Commitment to the goal of completing studies in higher education: Dropout risk of the students from social science specialization from three Romanian public universities*

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This paper is aimed at finding the degree of commitment to the goal of completing studies in higher education of students in the institution they are registered in. The study relies on a questionnaire-based survey, which was applied to students enrolled in the PractiPASS project. The questionnaire was applied to students from the University of Oradea, University of Bucharest, and “Aurel Vlaicu” University from Arad. The analysis was carried out starting from theoretical models from papers, which had studied the same subject. The most important variables that were used for analysis are student’s integration (social and academic), financial resources, socioeconomic background, organizational climate, specialization, etc. Using these variables, we tried to find differences between the levels of engagement of students from the three universities, and to find out some of the causes of dropping out.

Keywords: commitment to the goal; school dropout; academic integration

INTRODUCTION

The project *Practical learning programme for students “Child protection – From theory to practice”* (PractiPASS) was an endeavor of improving service-learning that included as target group students from three public universities from Romania: The University of Oradea (as lead partner), University of Bucharest, and University “Aurel Vlaicu” from Arad. In each of the three universities involved in the project, the participants were students at bachelor and master level in social sciences: mainly social work plus smaller contingents of students in psychology, sociology, pedagogy, and related master program.

The project involved, among other things, monitoring students’ engagement through surveys with the target group in which various items measuring commitment to the educational program in which the subject was enrolled as well as to the activities and the targets of the project were assessed. According to the results of the first survey (January–March 2012), conducted with the students participating in the project ($N = 498$), the subjective likelihood of school dropout is significantly higher in case of students from the University of Oradea. Motivated by the practical interest of ensuring a high level of engagement for students and a low student enrollment fluctuation and the scientific one, of explaining the significant variations regarding the commitment to educational objectives in similar conditions, we considered useful to investigate the correlations of the subjectively self-assessed risk of dropping out in the case of the students from the Faculty of Social Sciences of the University of Oradea, compared with the situation at

the other two universities participating in the PractiPASS project. If we take as reference the University of Arad, Oradea University students have a two times higher perceived risk of dropping out compared with their colleagues from Arad (Table 1). The motivation of this paper becomes immediately clear as dropout is one of the most challenging issues faced by Romanian universities (Bechir, 2017) and service-learning is expected to contribute to increase persistence (Kuh, Kinzie, Buckley, Bridges, & Hayek, 2006).

THEORETICAL MODEL

Clearly, the question that generated the analyses of these pages “*Have you thought about abandoning the current study program without having acquired a degree?*” does not directly measure the risk of dropout or the intention of abandoning, even though it is related to these concepts. Cross-sectional studies, which cannot actually study dropout as dependent variable, analyze indicators of the so-called

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Table 1. Have you thought to abandon the current course of study program having acquired a degree? (%)

	No	Yes
University of Arad	85.8	14.2
University of Bucharest	90.2	9.8
University of Oradea	74.8	25.2

dropout syndrome, which is indicated by discussions about abandonment and intention to drop out (Bean & Metzner, 1985; Bennett, 2003). On the other hand, the question used in our research operationalizes the concept of commitment to successfully fulfill a study program (goal commitment), which itself is considered as an important predictor of persistence or, conversely, of dropout from education system. In the following, we will use for comfort, the short-term commitment *to the goal*, with the restricted sense of commitment to the goal of completing the current course of study.

The importance of initial commitments to long-term persistence in college and success in finalizing the study cycle had been recognized in all theories about dropout from higher education. This explains the fact that *commitment to the goal* has been investigated in many researches dedicated to the issue of dropping out. The results of these studies have emphasized the importance of commitment to the objective of a successful academic journey (Farabaugh-Dorkins, 1991; Munro, 1981).

