



Grants: A bridge to university access. The impact of an Information Intervention

Federica Laudisa, Samuele Poy

EUROSTUDENT Talks - 14th November 2024





Why Conduct This Research?







Addressing EDISU Piedmont's Need for Knowledge

Do secondary school students know about student financial aid programs (and do they know EDISU Piedmont)?





We already knew the answer





An analysis based on administrative data in 2016/17 showed that:

58% of those enrolled in the first year at two universities in Piedmont, within the economic threshold for access to the scholarship, did not apply for grant

Scholarship application	No. of eligible first-year students	%	
YES	1,093	41.8	
NO	1,520	58.2	
TOTAL	2,613	100.0	





Are 5th-year secondary schools students in Piedmont aware of student financial aid (scholarships, first and foremost)?

Does informing them about available financial aid influence their decision to enroll in higher education?





How Did we Address this Question?







A randomized controlled trial



1. We randomly selected a **representative sample** of high school seniors in Piedmont

We selected 30% of high schools in Piedmont

2. The sample was randomized into two groups: classes of "treated" students and control classes

15% in the treated group and 15% in the control group, about 8,800 students (out of almost 31,000 enrolled)

The research steps/1

We adopted a stratified sampling divided into two strata:

- School type (high schools, technical and vocational schools)
- Geographical area



3. All students were surveyed in class with a CAWI questionnaire between February and June 2023

4. An informational meeting was held in the 'treated' classes, immediately after the administration of the questionnaire

iiiiii 🥯 📠



l'Istituto di Ricerche Economico Sociale del Piemonte (IRES) attraverso questo questionario intende rilevare il grado di conoscenza degli aiuti che puoi ricevere se ti iscrivi ad un corso di livello universitario. Lo scopo è migliorare l'informazione in futuro.

Per rispondere al questionario occorrono circa 10 minuti. Ricorda: non ci sono risposte giuste o sbagliate.

Il questionario è anonimo. Le risposte saranno trattate <u>esclusivamente in forma aggregata</u> a fini statistici. I dati non saranno comunicati ad altri soggetti.



The treatment group attended a 25-minute presentation providing detailed information about the grant (including eligibility requirements, application procedures and award amounts)



5. Follow-up interviews were conducted with all students after their graduation from high school, between December 2023 and mid-February 2024, to determine how many had enrolled in university and if they applied for a grant

6. Comparison of rates between the treatment and control groups



The impact of the informational session





68 schools took part in the research project, representing 85% of the initially selected students.

At the time of the survey, nearly 6,900 students were present in the classroom, with 6,560 responding:

N° TREATED	3,102	
N° CONTROLS	3,458	



Ultimately, we interviewed 21% of all high school seniors enrolled in Piedmont in the 2022/23 academic year.





Are Students Aware of the Scholarship and EDISU Piedmont?



Fewer than 9% of the surveyed students know the organization that manages and provides the scholarship.

95.1

72.0

6% accurately identify the eligibility requirements.



It's the organization that manages student financial aid



19.2

8.8

Do you think that people enrolling at university can receive a scholarship? YES

Do you know how to apply for a scholarship? YES

Accurately identifies the eligibility requirements

Knows how to apply for a grant



Who intends to continue their studies?

s?	

	Coeff.	Std. Error
A. Gender (v. Male)		
Female	0.093***	(0.012)
B. School district (vs. AL-AT)		
BI-NO-VC-VCO	-0.014	(0.027)
CN	-0.010	(0.028)
TO (town)	0.090***	(0.030)
TO (district)	0.033	(0.026)
C. Migrant background (vs. Italian)		
1st generation foreigners	0.016	(0.025)
2nd generation foreigners	0.049***	(0.014)
D. School type (vs. vocational school)		
Technical schools	0.127***	(0.029)
Other high schools	0.299***	(0.035)
Classic/scientific high schools	0.399***	(0.029)
E. Average grade in the first quarter(vs. six or less)		
Seven	0.139***	(0.013)
Eight	0.203***	(0.018)
More than eight	0.268***	(0.019)
F. Parents' education level (vs. Lower secondary		
education)		
Upper secondary education	0.033**	(0.014)
Tertiary education	0.099***	(0.016)
I don't know	-0.029	(0.022)
G. Participation in guidance activities (vs. low)		
Medium	0.088***	(0.012)
High	0.135***	(0.018)
H. Aware of EDISU grant	0.097***	(0.024)
I. Aware of tuition fee exemption	0.066***	(0.012)
Numbers of observations	6.559	

