		-0.017***	0.003***
secondary education	0.000	-0.010	0.001
reference: under 30 years old	0.004***	0.001	0.000
30-49 years old	0.004***	-0.001	-0.000
50 years old or more	-0.000***	0.004**	-0.000**
reference: male	0.000***	0.005***	0.000***
female	0.002***	0.005***	-0.000***
reference: tenure of less than a year	0.000	0.000***	0.000*
tenure: 1-4 years	0.000	-0.009***	0.000*
tenure: 5-9 years	0.000***	-0.008***	-0.000***
tenure: 10 years or more	0.000	-0.006***	-0.000
reference: ISCO 5			
ISCO 1	-0.007***	0.008***	-0.002***
ISCO 2	0.003***	0.002*	0.001*
ISCO 3	-0.001***	0.003*	0.000*
ISCO 4	0.003***	0.003***	-0.001***
ISCO 6	0.000	0.000	-0.000
ISCO 7	-0.001***	0.011***	0.000***
ISCO 8	-0.004***	0.011***	0.002***
ISCO 9	-0.000	0.002	0.001
reference: permanent contract			
fixed contract	-0.000	0.002***	-0.001***
Firm effects			
reference: NACE C			
NACE B	0.000*	-0.000*	-0.000
NACE D+E	-0.000***	-0.001***	0.000***
NACE F	-0.000***	-0.002***	0.001***
NACE G	0.000	-0.003***	0.000***
NACE H+J	0.004***	-0.004***	-0.003***
NACE I	-0.000	0.000	0.000
NACE K	0.003***	-0.002***	-0.001***
NACE L+M+N	-0.000***	0.002	0.000
NACE P	0.004***	0.003***	-0.001***
NACE Q	0.000***	0.003	-0.000***
NACE R+S	0.000	0.000	-0.000
tenure: less than 2 years (share)	-0.000***	0.002	-0.000
	0.001***	0.002	-0.000
age: 50 years or more (share)	0.026***	-0.026***	-0.001***
tertiary education (share)	0.026**	0.011***	-0.008***
female (share)	0.000	0.011	-0.001
constant		-0.086***	
total	0.055***	-0.087***	-0.018***
Observations	*****	261,176	
m.u		*	

Observations

Table represent the results of the Blinder-Oaxaca decomposition of changes in variance of normalized log hourly wages between 2006 and 2014 based on the RIF regression results from Table A.13. Trimmed sample does not include the top 0.1% and the bottom 0.1% hourly wages. For the detailed explanation of ISCO and NACE codes see Table A.9.

*p<0.1, **p<0.05, ***p<0.01

Data: European Structure of Earnings Survey.