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Abstract: Based on empirical data from selected public universities in Khabarovsk, Russia, this paper compares first and fifth year students regarding their attitudes towards corruption in general and university corruption in particular. Even after making both groups of students comparable with respect to a range of socio-economic characteristics by a matching approach, the results suggest that fifth year students are more open to a range of informal and corrupt practices than first years. Our analysis therefore points to the possibility that the Russian higher education system might 'favor' compliance with corruption and informal practices, with potentially detrimental consequences for the Russian society as a whole.

Keywords: Russia, University, Corruption, Ambivalence, Academic Dishonesty, Higher Education, Matching

JEL Classification: D73.

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1. Introduction

Corruption in higher education takes place in many countries (Sweeney, Despota, Lindner, 2013). While in some countries, corruption is a deviation from the norm, in others, it is essentially ‘part of the system’ (Denisova-Schmidt and Huber, 2014, Denisova-Schmidt and Kryzhko, 2015, Denisova-Schmidt, Huber and Prytula, 2016). Corruption might be monetary or non-monetary; the latter might be even more detrimental, because it is more widespread and difficult to capture. Corruption in education, including higher education, appears particularly damaging, as it undermines public trust in one of the most important societal institutions.

In this paper, we aim at shedding light on the question of how university education might influence their students’ attitudes towards corruption. To do so, we compared first year students with students in their final year at Russian universities¹ after making them comparable in a range of background characteristics (such as gender, subject, university, reasons for getting a diploma, and exposure to informal practices during secondary education) based on nearest neighbor matching, see for instance Rubin (1974). In addition to university studies, several other factors may be in play, such as a simple ageing effect (i.e. people changing their views with age), a generational effect (i.e. people born earlier having different attitudes because of different experiences during formative years), or an attitude change influenced by nearing entry into the labor market. Russia represents a very suitable case for this research question: the country has a long tradition of higher education, a high number of students – currently about 80% of the age cohort – with a minimum number of drop-outs. Moreover, the university system in Russia is very similar to the secondary school system. Students are organized in groups, have classes which they are formally required to attend and the exams to be taken in a particular semester are prescribed by the university administration.

In spite of the existence of various innovative approaches to study educational corruption, many scholars work with Transparency International’s definition of corruption – ‘the abuse of entrusted power for private gain’ – and apply it to both public and private educational institutions (Chapman and Lindner 2014, Denisova-Schmidt 2015, 2016). In our paper, we use the definition provided by Transparency International as well, but expand it by examining the lack of academic integrity (Denisova-Schmidt, Huber and Prytula, 2016 and Denisova-Schmidt, Huber and Leontyeva, 2016). Violations of academic integrity might be considered in different settings: in the university admissions process, in the rules set for students, faculty and staff, in the governance of educational institutions (Heyneman 2004, 2013) (Table 1). Our results suggest that even after making first and fifth-year students comparable in a range of characteristics, fifth-year students are more open to several different types of informal and corrupt practices than first-years. Our analysis therefore points to the possibility that the Russian higher education system ‘favors’ corruption and informality.

Corruption in the educational sector is not a new phenomenon (Osipian 2007). It has been overlooked by researchers for many decades, however (Hallak and Poisson 2007, Heyneman 2013). When analyzing corruption in the educational sector today, scholars work with several definitions. Amundsen (2000) emphasizes the *forms of corruption* and focuses on embezzlement, bribery, fraud, extortion and favoritism. Tanaka (2001) highlights some *areas of corrupt behavior*: procurement,

¹ In the 2012-13 academic year, there were 1,046 universities in Russia, including 609 state and 437 private schools. In addition, there were more than 1,600 regional branches (Androushchak and Yudkevich 2012). About 40 universities have a special status; together, they enroll about 15% of all students in Russia. All of the universities receive priority financing from the state. In July 2013, 15 out of 40 universities were selected by the Ministry of Education and Science as prospective universities for entering world rankings: It was decided that least five Russian universities must enter top 100 in the world rankings and at least 15 should be in top 200 by 2020 – Project ‘5-100’ (see <http://5top100.ru/> for more) (Denisova-Schmidt and Leontyeva, 2013). Moreover, since 2012, the Russian government has been regularly monitoring all institutions and differentiates between those that are effective and ineffective. The study was conducted at universities deemed effective, and not at any of the 40 schools with special status.