In order to explain variation in commitment to the goal of degree completion, narrowly understood as described above, we have formulated following the relevant literature three alternative explanations that refer to three categories of predictors of school engagement based on the well-known theories regarding student persistence in higher education: Tinto's integralist model (1993), the rational choice model (Becker, 1975; Chen, 2008; Manski & Wise, 1983), and Morgan's commitments model (Morgan, 2005). In brief, we argue that goal commitment is correlated with the student's academic and social integration, with background socioeconomic features that describe the student as traditional or non-traditional and with indicators of resources important for completion of studies.

Students' academic and social integration

Tinto's model, which is well-known in the area of studies about persistence in higher education, is called "integralist" because it highlights the importance of student integration in academic and social processes of the institution in which they are enrolled, in their decisions to continue or discontinue studies, where the commitment to the goal is a mediator of the relationship between integration and dropout. Tinto's model highlights (pp. 84–137) that, in order to develop strong commitment to objective of completion studies, students must be integrated both socially – having positive relationships with peers or teachers and researchers, and academically, which is indicated by positive adaptation to the requirements of the educational institution (Pusztai, 2011). The dimensions of academic and social integration used in the current research are the evaluations of *school climate and student satisfaction*. Some of the important

relationships presumed in the integralist model of student persistence are those of social and academic integration on one hand, and students commitment to the goal on the other hand. To this model that largely confirm in their studies, Pascarella and Terenzini (1980) add the importance of the relationships that the students develop with faculty.

Traditional students versus non-traditional students

The fact that traditional and non-traditional students differ in their commitment to goal completion is theoretically a plausible hypothesis, because we know from previous research that traditional students (young people, who usually started college immediately after high school) have stronger attachments to the goal of successful completion of studies, primarily but not exclusively, because they have better resources and less disincentives and, therefore, also lower dropout rates (Bean, 1985; Farabaugh-Dorkins, 1991; Lassibille & Gómez, 2007; Lohfink & Paulsen, 2005; Pascarella, Pierson, Wolniak, & Terenzini, 2004; Wardley, Bélanger, & Leonard, 2013). In consonance with the literature, the main indicator of belonging to one category or another of students is represented by the interruption of studies before the current education cycle for a minimum period of 1 year. However, the issue of resources deserves a special focus.

The impact of resources

Since attending university comes with costs, both direct and indirect impacts of economic factors on student persistence have often been investigated in the works in this area. Chen (2008) explored, for example, the impact of financial aid on dropout and concluded that scholarships and grants mediate in a significant degree the effect of academic performance and commitment on the decision to dropout. In this paper, we will also investigate whether grants, funding mode (tuition fee paying or tuition fee exempt) availability, or existence of his/her own money (wages) influence commitment to the objective in the way predicted by theory (Breier, 2010), namely, that as the pressure of the material resources is greater the commitment to the goal decreases.

On the other hand, available time is another resource necessary to overcome successfully most academic tasks. It is plausible to expect that people who have concurrent tasks to show low commitment to their studies. Therefore, we investigate the most important way in which such commitments – as marriage and having a job – affects commitment to the goal for students of the three universities involved in our research (Bean, 1985; Pearson, 2004).

Each university has participated with students of Social Work specialty, to which were added, in the target group, students from other specialties (Psychology, Sociology, Special Education, and Master's programs). It is possible that the intention of dropout to be more common in the case of students enrolled in some specialties, and to that the disadvantage of the University of Oradea students because of the specific composition of student population of certain specializations. Introducing the indicators of university, cycle of studies (BA or MA and study program) is therefore necessary in subsequent analyses.

VARIABLES

Dependent variable

Commitment to the goal is the result of recoding into two categories the answers to the question which asked students how often they thought about abandoning current studies without obtaining a degree. About 15.7% of the students have thought at least once to abandon their courses.

Independent variables

All the structural variables have been dichotomized to facilitate analysis, that is, to reduce the degrees of freedom in the logistic regressions. Distributions are presented in Table 2.

Socioeconomic background

University and study cycle: Arad, Bucharest, and Oradea. In subsequent logistic regression models, we dichotomized the affiliation to university by building two categories corresponding to universities in Bucharest and Oradea (the one from Arad remains for reference). In absolute numbers, distribution per universities is as follows: 176 at the University of Arad, 183 at the University of Bucharest, and 139 at the University of Oradea. Regarding the study cycle, all students are in first or second years of Bachelor cycle and first year of MA cycle. The Master students are only from the University of Oradea.

