

Provincial Variation in the Causal Dynamics of Youth Poverty

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Literature

- Timing/ordering of life-course events increasingly varied since the mid 1970s
 - Longer periods in education
 - Shorter job tenure, higher job mobility
 - More combination of school/work
 - Delayed transitions to adult states/activities
- Variability in the life-course linked to:
 - Rising economic pressures on youth
 - Increased vulnerability of youth to various types of employment/financial uncertainty
 - (Blossfeld, et al. 2005, 2010, 2011)



Image Source: Ansel Adams, American; Freeway Interchange, Los Angeles, 1967; gelatin silver print. The Lane Collection. ©2007 The Ansel Adams Publishing Rights Trust.

Figure 1. Ratio of youth unemployment (ages 15-24) to overall unemployment (ages 15 and over) (seasonally adjusted)

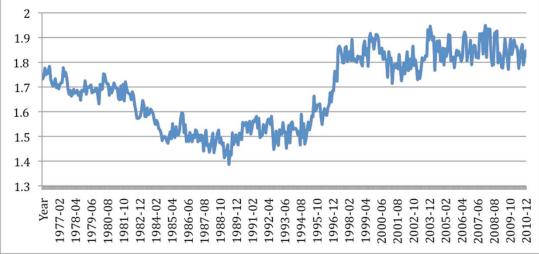
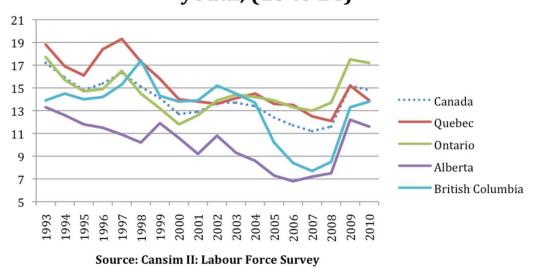
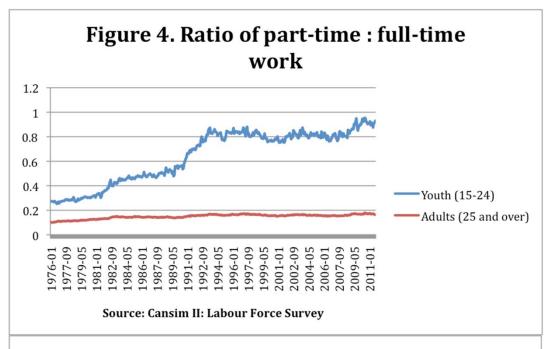


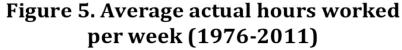
Figure 2. Unemployment rate among youth, (15 to 24)

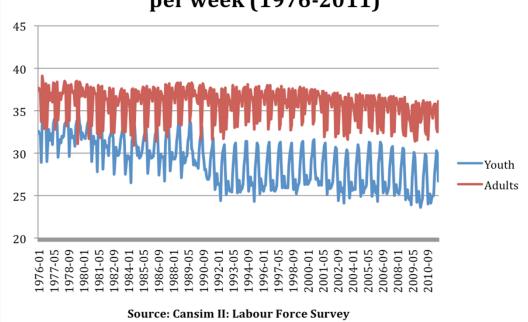


LM Fortunes of Youth in Canada

- I) Youth: Overall unemployment rises to nearly 2:1 after 1994
- 2) Absolute youth unemployment declines from 1993-2008







LM Fortunes of Youth in Canada

- I) After 1989, the rate of part-time work among youth increases and stays fairly stable
- 2) After 1989, The average actual hours worked by youth declines and stays fairly stable.
- 3) Adult rates of part-time work and average actual hours worked stay fairly stable.

Trading Work for School

- Rise in PSE participation independent of LM fortunes (Lemieux, Beaudry and Parent 1999)
- Fundamental shift in the employment patterns of youth:
 - higher rates of temporary, seasonal, part-time labour, and increased employment of students (Picot & Sweetman 2005)
- Negative impact on median youth income and youth poverty rates



Image Source: UW Commencement 1966; crowd of people in gowns. University of Wisconsin Madison Archives.

