Repeated Prisoner's Dilemma with Children

Marco Goretti

1 Data Analysis

Table 1: **Players by age**

	Moyenne (tous)	Moyenne (ayant obtenu un bachelor)
Mean	3.96	4.59
SD	0.93	0.35

Table 2: Probability that a kid collaborates

VARIABLES	(1) quant_2	(2) moyenne_2
delta_SCI1	0.497***	1.896***
	(0.116)	(0.511)
delta_MIX1	0.176***	0.610***
	(0.032)	(0.138)
Sexe = 2, M	-0.003	0.039
	(0.010)	(0.043)
Constant	0.579***	4.091***
	(0.008)	(0.035)
Observations	1,909	1,909
R^2	0.012	0.009

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Table 3: Probability that a kid collaborates

VARIABLES	(1) quant_3	(2) moyenne_3
delta_SCI1	-0.265**	-0.273
	(0.124)	(0.317)
delta_MIX1	-0.052	-0.057
	(0.035)	(0.087)
Sexe = 2, M	-0.036***	-0.071***
	(0.010)	(0.025)
Constant	0.667***	4.787***
	(0.008)	(0.020)
Observations	1,103	1,103
R^2	0.015	0.008

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Table 4: Probability that a kid collaborates

	(1) fini	(2) fini	marginal
delta_SCI1	10.372***		
	(1.456)		
delta_MIX1	3.522***		
	(0.461)		
delta_OTH1		-2.378***	-0.441***
		(0.300)	(0.055)
Debut = 2007	3.614***	3.536***	0.455***
	(0.403)	(0.403)	(0.028)
Debut = 2008	1.640***	1.593***	0.322***
	(0.185)	(0.182)	(0.033)
Debut = 2009	0.471***	0.454***	0.110***
	(0.141)	(0.140)	(0.034)
Debut = 2010	0.357***	0.361***	0.089***
	(0.137)	(0.136)	(0.033)
Constant	0.102	0.120	
	(0.104)	(0.103)	
Observations	2,103	2,102	2,102

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

$$\frac{1}{1+e^{-t}}$$

	delta	P(S | high)	P(S | low)
Qua	± 0.1	0.76	0.28
Mix	$+0.4/-0.5$	0.82	0.16
Oth	± 0.5	0.25	0.79

	(1) moyenne 2e	(2) moyenne 3e
Males	-0.030	-0.088***
	(0.029)	(0.024)
Echec.	-1.484***	
	(0.047)	
Bach. Eco.	0.273***	0.223***
	(0.025)	(0.034)
Constant	4.443***	4.757***
	(0.020)	(0.019)
Observations	1,913	1,107
R^2	0.579	0.053

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

VARIABLES	(1) moyenne
Sexe = 2, M	-0.050**
	(0.022)
MSc = 1, M-DER	0.178***
	(0.048)
MSc = 2, M-DGF	0.172
	(0.112)
MSc = 3, MDE	-0.214**
	(0.100)
MSc = 4, MScACF	0.125***
	(0.032)
MSc = 5, MScAS	0.119***
	(0.037)
MSc = 6, MScE 2	0.366***
	(0.047)
MSc = 7, MScF	0.231***
	(0.031)
MSc = 8, MScF 2	0.224***
	(0.046)
MSc = 9, MScIS	0.048
	(0.047)
MSc = 10, MScM 2 M+	0.011
	(0.032)
Constant	4.482***
	(0.021)
Observations	1,083
R^2	0.117

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

$$\overline{quant} = \delta_{SCI}\beta_1 + \delta_{MIX}\beta_2 + M\beta_3 + \epsilon$$

$$moyenne = \delta_{SCI}\beta_1 + \delta_{MIX}\beta_2 + M\beta_3 + \epsilon$$

$$P(S) = \sigma(\delta_{SCI}\beta_1 + \delta_{MIX}\beta_2 + \text{Years } \gamma + \epsilon)$$

	(1) quant 2	(2) moyenne 2
delta_SCI1	0.497***	1.896***
	(0.116)	(0.511)
delta_MIX1	0.176***	0.610***
	(0.032)	(0.138)
Male	-0.003	0.039
	(0.010)	(0.043)
Constant	0.579***	4.091***
	(0.008)	(0.035)
Observations	1,909	1,909
R^2	0.012	0.009

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

	(1) quant 3	(2) moyenne 3
delta_SCI1	-0.265**	-0.273
	(0.124)	(0.317)
delta_MIX1	-0.052	-0.057
	(0.035)	(0.087)
Male	-0.036***	-0.071***
	(0.010)	(0.025)
Constant	0.667***	4.787***
	(0.008)	(0.020)
Observations	1,103	1,103
R^2	0.015	0.008

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

	(1) quant 2
Management	-0.061***
	(0.022)
Maths	0.104***
	(0.039)
Compta	0.127***
	(0.031)
Constant	0.604***
	(0.009)
Observations	951
R^2	0.042

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

	(1) quant 2
Management	-0.037
	(0.047)
compta I	-0.176***
	(0.059)
compta II	0.122**
	(0.057)
Prog	-0.143**
	(0.063)
Droit 1er	-0.209***
	(0.046)
Droit 2e	0.033
	(0.051)
Modeles Info	-0.252***
	(0.062)
Stats I	-0.130**
	(0.057)
Stats II	0.089
	(0.060)
Constant	0.610***
	(0.017)
Observations	551
R^2	0.175

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1