administration and classroom. Hallak and Poisson (2007) also work with *areas of corrupt behavior*, but provide a much broader definition. They indicate ‘finance’, ‘allocation of specific allowances’, ‘construction, maintenance and school repairs’, ‘distribution of equipment, furniture and materials’, ‘writing of textbooks’, ‘teacher appointment, management and training’, ‘teacher behavior’, ‘information systems’, ‘examinations and diplomas, access to universities’ and ‘institutional accreditation’ as areas of possible corrupt behavior. Chapman (2002) stresses several *malpractices* at different levels: ministries, regional/district and international agencies as well as in the classroom. Rumyantseva (2005) distinguishes between *corruption with* and *corruption without student involvement*. Both forms of corruption influence the students’ culture and attitudes; the first one does it directly, and the second indirectly. Osipian (2009) defines corruption in education as *a system of all informal relations* aimed to regulate ‘unsanctioned access to material and nonmaterial assets’. Our paper will offer a new perspective on the role of universities in this process: do they possibly influence students’ attitudes towards corruption? We keep in mind, however, that some other factors might influence this attitude, such as aging and labor experience. To the best of our knowledge, this is not a question that has been discussed previously. We acknowledge that our research design and (relatively small) sample can lead only to the formulation of a hypothesis for further research.

Table 1: Some Types of Corruption in Higher Education

Areas	Examples	Some Citations
University admissions	admission based on <i>blat</i> ² manipulation during admission exams	Ledeneva 1998, Galitskii & Levin 2004, Denisova-Schmidt & Leontyeva 2014
Academic integrity (students)	cheating (crib sheets, copying off) plagiarism ‘outsourcing’ of homework ghostwriting of term papers/theses services, gifts, informal agreements, or payments in exchange for grades or preferential treatment	Bowers 1964, Sivak 2006, Latova & Latov 2007, Callahan 2010, Denisova-Schmidt 2013, Wei, Chesnut, Barnard-Brak, & Schmidt 2014, Denisova-Schmidt 2015.
Academic integrity (faculty)	plagiarism falsifying data ghostwriting academic collusion	Karabag & Berggren 2012, Oleinik 2012, Osipian 2012, Titaev 2012, Amos 2014, Bruton & Rachal 2015.
Academic integrity (staff)	misuse of university funds selling admissions manipulating accreditation	Zaborskaya et al. 2004, Rumyantseva 2005, Rimskii 2010, Ganesan 2013.
University management	degree mills sham degrees nepotism, cronyism, or favoritism in hiring and promoting faculty and staff	Vincent-Lancrin 2013, Osipian 2013, Rumyantseva and Denisova-Schmidt 2015.

The remainder of this paper is organized as follows. Section 2 introduces the data base and provides descriptive statistics. Section 3 discusses the empirical method. Section 4 presents the results. Section 5 concludes.

² *Blat* in the USSR referred to the use of informal networks ‘to obtain goods and services in short supply and to find a way around formal procedures’ (Ledeneva 1998, p. 1).

2. Data

Our data set comes from a survey based on questionnaires (n=463) that was conducted at selected universities in Khabarovsk – a major Russian city located in the Far East with a population of more than 600,000 – between 2012 and 2013. In the 2012-13 academic year, about 73,000 students were enrolled at universities in the Khabarovsk region (*Obrazovanie v Rossiiskoi Federatsii 2014, 2015*). More than 50% of them studied at the four universities³ covered by our study. These universities are among the better-than-average universities in Russia. The sample includes only subjects who were studying on site at state universities in three main subject areas: economics, the humanities and engineering, representing the majority of all students. The results of our pilot study showed that many students often condemn large-scale corruption involving high-profile politicians and businesspeople and overlook petty corruption – especially in cases with their personal involvement. Hence we decided to include two qualitative tools – expert interviews (n=23) and focus groups (n=7) – in order to understand the reasons for justifying corruption from the students' point of view (Denisova-Schmidt, 2013).

We were given access to university administrative records and based on the latter, we were able to pick a random sample. This level of access is not typical in Russia, as it usually requires the approval of the rector, which is hardly possible to obtain for any studies covering corruption at universities: no one wants to air their own dirty laundry in public. The respondents were selected according to the multi-stage quota sampling. In the first stage, we defined the quota in accordance with the number of students enrolled at universities. In the second stage, we defined the quota in proportion to the number of departments. In the last stage, we invited every fifth student, alphabetically, from each group. If the student was absent, we invited the following student on the list.