Organizational climate

Organizational climate indicators were also dichotomized noting with 1 for the students who said good and very good relationships with teachers and those who were satisfied and very satisfied with the university (see Table 3).

To test the explanations suggested above, we modeled in blocks, using logistic regression and the dependent variable. In Block 1, we introduced the corresponding variables of

the university and the year/cycle of study; in Block 2, we introduced the socioeconomic variables, and in Block 3, we introduced the school climate variables.

RESULTS OF THE MULTIVARIATE MODELS

Block 1: University and study cycle

The model from the Block 1 shows that study cycle does not matter for the declared intention of dropout but only the university. Having the University of Arad as referent, being student at University of Oradea doubles the risk of intention to abandon. The results show that at least the cycle of study does not determine the risk of intention to dropout (Table 4).

The test of effect of specializations

It is true that the intention of dropout is more common in some specializations than others. Table 5 shows that it is much higher for MA students than in the case of BA students, and higher for students in sociology, for instance, than for students in social work. However, comparing by specializations (this is possible for Social Work, Sociology, and Psychology due to number of cases) between universities, we find that, consistently, the percentage of those who thought about dropping out at the University of Oradea is higher than in other universities.

On the other hand, we must admit that some of the percentage of students who thought to dropout from the University of Oradea are due to programs toward which students have a low attachment (Special Psycho-pedagogy, MA programs) that are found only at the University of Oradea.

Block 2: Socioeconomic dimension

None of the independent variables indicating structural features has significant effect on the dependent variable. Instead, the university effect remains significant on edge (Table 6).

Block 3: School climate

Good relationships with teachers have been reduced by one third the risk of the intention of dropout. Other effects remain unchanged, while that of the University becomes even stronger. This result is important as it shows that the intention of dropout is more common at the University of Oradea because of the university climate (if it would be controlled, via the introduction of the measure of relations with teachers, the university effect should disappear).

These analyses have confirmed a single hypothesis, namely that the intention of dropout depends on the climate, specifically the perceived relationships with teachers, but did not allow us to understand why the risk is higher at the University of Oradea than the other two universities. In each of the three models, the effect of the University of Oradea is significant (Table 7).

Table 2. Distributions of sociodemographic variables

	% for 1
Gender (male = 1)	7.8
Marital status (married or divorced = 1)	6.8
Employment status (employed = 1)	19.5
With scholarship (scholarship = 1)	20.1
Funding of education (tuition-free student = 1)	56.2
Father's level of education (father with tertiary education level = 1)	20.9

Table 3. Distribution of organizational climate items

	% for 1
Relationships with teachers (good relationship with teachers = 1)	92.8
Satisfaction with the learning conditions (satisfied and very satisfied = 1)	88.0

Table 4. Logistic regression model (Block 1)

	<i>B</i>	<i>SE</i>	Wald	<i>df</i>	Sig.	Exp (<i>B</i>)
Cycle			3.887	2	0.143	
Cycle = 2nd bachelor year	0.464	0.312	2.221	1	0.136	1.591
Cycle = MA	0.946	0.576	2.702	1	0.100	2.576
University			8.231	2	0.016	
University of Bucharest	−0.240	0.386	0.387	1	0.534	0.787
University of Oradea	0.678	0.326	4.329	1	0.037	1.969
Constant	−2.134	0.338	39.749	1	0.000	0.118

Note. R^2 Nagelkerke = .06.

