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11-11-2009

Leaving University without Graduating: Evidence from Canada's Youth in Transition Survey

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Citation of this paper:

Lehmann, Wolfgang and Tenkorang, Eric, "Leaving University without Graduating: Evidence from Canada's Youth in Transition Survey" (2009). Sociology Presentations. 2.

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LEAVING UNIVERSITY WITHOUT GRADUATING

Evidence from Canada's Youth in Transition Survey

RDC Brown Bag Series
The University of Western Ontario

London, November11, 2009

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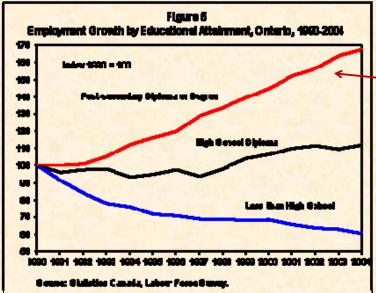
Outline



- Context
 - Knowledge economy
 - Revolution of expectations
 - Labour market outcomes
 - Persistent class inequalities
- Data & Methodology
 - YITS
- Analysis and Findings
- Other related research

Context: Knowledge Economy





- Increase in jobs requiring postsecondary credentials
- Pervasive public discourse: need for higher education
- Human capital central to education and labour market policies

Labour Market Outcomes Unemployment

Unemployment rates of population aged 15 and over, by level of education, Canada, 1990 to 2006

	All levels	Less than high school ^s	High school ²	College or trade ^a	University
			percentage		
990	8.1	12.4	7.8	6.3	3.5
991	10.3	15.4	10.2	8.2	4.5
992	11.2	17.0	10.9	9.3	5.1
993	11.4	17.0	11.6	9.6	5.1
994	10.4	16.1	10.2	9.0	5.4
995	9.5	15.1	9.6	7.9	5.0
996	9.6	15.4	9.8	8.1	5.3
997	9.1	15.7	9.2	7.4	4.5
998	8.3	14.5	8.6	6.5	4.3
999	7.6	13.5	7.8	5.9	4.5
000	6.8	12.5	7.0	5.2	3.9
001	7.2	13.1	7.2	5.8	4.0
002	7.7	13.9	7.8	5.9	5.0
003	7.6	13.8	7.8	5.8	5.4
004	7.2	13.2	7.5	5.6	4.5
005	6.8	12.6	7.1	5.3	4.0
006	6.3	12.3	6.5	5.1	4.

1. Includes no education or education below high school graduation.

 Includes high school graduation or some postsecondary education (not completed).
 Includes trade certificate or diploma from a vocational school or apprenticeship training; non-university certificate or diploma from a college, CEGEP, school of nursing and similar programs at this level; university certificate below bachelor's level.

Council of Ministers of Education, Canada. 2005. Education indicators in Canada: Report of the Pan-Ganadian Education Indicators Program. Catalogue no. 81-582-XIE. Ottawa.).

The unemployment rate is based on a monthly average from January to December.

Source: Labour Force Survey, Statistics Canada.



Education = lower chances of unemployment

Over time: University graduates less dependent on boom-bust cycles

Labour Market Outcomes Income

Western

Canadian Population 15 years and over and average earnings by highest degree, certificate or diploma, 2001

Highest Level	Less	High	Trades	College	Uni-
of Schooling	than	School			versity
	high				
	school				
Average					
Earnings	\$21,713	\$25,807	\$33,868	\$33,531	\$48,183
(Canadian	K				7
Average:					
\$32,183)					

Source: Statistics Canada, 2001 Census

Education increases income potential

Context: Educational Attainment



Participation rate in education, by education level and age, Canada, 1995/1996 and 2005/2006

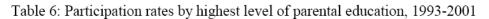
								Age							
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
							pe	rcentage							
1995/1996															
Primary/Secondary	97	93	72	38	13	4	2	2	1	1	1	Х	Х	1	1
University	Х	Х	2	10	21	25	26	22	15	12	8	7	5	5	4
College	х	2	12	20	23	18	15	11	10	7	6	5	4	3	3
Total	97	94	86	68	57	48	43	35	26	19	14	12	9	9	7
2005/2006															
Primary/Secondary	95	92	77	30	10	4	2	1	1	1	Х	1	Х	Х)
University	Х	Х	2	19	27	29	30	27	21	18	11	9	8	6	5
College	1	1	9	20	23	18	12	10	10	7	5	4	4	3	8
Total	96	93	88	69	60	52	45	39	31	26	16	14	12	10	8

Note: The participation rate is based on a monthly average from September to April. Source: Labour Force Survey, Statistics Canada.