Of the 463 survey participants, 314 were first year students and 149 were in their fifth year. The first year students were typically 17 years of age, while the fifth year students were around 21. Table 2 presents the means of a range of characteristics (or covariates) for both groups of students. Previous research has pointed to other factors that might influence corrupt behavior, such as *gender* (women are usually less likely to be perceived as corrupt) (see, for example, Swamy, Knack, Lee, Azfar, 2001, Shaw, Katsaiti and Pecoraro, 2014 and Jetter and Walker, 2015) and *experience with corruption* (people with previous personal experience with corruption and/or those who believe that everyone around them is corrupt are more prone to corruption) (see, for example, John, Loewenstein, and Rick, 2014). Hence we included 'gender' as one of the variables, as well as several questions about the respondents' previous experience with monetary and non-monetary corruption in everyday life ('friends/relatives use bribery for solving problems' and 'friends/relatives use connections for solving problems'). Moreover, one of our questions pertained to 'gifts during school time'. Gifts might be given without overt intentions as a part of the Russian academic culture (Denisova-Schmidt, 2015, 2016), but sometimes these gifts might carry certain expectations (i.e., a 'forced' gift that looks like a 'free' one) (Ledeneva, 2014). We did not distinguish this ambivalence in our study, however. We also asked our respondents about their reasons for pursuing a higher education, their living situation before university admission and their

³ In the 2012-13 academic year, about 73,000 students were enrolled at universities in the Khabarovsk region (*Obrazovanie v Rossiiskoi Federatsii 2014, 2015*). More than 50% of them studied at the four universities covered by our study. We were given access to university administrative records and from those lists, we were able to pick a random sample. This level of access is not typical in Russia, as it usually requires the approval of the rector, which is hardly possible to obtain for any studies covering corruption at universities: no one wants to air their own dirty laundry in public. The respondents were selected according to the multi-stage quota sampling. In the first stage, we defined the quota in accordance with the number of students enrolled at universities. In the second stage, we defined the quota in proportion to the number of departments. In the last stage, we invited every fifth student, alphabetically, from each group. If the student was absent, we invited the following student on the list.

field of their studies. These characteristics might also help us to understand possible correlations with corrupt behavior (Leontyeva, 2010, Denisova-Schmidt and Leontyeva, 2015). While both genders were represented almost equally among the first year students, the majority of the final-year students were female. Important differences between sampled fifth and first year students also occur in the choice of the university and subject, the reason for obtaining a higher education, and previous exposure to informal practices and corruption during secondary schooling or through friends and relatives.

Table 2: Covariate means across groups in the survey (prior to matching)

variable name	fifth year	first year
gender: male	0.262	0.487
student of humanities	0.262	0.292
student of economics	0.317	0.230
reason for studying: good education	0.552	0.644
reason for studying: diploma	0.503	0.247
frequent gift to teacher in school: flowers	0.386	0.272
frequent gift to teacher in school: tableware	0.159	0.048
frequent gift to teacher in school: alcohol	0.055	0.019
friends/relatives use bribing for solving problems	0.628	0.779
friends/relatives use connections for solving problems	0.290	0.436
dummy for university 1	0.497	0.487
dummy for university 2	0.152	0.167
dummy for university 3	0.124	0.240
hometown: 100,000-500,000 inhabitants	0.117	0.077
hometown: less than 100,000 inhabitants	0.524	0.455

It should be mentioned that it was challenging to conduct this particular survey. Some of the universities in the city are in the process of merging with other schools, while other universities were no longer in operation.⁴ Often, university administrations do not welcome any such empirical surveys, as they are afraid of ‘covert inspections’.⁵ Access to students was granted through a few professors who agreed to participate by allowing entire groups of their students to fill out questionnaires.

3. Empirical Method

In our analysis of the data, we apply a covariate matching technique – namely, nearest neighbor Mahalanobis distance matching as implemented in the ‘psmatch2’ package by Leuven and Sianesi (2003) for the statistical software ‘Stata’. This method allows us to compare first year and fifth year students in terms of corrupt behavior, while making the two groups comparable with regard to observed characteristics (or covariates) already presented in Table 2, such as their gender, hometown, subject, university, reasons for getting a diploma, frequency of presents given during secondary schooling and previous experience using connections and bribes to solve problems in

⁴ The Russian government plans to reduce the number of universities by 2020, eliminating up to 80% of regional branches and up to 40% of universities (Trushin, 2015).