Table 5. Intention to dropout per university per field of study

			He has thought about dropping out	
University			No (%)	Yes (%)
UA	Which of the following specializations are you enrolled?	Social worker	85.9	14.1
		Psychology	85.7	14.3
	Total		85.8	14.2
UB	Which of the following specializations are you enrolled?	Sociology	77.8	22.2
		Social worker	90.6	9.4
		Psychology	100.0	
		Another, which?	100.0	
	Total		90.2	9.8
UO	Which of the following specializations are you enrolled?	Sociology	71.4	28.6
		Social worker	80.6	19.4
		Psychology	76.9	23.1
		Special Psycho-pedagogy	50.0	50.0
		Social services management	57.1	42.9
	Total		74.8	25.2

Note. UA: University of Arad; UB: University of Bucharest; UO: University of Oradea.

Table 6. Logistic regression model (Block 2)

	<i>B</i>	<i>SE</i>	Wald	<i>df</i>	Sig.	Exp (<i>B</i>)
Cycle			2.689	2	0.261	
Cycle = 2nd year BA	0.426	0.330	1.667	1	0.197	1.531
Cycle = MA	0.798	0.598	1.778	1	0.182	2.220
University			7.961	2	0.019	
UB	−0.228	0.437	0.272	1	0.602	0.796
UO	0.726	0.372	3.805	1	0.051	2.066
Age	0.023	0.033	0.474	1	0.491	1.023
Gender = male	0.100	0.468	0.046	1	0.831	1.105
Marital = married	−0.476	0.708	0.452	1	0.501	0.621
Employment = employed	0.139	0.371	0.141	1	0.707	1.150
Scholarship = yes	−0.168	0.357	0.223	1	0.637	0.845
Tax-free = yes	0.011	0.328	0.001	1	0.973	1.011
Father with tertiary education = yes	0.382	0.308	1.541	1	0.214	1.465
Constant	−2.701	0.756	12.764	1	0.000	0.067

Note. R^2 Nagelkerke = .07. UB: University of Bucharest; UO: University of Oradea.

Explorations

To solve this conundrum, we explored the interactions of the dependent variable with certain independent characteristics and got a surprising result, which has the capacity to cover

(statistically) the effect of belonging to the university: being a tuition-free student at the University of Oradea determines a dramatic increase of the risk of intending to dropout.

Table 8 clearly shows that in terms of dropout intention conditional on the payment of tuition, students at the

Table 7. Logistic regression – Block 3 (climate variables added)

	<i>B</i>	<i>SE</i>	Wald	<i>df</i>	Sig.	Exp (<i>B</i>)
Cycle			2.648	2	0.266	
Cycle = 2nd year BA	0.445	0.339	1.722	1	0.189	1.560
Cycle = MA	0.784	0.610	1.654	1	0.198	2.190
University			8.623	2	0.013	
UB	−0.036	0.451	0.006	1	0.936	0.964
UO	0.896	0.390	5.287	1	0.021	2.451
Age	0.022	0.034	0.430	1	0.512	1.022
Gender = male	−0.013	0.480	0.001	1	0.978	0.987
Marital = married	−0.585	0.737	0.631	1	0.427	0.557
Employment = employed	0.224	0.378	0.352	1	0.553	1.252
Scholarship = yes	−0.056	0.362	0.024	1	0.877	0.945
Tax-free =yes	0.008	0.331	0.001	1	0.982	1.008
Father with tertiary education = yes	0.458	0.312	2.155	1	0.142	1.580
Relationship with teachers good = yes	−1.146	0.538	4.536	1	0.033	0.318
Satisfied with conditions = yes	−0.527	0.405	1.690	1	0.194	0.590
Constant	−1.346	0.925	2.116	1	0.146	0.260

Note. R^2 Nagelkerke = .10. UB: University of Bucharest; UO: University of Oradea.