Source: Education Indicators in Canada: Report of the Pan-Canadian Education Indicators Program 2007, p. 339

"Revolution of Expectations" (Davies 2005)57% of parents hope for kids at university

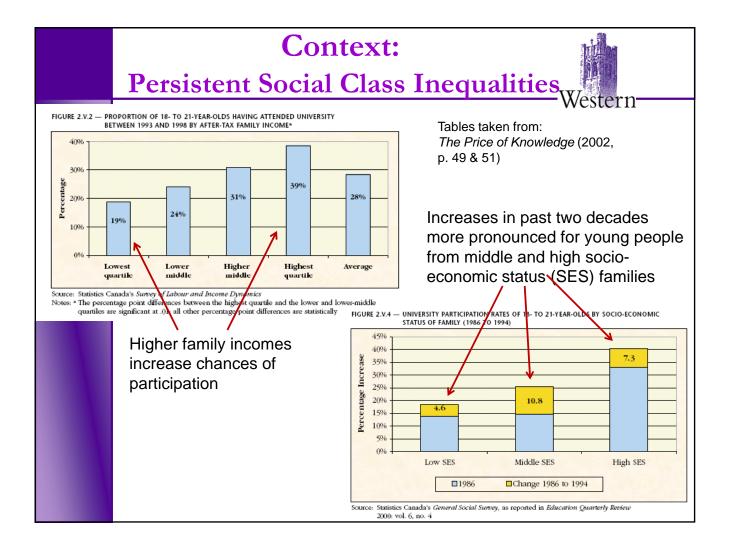
Context: Persistent Social Class Inequalities



Participation rates	1993	1994	1995	1996	1997	1998	1999	2000	2001
in any post-secondary education									
University	80.7	83.1	81.7	86.4	86.4	80.5	83.8	80.3	81.1
Post-secondary certificate or diploma	63.7	67.3	65.7	70.7	69.8	69.5	67.0	67.8	68.2
High school or less	49.6	52.4	54.2	56.5	56.7	55.9	53.7	51.8	52.5
in university									
University	47.7	52.5	53.2	59.7	54.9	48.2	52.8	49.2	49.6
D	260	20.5	261	(2.435)	` /	(2.549)	(2.295)	` /	(2.378)
Post-secondary certificate or diploma	26.3	28.7	26.1	33.0	31.7	30.6	27.0	26.3	27.8
High school or less	16.9	19.0	19.4	(2.340) 18.7 (1.237)	(2.421) 19.0 (1.360)	(2.137) 18.2 (1.311)	(1.580) 17.5 (0.998)	(1.487) 16.5 (1.021)	(1.613) (16.6) (1.005)

Source: Participation in Post-secondary Education in Canada (Statistics Canada, 2005, p. 34)

- •University participation significantly related to parental levels of education
- •No change in this relationship over time