⁵ Mergers of universities also mean that some of the faculty will be dismissed and/or some of the programs will be closed. How can Russian organizations issue lay-offs if the majority of the faculty has permanent positions and are well protected by the Russian Labor Law? How can Russian universities close any programs, if they are running successfully? One of the options is to look for formal mistakes made by the faculty and/or program administration in order to find an official reason for dismissing and/or closing. To find these mistakes ‘covert’ inspections are organized – a practice that can be traced back to Tsarist Russia. The Tsar let their officials visit Russian cities to see if the reality indeed compares to the written reports he/she received on a regularly basis. These inspections were either open or covert. The Russian-Ukrainian novelist Nikolai Gogol (1809-1852) described this practice in his book ‘The Government Inspector’ (1836).

daily life. We believe that these characteristics might influence corrupt activities. Furthermore, the covariates are also statistically related to being a fifth vs. a first year student as shown in the probit regression results reported in Table A1 in the appendix, implying that both groups systematically differ in these characteristics. Therefore, the aforementioned covariates should be controlled for when investigating the differences in corrupt behavior that are merely related to being a first year or a fifth year student (net of the covariates).

More precisely, our nearest neighbor matching approach matches to each fifth year student the first year student that is most similar in terms of the covariates with replacement (implying that the same first year student can, in principle, be used as a comparison for several fifth year students whenever most similar). The idea is to generate a first year sample that is as comparable as possible to the fifth year students in these characteristics in order to investigate any remaining average differences in the corruption behavior of fifth and first year students. In the treatment of impact evaluation literature (see for instance Imbens, 2004), our estimated parameter corresponds to the ‘average treatment effect on the treated’. Note that ‘similarity in terms of the covariates’ is defined in terms of the Mahalanobis distance.⁶ The standard errors of the estimated average differences are computed based on the Abadie and Imbens (2006) variance estimator for matching.

Matching is successful if it equilibrates (or balances) the covariate distributions across fifth and matched first year students, which may be investigated by so-called after-matching tests. To this end, Table 3 reports the covariate means across student groups, along with standardized biases (see Rosenbaum and Rubin, 2005) and two sample t-tests. We see that most covariates are well balanced across fifth and matched first year students, as their means are rather similar, the t-statistics on mean differences are not significant, and the standardized biases are not ‘too large’ (i.e., below an absolute value of 20; see Rosenbaum and Rubin, 2005). An exception is the dummy variable ‘reason for studying: to obtain a good education’, which has a standardized bias of -22.5 and a p-value just slightly above the 5% level of significance. All in all, matching nevertheless succeeded in making the covariate distributions between the two student groups similar.

Table 3: Covariate means across groups along with standardized biases and t-tests

variable name	fifth year	matched first year	std.b	t-stat	p-val
gender: male	0.262	0.262	0.0	0.000	1.000
student of humanities	0.262	0.269	-1.5	-0.130	0.895
student of economics	0.317	0.283	7.7	0.640	0.523
reason for studying: good education	0.552	0.662	-22.5	-1.930	0.055
reason for studying: diploma	0.503	0.448	11.8	0.940	0.349
frequent gift to teacher in school: flowers	0.386	0.352	7.4	0.610	0.544
frequent gift to teacher in school: tableware	0.159	0.131	9.2	0.670	0.506
frequent gift to teacher in school: alcohol	0.055	0.055	0.0	0.000	1.000
friends/relatives use bribing for solving problems	0.628	0.690	-13.7	-1.110	0.267
friends/relatives use connections for solving problems	0.290	0.310	-4.3	-0.380	0.702
dummy for university 1	0.497	0.524	-5.5	-0.470	0.640
dummy for university 2	0.152	0.138	3.8	0.330	0.740
dummy for university 3	0.124	0.145	-5.4	-0.510	0.607
hometown: 100,000-500,000 inhabitants	0.117	0.110	2.3	0.180	0.854
hometown: less than 100,000 inhabitants	0.524	0.476	9.7	0.820	0.413

⁶ The Mahalanobis distance is a weighted average of the discrepancies of each of the covariates between any fifth year student and any potentially matched first year student, where the weight is proportional to the inverse of the covariance matrix of the covariates. This weighting approach at the same time normalizes the distances between covariates (giving less weight to distances with a high variance) and accounts for the covariance between distances (giving less weight to covariate distances that highly correlate with another distance). We refer to Zhao (2004) for a detailed discussion of distance metrics in matching estimators.

4. Results

The subsequent discussion and tables present the results of interest, namely the average differences in various measures of attitudes towards corrupt behavior across fifth year and matched first year students, along with standard errors (see ‘S.E.’) and t-statistics (see ‘T-stat’). Specifically, the tables report both the raw differences in the corruption measures before matching (see ‘Unmatched’) and after making first year students comparable to fifth year students in terms of the covariates by matching (see ‘Matched’).

Table 4: Lack of academic integrity

Areas	Examples
Taking Exams	copying off during exams or tests using crib sheets and other unauthorized materials during exams
Writing Papers	downloading term papers (or other papers) from the internet writing a paper by copying and pasting text from the internet purchasing term papers (or other papers) from special agencies or from other students
Communicating with Professors	asking a professor for preferential treatment (easing requirements, exemption from an exam) giving a professor fraudulent or misleading excuses for poor academic performance (absence from lectures, failure to meet deadlines for written papers, failure to appear for an exam)

Source: Denisova-Schmidt 2013, 2015, 2016.