The **probability** of planning to **continue studies** at university level, *all other factors in the model being equal*, **is significantly higher for** those who:

- have participated in many guidance activities
- are aware of EDISU grant and tuition fee exemption
- Are female
- Are enrolled in a high school
- Have a high average grade
- Have parents with tertiary education





Does Scholarship Awareness Influence Further Study?





Positive and significant impact on the probability of university enrolment of +2.8 percentage points.









Female students have a 4.0 p.p. higher probability of university enrolment than the control group.

Impact on those who were less informed and uncertain whether to continue for economic



...and only on those who were uncertain to continue their studies for economic reasons: **+8.3** p.p.

No effect on vocational and technical track students

Effect on those who participated in few guidance activities (+3.6 p.p.):

A single information meeting had an impact on those who were less informed

Does Raising Scholarship Awareness Boost Grant Applications?

Positive and significant impact on the probability of applying for a grant of +7.4 percentage points

 +15.9** p.p. probability of applying for the grant for those whose parents have lower secondary education

 +13.8*** p.p. for those with a parental background of upper secondary education

In conclusion

- Information gaps on student financial aid are relevant
- It's necessary to increase students' awareness of scholarship opportunities, as they significantly influence university enrollment, especially for those who are undecided for economic reasons
- For those undecided for reasons other than economics and for vocational graduates, other types of support should be put in place

Why are you undecided to continue your studies?

- I prefer to find a job
- I think studying at university is difficult
- Other reasons
- I don't like studying
- For economic reasons
- I don't think a degree is useful for my future

Indecision on which course of study to choose

OTHER REASONS

- > Not being able to find the right course for one's aptitudes or interests
- Fear of not succeeding, insecurity about one's abilities, anxiety

I wouldn't know which path to take Indecision about the future I am afraid of making the wrong choice I am afraid of not making it *I* don't think I'm up to university Afraid that it's not the right path I don't feel I can take the pressure of studying anymore I don't feel ready to face university I don't think I can handle the anxiety Fear of not being able to finish wasting money Uncertainty about the future, low self-esteem and stress Mental health reasons It depends on my already compromised mental health Fear of failing the admission test I can't find a course that suits my interests I still haven't found a course that suits me best I can't find an address that interests me fully I still don't have such clear ideas

THANKS!

laudisa@ires.piemonte.it

samuele.poy@uniupo.it

www.ires.piemonte.it

www.ossreg.piemonte.it

ALMA MATER STUDIORUM Università di Bologna

Does financial aid matter for academic experience? Evidence from the Eurostudent survey

Loris Vergolini

Eurostudent Talks

14 November 2024

Summary of the presentation

- 1. What we know so far (in a nutshell)
- 2. Research questions
- 3. Data, variables and methods
- 4. Main results
- 5. Discussion and conclusions

Here is what we know so far (1)

Stable increase in **educated workforce**:

- Share of college-educated workers in developed economies has steadily increased.
- Significant rise among 25–34-year-olds in OECD countries: from 27% in 2000 to 48% in 2021.

Persistent social inequalities:

• Enrolment and completion disparities remain a concern.

Financial aid as a key policy tool:

- Financial aid are often used to address educational inequalities in Higher Education.
- Extensive literature highlights overall positive effects of financial aid.

Here is what we know so far (2)

Different type of **measures** can be linked to financial aid:

• Grants; loans; tax relief and incentivised saving (i.e., asset building).

Grants versus loans:

- Grants improve academic performance both in the US (Dynarski & Scott-Clayton 2013) and in Europe (Herbaut & Geven 2020).
- Loans (at least in some contexts) seem also to be effective in boosting university enrolment (Wiederspan 2016).
 - Loans carry the risks of default (Dynarski 2016).
 - Research is needed on the costs and benefits of student loans (Chapman & Doan 2019).