Context University & Social Class



Some examples

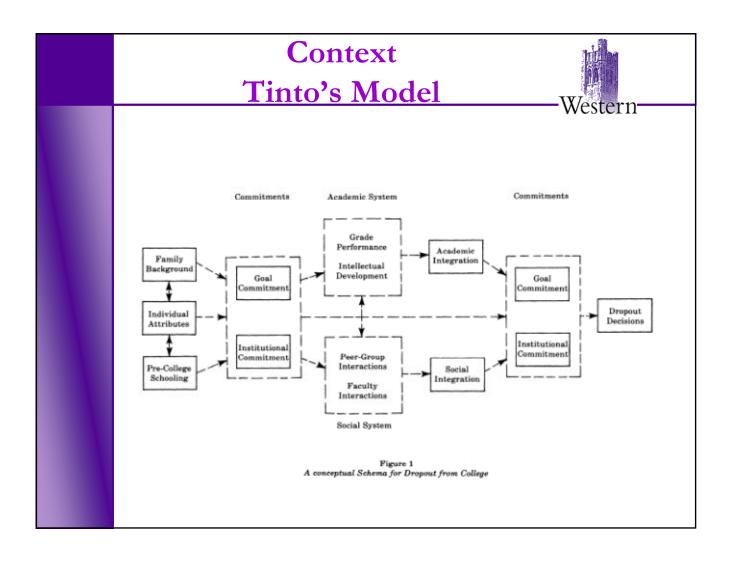
- Access
 - E.g., Andres et al. 1999; Anisef et al. 2000; Krahn (& Lowe)
- Expectations
 - E.g., Lehmann 2004; 2005
- Experiences
 - E.g., Lehmann 2005;; Granfield 1991; Aries & Seider 2005;
- Dropout
 - Evidence in UK and US data (e.g., Walpole 2003; Quinn 2004)
 - Not in Canadian data (e.g., Grayson 1997; Statistics Canada 2000: School Leavers Follow-up Survey; Krahn 2004)

Context University & Social Class



Theoretical

- Rational Choice
 - Goldthorpe (1996)
 - Relatively high investment with uncertain outcomes
- Cultural Reproduction
 - Bourdieu
 - Cultural capital
 - Habitus & dislocation



Research Questions



- Is having university-educated parents or not (i.e., first-generation student status) a significant direct factor in university attrition in Canada?
- Are students with high levels of social and academic integration less likely to drop out of university?
- Are students with clear career goals less likely to drop out of university?
- Does first-generation status (i.e., first in family at university) mediate the various predictors of university dropout in a way that students with parents who do not have university degrees become less socially and academically integrated and are therefore more likely to drop out of university?
- What is the role of gender?
- What is the role of employment during university?

Data: YITS



- Youth in Transition Survey (YITS).
- Longitudinal survey jointly developed by Human Resources and Skills Development Canada (HRSDC) and Statistics Canada.
- Cycle 1: 18-20 cohort
 - Administered between January and April of 2000
- Sampling frame: 29,164 households across Canada,
 - Drawn from a probability-based sample of the population and linked to Statistic Canada's Labour Force Survey (LFS).
 - In total, 23,592 individuals participated in the survey, for an overall response rate of 81 percent
- Sample size for our analyses reduced to 3819
 - Youth who were or had been enrolled at university at the time of data collection.
 - Approx. 16% of the overall sample size of the YITS survey.
 - Of this sub-sample, 213 (or 5.6%) had left university without graduating at the time of data collection.

Data: YITS



- Dependent variable:
 - Dropout status
 - "Graduate/continuer" vs. "Leaver"
- Independent variables
 - Gender
 - Parental educational attainment
 - · Determines FG status
 - Social integration at university
 - Index created from questions re: friendships, belonging, etc.
 - Academic integration at university
 - Index created from questions re: attendance, deadlines, homework, comprehension of material, etc.
 - Clarity of future career goals
 - Index created from questions re: career plans, seeing connections between university and work, etc.
 - Hours worked off campus during academic year
 - Academic and social integration during high school
 - Indices created from questions re: friendships, involvement, relationships with teachers, enjoying learning, etc.

Results



Table 1. Percentage of university students in sample who left university without graduating, by various characteristics (YITS, 18-20 cohort, cycle 1)

	%
Total	5.1
Parent's Education	
Below University (both parents)	5.9
University degree (at least one parent)	4.2
Social Integration in High School	
Low	5.9
High	4.1
Academic Integration in High School	
Low	5.3
High	5.0
Academic Integration at University	
Low	6.8
High	3.5
Social Integration at University	
Low	6.2
High	3.3
Clarity of Future Plans	
Low	6.7
High	2.8
Gender	
Male	6.4
Female	4.1
Hours Worked during Term	
1- 29 hours	6.4
>30 hours	15.7
Not worked at all	3.6

Note: All results have been weighted

Results



Table 2: Clarity of future plans, university integration and hours worked by first-generation student status; (YITS, 18-20 cohort, cycle 1)