One of the questions in the survey was concerned with different cheating techniques of students when taking exams, writing papers and communicating with professors (see Table 4). Concisely, we asked students to which extent various informal practices that violate academic integrity are acceptable for them.⁷ The results presented in Table 5 suggest that the usage of several cheating techniques is significantly more common among fifth-year students than among first-years, even when accounting for differences in covariates: ‘using crib sheets and other unauthorized materials during exams’, ‘copying off during exams or tests’, ‘downloading term papers (or other papers) from the internet’ and ‘giving a professor fraudulent or misleading excuses for poor academic performance’ are all significant at the 10% level or even a lower level of significance.

Table 5: Students’ attitudes towards cheating techniques – Question: What practices are acceptable for you?

Area	Actions		fifth year	first year	Difference	S.E.	T-stat
Taking Exams	Using crib sheets and other unauthorized materials during exams	Unmatched	2.46	2.24	0.21	0.06	3.25***
		Matched	2.46	2.19	0.26	0.10	2.73***
	Copying off during exams or tests	Unmatched	2.33	1.96	0.37	0.07	5.47***
		Matched	2.33	1.87	0.46	0.11	4.26***
Writing Papers	downloading term papers (or other papers) from the internet	Unmatched	2.08	1.82	0.26	0.07	3.56***
		Matched	2.08	1.81	0.28	0.12	2.32**
	writing a paper by copying and pasting text	Unmatched	2.64	2.68	-0.04	0.05	-0.74
		Matched	2.64	2.73	-0.09	0.08	-1.09

⁷ Here and in other questions, the students reported on their perceptions and attitudes, not about their actual behavior.

from the internet

	purchasing term papers (or other papers) from special agencies or from other students	Unmatched	1.62	1.53	0.09	0.07	1.18
		Matched	1.62	1.44	0.18	0.11	1.62
Communicating with Professors	giving a professor fraudulent or misleading excuses for poor academic performance	Unmatched	1.65	1.49	0.16	0.07	2.31**
		Matched	1.65	1.45	0.20	0.11	1.87*
	asking a professor for preferential treatment	Unmatched	1.54	1.58	-0.03	0.07	-0.43
		Matched	1.54	1.53	0.01	0.11	0.13

Note: *, **, *** means that the mean differences between first and fifth year students are significant at the 10, 5 and 1 % level, respectively. ‘Unmatched’ refers to the raw differences prior to matching, ‘matched’ to the difference after matching on covariates. Scale of the outcome variables: 1=never, 2=rarely, 3=seldom, 4=often, 5=systematically.

Our results suggest that not only in statistical, but also in economic terms, the differences between fifth and first year students are important after making them comparable in the covariates: the means of ‘using crib sheets and other unauthorized materials during exams’ are 12% larger in the fifth than in the first year, while ‘copying off during exams or tests’ increases by 25%, ‘downloading term papers (or other papers) from the internet’ by 15%, ‘purchasing term papers (or other papers) from special agencies or from other students’ by 12.5% and ‘giving a professor fraudulent or misleading excuses for poor academic performance’ by 14%. In contrast, the differences in ‘asking a professor for preferential treatment’ and ‘writing a paper by copying and pasting text from the internet’ are both statistically and economically insignificant.

The qualitative results coming from the expert interviews and focus groups suggest that students develop ambivalent attitudes toward the lack of academic integrity. On the one hand, they condemn these practices; on the other hand, they can justify them. The reasons for legitimation are 1) time saving, 2) the lack of awareness; 3) protest; and 4) the student’s general attitude towards higher education. Students often deem different cheating techniques in academia to be time saving, especially with regard to ‘unnecessary’ classes and the need to have a job during their studies: ‘There are general subjects which are not related to the future activity of a particular specialist... To pass it, one can use a cheat sheet, in order to simply pass and forget it’. Students are often unaware that they are doing anything wrong, especially in their preparation of term papers and theses. ‘Copying and pasting’ from the internet seems to be a common method of academic writing. In some cases, students might have doubts about the content of their education in general, and about the didactical competencies of some of their professors in particular, with the result that the students do not want to spend their time and energy doing things that will not be required on the job market. Finally the tendency in Russian society to believe that only higher education can secure one’s professional future leads to the fact that many young people attending the university are not really prepared to study at such a high level. Moreover, some students tend to prepare crib sheets, but do not necessary use them or want to use them during exams; rather it is ‘a kind of preparation for an exam’. Some students download papers in order to have examples of academic writing and an impetus for their own ideas: ‘it is a good example from both the substantive and formal points of view’, that is, the students may look at the structure of such papers, the cited authors, as well as the rules of formatting (Denisova-Schmidt, 2013).