Table 8. Logistic regression model with interactions

	<i>B</i>	<i>SE</i>	Wald	<i>df</i>	Sig.	Exp (<i>B</i>)
Cycle			3.482	2	0.175	
Cycle = 2nd year BA	0.581	0.344	2.846	1	0.092	1.788
Cycle = MA	0.763	0.614	1.543	1	0.214	2.144
University			0.016	2	0.992	
UB	−0.071	0.848	0.007	1	0.933	0.931
UO	0.041	0.547	0.006	1	0.940	1.042
Age	0.020	0.034	0.343	1	0.558	1.020
Gender = male	−0.046	0.479	0.009	1	0.923	0.955
Marital = married	−0.553	0.732	0.571	1	0.450	0.575
Employment = employed	0.220	0.385	0.327	1	0.568	1.246
Scholarship = yes	−0.123	0.364	0.114	1	0.735	0.884
Tax-free = yes	−1.084	0.670	2.616	1	0.106	0.338
Father with tertiary education = yes	0.533	0.319	2.793	1	0.095	1.704
Relationship with teachers good = yes	−1.143	0.543	4.437	1	0.035	0.319
Satisfied with conditions = yes	−0.413	0.409	1.017	1	0.313	0.662
University × Tuition			5.184	2	0.075	
UB by tuition (tuition-free = 1)	0.869	1.056	0.678	1	0.410	2.385
UO by tuition (tuition-free = 1)	1.903	0.844	5.079	1	0.024	6.705
Constant	−1.208	0.922	1.718	1	0.190	0.299

Note. R^2 Nagelkerke = .12. UB: University of Bucharest; UO: University of Oradea.

University of Oradea and University of Arad show opposite behavior. While tuition-free students from Arad have the lower probability of considering dropping out (6.4%), the tuition-free students from Oradea are in the opposite situation, nearly 30% of them thinking at least once to quit. Concerning the students who have to pay tuition fee, the percentages are similar, but significantly higher than those of the students from University of Bucharest.

Table 9 clearly shows that in terms of dropout intention conditional on the payment of tuition, students at the University of Oradea and University of Arad show opposite behavior. While tuition-free students from Arad have the lowest probability of considering dropping out (6.4%), the tuition-free students from Oradea are in the opposite situation, nearly 30% of them thinking at least once to quit.

Concerning the students who have to pay tuition fee, the percentages are similar, but significantly higher than those of the students from University of Bucharest (Fig. 1).

Obviously at this point, the problem becomes: how to explain the low commitment of tuition-free students from the University of Oradea or, conversely, the low attachment of the tax form students from the University of Arad?

In the case of the University of Oradea in a first phase, we thought a possible simple explanation is the fact that many of those enrolled in tuition free form have chosen their specialization based on the economic perspective and have given up their vocational preferences because of the benefit of exemption from payment of fees. This hypothesis is quickly refuted when comparing opinions of students from the specializations of Psychology and Social Work from the

Table 9. Investigation of interactions

University			Has thought about dropping out		
			No (%)	Yes (%)	Total (%)
UA	Tuition	Tuition paying	82.9	17.1	100.0
		Tuition-free	93.6	6.4	100.0
	Total		85.8	14.2	100.0
UB	Tuition	Tuition paying	91.2	8.8	100.0
		Tuition-free	89.9	10.1	100.0
	Total		90.2	9.8	100.0
UO	Tuition	Tuition paying	80.0	20.0	100.0
		Tuition-free	71.4	28.6	100.0
	Total		74.8	25.2	100.0

Note. UA: University of Arad; UB: University of Bucharest; UO: University of Oradea.

Fig. 1. The intention of dropping out by university and tuition paying

University of Oradea and University of Arad on the one hand, and opinions of students enrolled in Sociology programs at the University of Bucharest and University of Oradea on the other hand.

It is noteworthy that regardless of their specialization (Psychology or Social Work), the contrast between those who pay and those without tuition fee remains even when the comparison between the University of Oradea and University of Arad is made. The situation that contradicts the above hypothesis is that of Psychology specialization because of its strong entrance competition, at least at the University of Oradea, so it is unlikely that those who enrolled in this specialization without having to pay tuition had stronger preferences for another specialization where they could not enter without tax. Concerning the students of Sociology specialization, the numbers are so small that comparisons are less relevant (9 students from the University of Bucharest vs. 21 students from the University of Oradea).