Theoretical framework

Utility of a degree

Probability of success

Costs (direct and opportunity)

Expected benefit

 $\neg U = f(B \cdot P - C)$

Theoretical framework

Probability of success

UNIVERSITÀ DI BOLOGNA

Costs (direct and Utility of a degree opportunity) $\neg U = f(B \cdot P - C)$ **Financial aid Expected benefit Reduction of the costs** connected to Higher Education More time for studying Academic experience Less need to work during the lecture period More time to attend lectures

Research questions

H1) Does grants and loans have the same effects on academic experience?

H2) Is there a mediating effect of work activity and study intensity?

Data:

Data used in this paper come from the 7th round of **Eurostudent** survey administered in **13 European countries** in 2019 (Austria, Croatia, Denmark, Estonia, Finland, Georgia, Hungary, Ireland, Lithuania, Luxembourg, Netherlands, Poland, Slovenia).

A Wide set of information on several aspects of the "university life" has been collected:

- Current study situation.
- Study background.
- Study conditions.
- Living conditions.
- International mobility.
- Socio-demographic characteristics.
- Socio-economic background.

Variables:

The **dependent** variable (**academic experience**) is the result of a factor analysis on the following set of items (measured according to a 5-point Likert scale from "Strongly agree" to "Do not agree at all"):

- It is often hard to discover what is expected of me in my current study programme.
- I would recommend my current study programme.
- I often have the feeling that I don't really belong in higher education.
- I am seriously thinking about changing my current study programme.
- I am seriously thinking of completely abandoning my higher education studies.

Variables:

The factor analysis clearly indicates a **one factor solution** (high values of this index represents a positive academic experience):

Items	Factor loadings	
V1	0.427	
V2	0.513	
V3	0.633	
V4	0.673	
V5	0.701	
% explained variance: 49.35		

Variables:

The **main independent** variables (grants and loans) are derived from the following question:

• Are you receiving a public grant/scholarship or a public loan during the current lecture period?

Overall, we have **32.5**% of students with a grant and **7.6**% with a loan (the vast majority in the Netherlands).

The **mediating variables** are:

- Work activity → Do you have (a) paid job(s) during the current lecture period? About 60% of students experienced some kind of work activity.
- Study intensity → variable provided by Eurostudent. About 30% of students declare to have a high study intensity.

Methods:

OLS regression to identify the influence of financial aid (grants & loans).

- $Y_i = \alpha + \beta Grant_i + \gamma X + \theta Country_i$
- $Y_i = \alpha + \beta Loan_i + \gamma X + \theta Country_i$
- $Y_i = \alpha + \beta_1 Grant_i + \beta_2 Loan_i + \beta_3 (Grant_i \cdot Loan_i) + \gamma X + \theta Country_i$

Academic experience (Y_i) has been standardised to facilitate the interpretation of the results.

Mediation analysis, via structural equation model (SEM), to identify the role played by intervening variables such as working activity and study intensity.

Main results: first hypothesis (selected parameters)

	Academic experience			
	Model 1		Model 2	
	Coeff.	S.E.	Coeff.	S.E.
Grants	0.094***	0.012		
Loans			0.007	0.015
N R ²	68,821 0.058		56,327 0.056	

Note: **p* < 0.10, ***p* < 0.05, ****p* < 0.01.

The models control for socio-demographic characteristics; social origins (parental education) and university related variables and for country fixed effects.

Main results: : first hypothesis (interaction effect)

Predicted values of academic experience according to the *interaction* between grants and loans

Main results: second hypothesis (Grant)

Main results: second hypothesis (Grant)

Conclusions and discussion

- The analyses show that:
 - Grants seem to be better than loans in producing a **positive academic experience**.
 - There is a **mediation** effects of job activity and study intensity (even if not always in line with my expectations).
- Future improvement:
 - The role of **job activity** should be deeper analysed considering further variables (i.e., coherence between the job and the field of study).
 - From a methodological point of view \rightarrow implementation of a **counterfactual** approach.

Thank you for your attention!

loris.vergolini@unibo.it

Twitter:@LorisVergolini