Table 6: Bribes at Universities - Question: Have you ever heard that they take bribes at the universities?

answer		fifth year	first year	Difference	S.E.	T-stat
yes	Unmatched	0.67	0.43	0.23	0.05	4.69***
	Matched	0.67	0.44	0.23	0.07	3.10***

Note: *, **, *** means that the mean differences between first and fifth year students are significant at the 10, 5 and 1 % level, respectively. ‘Unmatched’ refers to the raw differences prior to matching, ‘matched’ to the difference after matching on covariates. Scale of the outcome variables: 1=yes, 0=no.

A further question concerns the awareness about monetary corruption in universities. As shown in Table 6, fifth year students more frequently state to have heard about bribes at universities than first year students (significant at the 1% level), even after making the student groups comparable in the covariates: the difference in awareness across group amounts to 52% (!). Moreover, fifth year students consider corruption more frequently as a ‘necessity’ (significant at the 10% level), a ‘national peculiarity’ (10% level) and ‘an everyday occurrence’ (5% level), see Table 7. They therefore appear to have a more pragmatic attitude towards this phenomenon than first year students. This pragmatic attitude might also be influenced by the ageing effect.

Table 7: Definition of corruption – Question: What is corruption to you?

	Definition		fifth year	first year	Difference	S.E.	T-stat
Negative approach	Evil	Unmatched	0.39	0.38	0.01	0.05	0.23
		Matched	0.39	0.37	0.02	0.07	0.28
	Crime	Unmatched	0.59	0.58	0.01	0.05	0.19
		Matched	0.59	0.64	-0.06	0.07	-0.74
Pragmatic approach	Necessity	Unmatched	0.13	0.06	0.07	0.03	2.39**
		Matched	0.13	0.05	0.08	0.04	1.95*
	An everyday occurrence	Unmatched	0.15	0.07	0.08	0.03	2.76***
		Matched	0.15	0.05	0.10	0.05	2.29**
Positive approach	A way of getting income	Unmatched	0.30	0.25	0.05	0.04	1.05
		Matched	0.30	0.26	0.03	0.07	0.51
	Compensation for low wages	Unmatched	0.30	0.23	0.07	0.04	1.66*
		Matched	0.30	0.29	0.01	0.07	0.21
Neutral approach	Temporary situation	Unmatched	0.05	0.04	0.00	0.02	0.32
		Matched	0.05	0.04	0.01	0.03	0.20
	Part of life	Unmatched	0.20	0.13	0.07	0.04	2.00
		Matched	0.20	0.21	-0.01	0.06	-0.11
‘Russian’ approach	Tradition	Unmatched	0.07	0.08	-0.01	0.03	-0.30
		Matched	0.07	0.04	0.03	0.03	0.82
	National peculiarity	Unmatched	0.26	0.19	0.07	0.04	1.78*
		Matched	0.26	0.15	0.11	0.06	1.79*

Note: *, **, *** means that the mean differences between first and fifth year students are significant at the 10, 5 and 1 % level, respectively. ‘Unmatched’ refers to the raw differences prior to matching, ‘matched’ to the difference after matching on covariates. Scale of the outcome variables: 1=never, 2=rarely, 3=seldom, 4=often, 5=systematically.

Table 8 reports differences in the subjective acceptability of formal, informal and illegal practices for job searches were codified. The results suggest that fifth year students to a significantly higher extent prefer to use informal tools such as protection from relatives and friends (significant at the 10% level) as well as *blat* (Ledeneva 1998) and connections (significant at the 5% level) in their job searches – practices that are considered corrupt by Transparency International, in the form of

nepotism and favoritism.⁸ In contrast, the willingness to do a service in return (another informal tool), but also to contact a recruiting agency is significantly lower (significant at the 5% level) than among (matched) first-years. No significant effects were found for the use of other formal instruments such as ‘reading job ads in the mass media’ and ‘registering with a job center’, nor for the use of such illegal job search techniques as ‘awakening the monetary interest of an employer’, ‘bringing an expensive gift’ or ‘providing false data about yourself’.