At this point of the analysis, we must admit that we have no other explanation that can be tested. We can speculate, however, that part of the explanation lies in the fact that

students of the University of Oradea are in a larger degree “captive” of their university than those from the University of Arad (Table 10). The small distance between Arad and Timisoara allows the best candidates from Arad to enroll in desired specialties in Timisoara without increasing too much the direct costs of schooling. For many gifted candidates from Oradea, there is no such option.

RESULTS

The main results of this mini-survey tracked the sources of variation of dropout intention of the students involved in the project PractiPASS from the three participating universities:

1. Neither the field of study, nor the educational cycle, nor, especially, the socioeconomic elements that describe student background do explain the intention of dropout. None of the variables in these classes are significant predictors of the indicators of the intention to dropout, whereas the affiliation to the University of Oradea has a consistently strong positive effect on the intention to dropping out.
2. The intention of dropout has one among the few identified covariates the perceived relationship students have with their teachers: as expected, if the relationship students have with their teachers is described in more positive terms, the lower the risk of students thinking about dropping out. Relationships between students and teachers, however, do not explain the variation between universities in terms of intention of abandoning, so we cannot say that, at the University of Oradea, relationships with teachers are of lower quality, which would explain the high frequency of early intention, which we find in this institution.
3. The large share of those who have thought at least once at quitting college at the University of Oradea is covered, in fact, by the unexpected attitudes of students enrolled in the tuition-free form at this institution of higher education: those who are in this situation at the University of Oradea have a six times higher risk than those in the same situation at the “Aurel Vlaicu” University of Arad. This phenomenon is only partially explored in this report, and it appears to be independent of the specialization. Unlike their

Table 10. The intention of leaving, per university, specialization, and registration form

Field of study	University and tuition			He has thought about dropping out		Total (%)
				No (%)	Yes (%)	
Sociology	UB	Tuition	Tuition paying	83.3	16.7	100.0
			Without tuition	66.7	33.3	100.0
		Total		77.8	22.2	100.0
	UO	Tuition	Tuition paying	50.0	50.0	100.0
			Without tuition	73.7	26.3	100.0
		Total		71.4	28.6	100.0
Social work	UA	Tuition	Tuition paying	82.9	17.1	100.0
			Without tuition	91.3	8.7	100.0
		Total		85.9	14.1	100.0
	UB	Tuition	Tuition paying	92.9	7.1	100.0
			Without tuition	90.2	9.8	100.0
		Total		90.6	9.4	100.0
	UO	Tuition	Tuition paying	85.0	15.0	100.0
			Without tuition	78.6	21.4	100.0
		Total		80.6	19.4	100.0
Psychology	UA	Tuition	Tuition paying	83.0	17.0	100.0
			Without tuition	95.8	4.2	100.0
		Total		85.7	14.3	100.0
	UB	Tuition	Tuition paying	100.0		100.0
		Total		100.0		100.0
	UO	Tuition	Tuition paying	79.3	20.7	100.0
			Without tuition	70.0	30.0	100.0
		Total		76.9	23.1	100.0
Special Psycho-pedagogy	UO	Tuition	Tuition paying	75.0	25.0	100.0
			Without tuition	33.3	66.7	100.0
		Total		50.0	50.0	100.0
Social services management	UO	Tuition	Without tuition	57.1	42.9	100.0
		Total		57.1	42.9	100.0
Another, which?	UB	Tuition	Without tuition	100.0		100.0
		Total		100.0		100.0

Note. UA: University of Arad; UB: University of Bucharest; UO: University of Oradea.

colleagues from Arad (those in Bucharest being situated somewhere in an intermediate position in this matter), students who are enrolled in the tuition-free form of study at the University of Oradea, regardless of specialization, are less attached to the aim of completing their studies than their peers that pay tax. Although, theoretically, belonging to similar structural situations, the students who do not pay tuition at the two universities act apparently different motivating forces. This suggests that economic incentives – recorded here as tuition-free education – in higher education enrollment cannot offset the need for intrinsic motivation in the form of following one's vocation, and policies that will intend to direct career choices based on this kind of instruments will determine low goal commitments and large dropout rates. This needs to be explored further though.

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