	Parents with University Education	Parents without University Education		
Variables	%	%		
Total				
Clarity of Future Plans				
Low	59.7	56.8		
High	40.3	43.2		
Social Integration at University				
Low	58.4	65.5		
High	41.6	34.5		
Academic Integration at University				
Low	48.8	50.4		
High	51.2	49.6		
Hours Worked during Term				
1- 29 hours	39.2	42.2		
>30 hours	2.4	3.5		
Not worked at all	58.4	54.3		

Note: All results have been weighted

Variables	Model 1 exp ^β	Model 2 \exp^{β}	Model 3 \exp^{β}	Model 4 exp ^β	Model 5 exp ^β
Parent's Education	СЛР	САР	САР	САР	СХР
Below University (both parent	(s) 1.00				
University degree (at least one					
parent)	.073				
Social Integration in High					
School School					
Low					
High					
Academic Integration in Hig	h				
School	, 				
Low					
High					
Academic Integration at					
University					
Low					
High					
Social Integration at Univers	sitv				
Low	•				
High					
Clarity of Future Plans					
Low					
High					
Gender					
Male	1.00				
Female	.614**				
Hours Worked during Term					
1- 29 hours					
>30 hours					
Not worked at all					
Wald Chi-square	8.38 (2)				
Log Pseudo-Likelihood Model Significance	-762.78 0.015				

Variables	Model 1 exp ^β	Model 2 exp ^β	Model 3 exp ^β	Model 4 exp ^β	Model : exp ^β
Parent's Education					
Below University (both parents)	1.00	1.00			
University degree (at least one	.695	.713			
parent)					
Social Integration in High					
School					
Low					
High					
Academic Integration in High					
School					
Low					
High					
Academic Integration at					
University					
Low		1.00			
High		.525***			
Social Integration at University		1			
Low		1.00			
High		.555**			
Clarity of Future Plans					
Low		$\overline{}$			
High					
Gender					
Male	1.00	1.00			
Female	.614**	.647*			
Hours Worked during Term					
1- 29 hours					
>30 hours					
Not worked at all					
Wald Chi-square	8.38 (2)	19.29 (4)			
Log Pseudo-Likelihood Model Significance	-762.78 0.015	-746.71 0.000			

Variables	Model 1 exp ^β	Model 2 \exp^{β}	Model 3 exp ^β	Model 4 exp ^β	Model 5 exp ^β
Parent's Education					
Below University (both parents)	1.00	1.00	1.00		
University degree (at least one	.695	.713	.693		
parent)					
Social Integration in High					
School					
Low					
High					
Academic Integration in High					
School					
Low					
High					
Academic Integration at					
University					
Low		1.00	1.00		
High		.525***	.627**		
Social Integration at University					
Low		1.00	1.00		
High		.555**	.618		
Clarity of Future Plans					
Low			1.00		
High			.508**		
Gender			1		
Male	1.00	1.00	1.00		
Female	.614**	.647*	.636*		
Hours Worked during Term			\ /		
1- 29 hours					
>30 hours					
Not worked at all					
Wald Chi-square	8.38 (2)	19.29 (4)	27.92 (5)		
Log Pseudo-Likelihood Model Significance	-762.78 0.015	-746.71 0.000	-738.24 0.000		

Variables	Model 1 exp ^β	Model 2 \exp^{β}	Model 3 exp ^β	Model 4 exp ^β	Model 5 exp ^β
Parent's Education					
Below University (both parents)	1.00	1.00	1.00	1.00	
University degree (at least one	.695	.713	.693	.720	
parent)					
Social Integration in High					
School					
Low					
High					
Academic Integration in High					
School					
Low					
High					
Academic Integration at					
University					
Low		1.00	1.00	1.00	
High		.525***	.627**	.607**	
Social Integration at University					
Low		1.00	1.00	1.00	
High		.555**	.618	.686	
Clarity of Future Plans					
Low			1.00	1.00	
High			.508**	.517**	
Gender				/	
Male	1.00	1.00	1.00	1.00	
Female	.614**	.647*	.636*	.591**	
Hours Worked during Term				1	
1- 29 hours				1.00	
>30 hours				2.394**	
Not worked at all				.530**	
Wald Chi-square	8.38 (2)	19.29 (4)	27.92 (5)	41.95 (7)	
Log Pseudo-Likelihood Model Significance	-762.78 0.015	-746.71 0.000	-738.24 0.000	-722.95 0.000	