Table 8: The job search: acceptable and less acceptable tools – Question: What job search tools are acceptable according to your opinion?

actions			fifth year	first year	Difference	S.E.	T-stat
Formal	Contacting a recruiting agency	Unmatched	2.29	2.37	-0.07	0.07	-1.03
		Matched	2.29	2.49	-0.20	0.10	-2.04**
	Reading job ads in the mass media	Unmatched	2.63	2.62	0.01	0.06	0.22
		Matched	2.63	2.69	-0.06	0.09	-0.73
	Registering with a job center	Unmatched	2.36	2.42	-0.06	0.07	-0.94
		Matched	2.36	2.48	-0.12	0.10	-1.26
Informal	Patronage of relatives and friends	Unmatched	2.31	2.11	0.20	0.07	3.07***
		Matched	2.31	2.14	0.18	0.10	1.85*
	Looking for connections, arrange on <i>blat</i>	Unmatched	2.21	2.01	0.20	0.07	2.74***
		Matched	2.21	1.94	0.26	0.10	2.56**
	Doing a service in return	Unmatched	1.67	1.83	-0.16	0.07	-2.27**
		Matched	1.67	1.91	-0.24	0.10	-2.55**
Illegal	Awakening monetary interest of an employer	Unmatched	1.59	1.58	0.01	0.08	0.12
		Matched	1.59	1.51	0.08	0.11	0.73
	Bringing an expensive gift	Unmatched	1.19	1.23	-0.04	0.05	-0.74
		Matched	1.19	1.16	0.03	0.07	0.43
	Providing false data about yourself	Unmatched	1.34	1.20	0.14	0.06	2.44**
		Matched	1.34	1.23	0.11	0.08	1.31

Note: *, **, *** means that the mean differences between first and fifth year students are significant at the 10, 5 and 1 % level, respectively. ‘Unmatched’ refers to the raw differences prior to matching, ‘matched’ to the difference after matching on covariates. Scale of the outcome variables: 1=never, 2=rarely, 3=seldom, 4=often, 5=systematically.

A final question concerns the students’ view on whether it is possible to overcome corruption in Russia, see Table 9. Interestingly, both first and fifth-year students are rather positive about that, as indicated by the low average score of roughly 1.3 in either group (note that 1=yes and 2=no). Mean differences are small and insignificant, both before and after matching.

Table 9: Overcome corruption in Russia – Question: Is it possible to overcome corruption in Russia?

	fifth year	first year	Difference	S.E.	T-stat
Unmatched	1.28	1.25	0.02	0.04	0.55
Matched	1.28	1.25	0.03	0.06	0.44

⁸ This might also be explained through the fact that fifth-year students already have experience in searching for a job and holding a job.

Note: *, **, *** means that the mean differences between first and fifth year students are significant at the 10, 5 and 1 % level, respectively. ‘Unmatched’ refers to the raw differences prior to matching, ‘matched’ to the difference after matching on covariates. Scale of the outcome variables: 1=yes, 2=no.

Summing up, our results imply that advanced students are much more inclined to engage in informal practices and corrupt behavior than first year students. This suggests a process of learning about and/or adaptation to corrupt practices in the course of university education. Our analysis therefore points to the possibility that the Russian higher education system has, from a social perspective, an undesirable side effect on its graduates: It may make them more open to corruption or compliant with the corrupt structures in place, thus potentially hampering economic and social development in the country as a whole (see, for example, Heyneman, 2004).

However, it is important to bear the following limitations and caveats in mind when interpreting our results. First, there is the issue of potential dropout (or attrition) bias that might occur during university education and could jeopardize our matching-based comparison of fifth and first year students. It is worth noting that the dropout rate of students at Russian universities is relatively low. In a study conducted at one of the elite universities in Moscow in 2011, Gruzdev, Gorbunova and Frumin (2013) noted a dropout rate of 16% at the bachelor/specialty⁹ level (n=194). Even after dropping out, only 4% of the students actually left the higher education system: 40% of these dropouts continued their studies at the same university, 34% transferred to other universities, 12% planned to continue their studies and 10% had already graduated.¹⁰ A transfer from/to a different university could imply that the pool of students considered in our study changed to a small extent between the first and fifth year, but should arguably not be a major issue after matching on socio-economic characteristics. Second, our analysis does not disentangle changes in corrupt behavior which are due to university education from age effects that might occur even without higher education. While we cannot address this issue in our data (as we cannot make first and fifth-year students comparable in age for obvious reasons), our strong suspicion is that an important share of the differences is driven by the university system, given that the age difference between the groups is only a few years. At the very least, our analysis suggests that the higher education system does not prevent adolescents from becoming more inclined towards corruption over time.

