Stylized facts on financial capabilities of university students: Evidence of survey at UdeC Chillan Campus

Erik Berwart¹ Andrés C. Medina²

¹ Superintendency of banks and financial institutions

² University Santiago de Chile

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Introduction

- Over the last two decades Financial literacy has been adquiring an incresed importance. As an example the World Bank, the IDB, the OECD among other international entities have done some research on the economic importance of this topic.
- Lusardi & Mitchell (2011) show the negative impact of poor financial literacy on nations budget, specifically related to pension decisions.
- Xu & Zia (2012) y Lusardi & Mitchel (2013) give a panoramic view of financial literacy around the world, stressing that the major unresolved issue is how to measure the impact of financial literacy programs and strategies.

Survey design

- The idea of the survey is to enable us to have an assesment of the financial capabilities (knowledge, attitudes and behavior) of the university students.
- A brief version of the OECD survey on financial capabilities was used giving us comparability with a set of national surveys.
- UdeC decided to apply the survey to all the students in their 1st, 3rd and 5th year. The survey was taken by monitors using a digital platform.

Data

■ The survey was given between May and June 2017 to 651 students of UdeC Chillan Campus with some demographic questions in three areas: Knowledge, Attitudes and Behavior.

Descriptive Statistics

Male	Female	Total
307	344	651

Table: Summary surveyed by sex

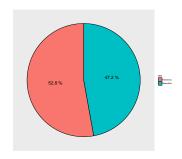


Figure: Percent surveyed by sex



Descriptive Statistics

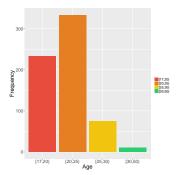


Figure: Distribution surveyed by range age.

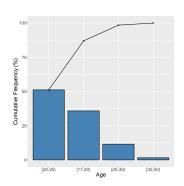


Figure: Pareto chart by range age.





Concept	Mín	1er.Q	Med	Av	3er.Q	Máx	Std
Knowledge	0	5	6	5.8	7	8	1.33
Attitudes	0	2	2	2.3	3	5	1.12
Behavior	0	3	6	5.1	6	8	1.65
Total	0	12	14	13.2	15	20	2.83
Behavior	0	-	6	5.1	6	8	1.

Table: Summary statistics about scores



Composit	UDEC	SBIF-0	CAF
Concept		Nacional	18-29
Knowledge	5.8	5.12	5.1
Attitudes	2.3	3.03	3.21
Behavior	5.1	5.83	5.62
Total	13.2	13.98	13.93

Table: Average score





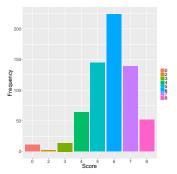


Figure: Score about knowledge financial

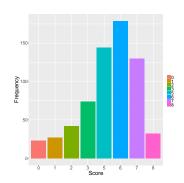
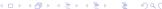


Figure: Score about behavior inancial





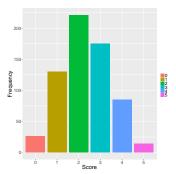


Figure: Score about attitudes financial

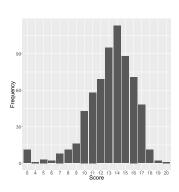
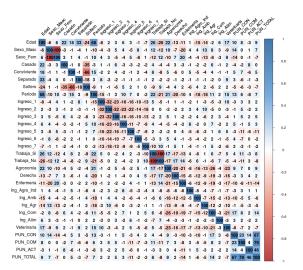


Figure: Score final









Logistic regression

We tried to find if survey scores, among other variables, allow us to explain delincuency rates:

$$P(X) = \frac{1}{1 + e^{-\left(\beta_0 + \sum_{i=1}^K \beta_i X_i\right)}}$$

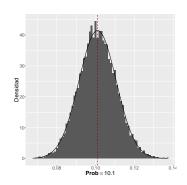


Figure: Distribution surveyed in default

Logistic regression

	Variable Dependiente: $P(Y_i = x X)$		
	Modelo 1	Modelo 2	Modelo 3
Edad	1.056**	0.402	0.416*
	(0.443)	(0.252)	(0.237)
Género	-1.190	-2.288	-2.051
	(2.100)	(1.945)	(1.718)
Ingresos	0.418	0.041	0.062
	(0.509)	(0.085)	(0.085)
Trabaja	-0.933	-3.429*	-3.416*
-	(2.155)	(1.846)	(1.834)
Período	-0.740	-0.065	-0.294
	(0.731)	(0.560)	(0.535)
Carrera	0.258	0.346	0.360
	(0.272)	(0.280)	(0.273)
Cred.Comerciales	-0.00000*	-0.00000	-0.00000
	(0.00000)	(0.00000)	(0.00000)
Cred.Consumo	0.00001**	0.00001**	0.00001**
	(0.00001)	(0.00001)	(0.00001)
Cred.Conting	-0.00000*	-0.00000*	-0.00000**
-	(0.00000)	(0.00000)	(0.00000)
Cred. Vivienda	0.000	-0.00000	-0.00000
	(0.0001)	(0.0001)	(0.0001)
Línea.Cupo	-0.00000**	-0.00000**	-0.00000°***
	(0.00000)	(0.00000)	(0.00000)
Instituciones	7.017***	7.532***	7.891***
	(2.718)	(2.647)	(2.587)
P.Conoc	, ,	-1.247**	. ,
		(0.596)	
P.Comport		-0.545	
		(0.518)	
P.Act		-0.134	
		(0.728)	
P.Total		/	-0.791**
			(0.365)

p<0.1; p<0.05; p<0.05; p<0.01

Note:





Conclussions

- Knowledge does not fully explain financial capabilities. Therefore, a policy implication is that some efforts should be focused as well on attitudes and building healthy financial habits.
- There is a negative relationship between financial knowledge and delincuency rates.
- Delincuency rates of the sample are almost 3 times higher than the national average, therefore a natural question is how banks are performing risk assessments of university students.

Future Challenges

- To incorporate non banking information such as retail credit cards.
- Analyze fixed effects of carrears, family income, banks, etc.
- Add more results to the sample from other universities around the country.