Variables	Model 1 exp ^β	Model 2 \exp^{β}	Model 3 \exp^{β}	Model 4 exp ^β	Model 5 exp ^β
Parent's Education					
Below University (both parents)	1.00	1.00	1.00	1.00	1.00
University degree (at least one	.695	.713	.693	.720	.714
parent)					
Social Integration in High					
School					
Low					
High					1.00
Academic Integration in High					.716
School					
Low					
High					1.00
Academic Integration at					.835
University					
Low		1.00	1.00	1.00	1.00
High		.525***	.627**	.607**	.588**
Social Integration at University					
Low		1.00	1.00	1.00	1.00
High		.555**	.618	.686	.686
Clarity of Future Plans					
Low			1.00	1.00	1.00
High			.508**	.517**	.518**
Gender					/
Male	1.00	1.00	1.00	1.00	1.00
Female	.614**	.647*	.636*	.591**	.599**
Hours Worked during Term					1
1- 29 hours				1.00	1.00
>30 hours				2.394**	2.388**
Not worked at all				.530**	.537**
Wald Chi-square	8.38 (2)	19.29 (4)	27.92 (5)	41.95 (7)	49.48 (9)
Log Pseudo-Likelihood Model Significance	-762.78 0.015	-746.71 0.000	-738.24 0.000	-722.95 0.000	-720.59 0.000

Summary of Findings



- First-generation status
 - Percentage differences expected
 - · Higher percentage of FG dropouts
 - · FG less integrated
 - · FG more likely to work
 - But also: FG more likely to have clear career goals
 - Regression results show FG status NOT significant predictor of dropping out
- What predicts dropping out?
 - Academic integration (lowers risk)
 - Having clear career goals (lowers risk)
 - Working during term (increases risk)
 - Being a man (increases risk)

Discussion



- FG still an important consideration
 - Importance of work during academic year
 - Affects FG and low SES students
- Socialization experiences in high school
 - Are those at university already different from other low SES high school students?
 - Role of streaming and mentoring at HS for university access
- Reasons for dropping out
 - Voluntary vs. "forced"
 - Timing of dropout decision
- Dropout vs. stopout
 - Who returns to university?
 - Who returns to other PSE?

How does this relate to other research?



Qualitative studies (e.g., Lehmann 2007; Aries & Seider 2005; Quinn 2004)

- Social background does play an important role in how students experience university
 - Crucial in forming dispositions to either persist or drop out
 - Access to resources (e.g., tutors, money)
- First-generations students
 - More likely to leave early, despite strong academic achievement
 - Not feeling university
 - Not fitting in
 - Not being able to relate
 - Discover true vocational nature
- Importance of habitus (Bourdieu)
 - Evidence of habitus dislocation and habitus-based selfcensorship (Bourdieu)

How does this relate to other research?



More recent YITS analysis; using data from first 4 cycles (age 24-26 in Dec 2005)

Shaienks, D., & Gluszynski, T. (2009). *Education and Labour Market Transitions in Young Adulthood; Catalogue no. 81-595-M — No. 075.* Ottawa: Statistics Canada.

- The following factors were found to be related to dropping out
 - Being male (increases risk)
 - Being 26+ (increases risk)
 - Have parents with incomplete PSE (increases risk)
 - NOTE: parents with low levels of educational attainment not significant)
 - Few homework hours in HS (increases risk)
 - High grades in HS (80+) (lowers risk)
- Did not control for employment during studies or integration/engagement at university

Policy Implications



- Need to better understand reasons for dropping out to develop preventive programs
 - Dropout/stopout
 - Timing
 - Financial reasons
 - Integration
 - Academic
- Needs-based financial support for low SES, FG students
 - Importance of work in analysis
 - Academically relevant employment opportunities?
- Research at primary and secondary education levels
- Renew discussion on range of PSE alternatives
 - University vs. community college vs. apprenticeship and vocational education