Third, we asked about the personal perception and attitudes towards corruption and the lack of academic integrity, rather than about actual experiences students might have had during their university studies. We therefore followed Heyneman (2013) who advocates ‘ignoring’ the discussions about perception vs. actual evidence in analyzing corruption in the educational sector: ‘when an institution is perceived to be corrupt the damage is already done, regardless of whether guilt is manifest’. It therefore needs to be borne in mind that all our results are to be interpreted as perceived corruption rather than realized corruption. Finally, we did not question the professorate: what do they usually do if their students cheat? The latest research shows that the faculty usually does not notice and/or pretends not to notice these activities (Denisova-Schmidt and Leontyeva 2015, Rummyantseva and Denisova-Schmidt, 2015).

⁹ Specialty (*specialitet*) – the previous educational system, which culminated with a diploma.

¹⁰ This might be explained through some peculiarities of the Russian higher education system: If a student does not pass an exam within a certain period of time (*sessiia*), he/she should be expelled. A student has the chance to repeat the exam, however, and if the second test is successful, his/her status as a student will be reinstated, usually in the same academic year. Moreover, students who have not completed their higher education have almost no chances on the job market and their professional future might be unclear. Young men often consider university studies in order to be exempted from military service. If they are expelled, they will be called up for their service immediately.

5. Conclusion

Using a student sample from selected public universities in Khabarovsk, Russia, we compared first and fifth-year students regarding their attitudes towards corruption in general and university corruption in particular. The results suggest that fifth-years are more open to a range of informal and corrupt practices than first-years even after making both groups comparable with respect to a range of socio-economic characteristics (such as gender, subject, hometown, motivation for going to university and previous experience of corruptive behavior) by matching (on the Mahalanobis distance). Our study therefore suggests that the students' attitudes become more favorable towards corruption during their university studies, which points to the possibility that the Russian higher education system 'favors' compliance with corruption and informal practices. In addition to university studies, however, several other factors may be in play, such as an ageing effect (i.e. people changing with age), a generational effect (i.e. people born earlier having different attitudes because of different experience during formative years), or a nearing entry into the labor market. Nevertheless, adolescents that complete their socialization by learning various cheating techniques and by becoming more confident in corrupt practices may transfer this attitude to their professional lives, thus hampering economic and social development (s. discussions in Grimes, 2004). From a policy perspective, it therefore seems advisable to tackle university corruption as well as its ambivalence even more determinedly. More research is required in order to investigate which anti-corruption strategies are both effective and feasible. Moreover, further research needs to be conducted both to enable meaningful comparisons between first and fifth year students and to disentangle the influence of higher education from other influences. Ideally, one would set up an experiment with two groups of universities. In the first group, interventions would take place on a regular basis (i.e., corruption at these universities is explicitly prohibited), while the second group would be the "control group" that corresponds to the Russian average. When comparing the behavior of the students in one group with that of the other, one would thus be comparing students of the *same age* (i.e., first years in group 1 vs. first years in group 2, etc.). This would allow isolating the effect of the intervention from that of the students' relative ages.

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Appendix

Table A1: Selection into being a fifth vs. a first year student based on probit regression

variable name	coef.	std.err.	p-value
gender: male	-0.633	0.145	0.000
student of humanities	-0.283	0.183	0.122
student of economics	-0.295	0.220	0.179
reason for studying: good education	-0.253	0.138	0.067
reason for studying: diploma	0.651	0.141	0.000
frequent gift to teacher in school: flowers	0.288	0.146	0.048
frequent gift to teacher in school: tableware	0.529	0.245	0.031
frequent gift to teacher in school: alcohol	0.424	0.369	0.251
ever seen friends/relatives use bribing for solving problems	-0.213	0.156	0.173
ever seen friends/relatives use connections for solving problems	-0.222	0.150	0.138
dummy for university 1	-0.319	0.251	0.202
dummy for university 2	-0.447	0.318	0.160
dummy for university 3	-0.945	0.321	0.003
hometown: 100,000-500,000 inhabitants	0.273	0.240	0.255
hometown: less than 100,000 inhabitants	0.285	0.145	0.049
constant	0.148	0.321	0.645
pseudo R squared	0.168		

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Abstract

Based on empirical data from selected public universities in Khabarovsk, Russia, this paper compares first and fifth year students regarding their attitudes towards corruption in general and university corruption in particular. Even after making both groups of students comparable with respect to a range of socio-economic characteristics by a matching approach, the results suggest that fifth year students are more open to a range of informal and corrupt practices than first years. Our analysis therefore points to the possibility that the Russian higher education system might 'favor' compliance with corruption and informal practices, with potentially detrimental consequences for the Russian society as a whole.

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