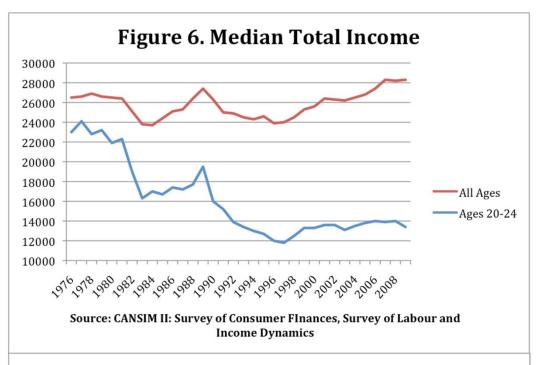
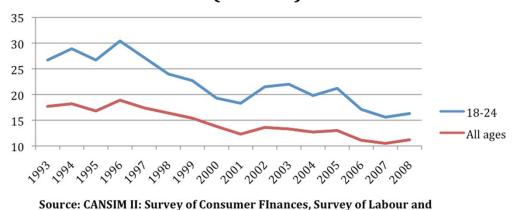


Figure 7. LICO after tax, 1992 base, % of persons below, 18-24 vs. all ages (Canada)



Income Dynamics

Declining Fortunes of Youth in Canada

- 1) 1989-1996: drop in median income
- 2) After 1996, some recovery in median income
- 3) After 1996, decline in youth poverty (LIM and MBM similarly decline)

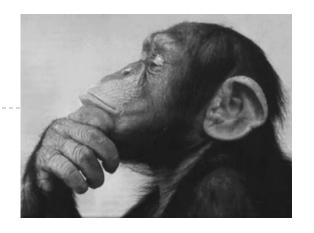
Figure 11. LIM after tax, % of persons below, ages 18-24 32 27 22 Canada 17 Quebec Ontario 12 Alberta BC Source: CANSIM II: Survey of Consumer Finances, Survey of Labour and **Income Dynamics**

Declining Fortunes of Youth in Canada

According to the LIM (between 1999-2005) youth poverty is:

- 1) Highest in BC
- 2) Lowest in Ontario
- 3) About average in Quebec and Ontario
- * These patterns are also evident in LICO and MBM data.

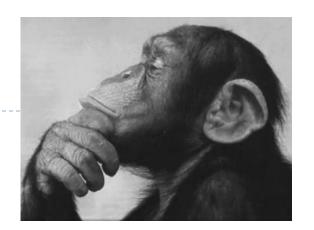
Research Questions



- Are there provincial differences in the variability of the life-course?
- Do these differences coincide with provincial differences in youth poverty rates?

Hypotheses

- From 1999-2005, ceteris paribus,
 - levels of life-course variability should be:
 - ▶ I) Highest in British Columbia
 - > 2) Lowest in Ontario
 - > 3) About average in Quebec and Alberta



Data

- Statistics Canada's Youth in Transition Survey (YITS)
- Cycles I-5 (1999-2007)
- ▶ Cohort B: Youth aged 18-20 at beginning of survey
- Analysis limited to four major provinces:
 - Quebec, Ontario, Alberta, BC
- Two sub-samples defined

Sample Selection

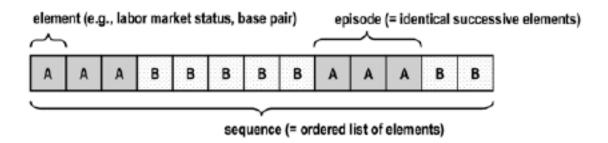
- Sample I
- Cycles I-4 (1999-2005)
- Ages 18-26
- All respondents

- Area of focus: PSE education and beginning of school-towork transition
- Permits comparison with youth poverty rates

- Sample 2
- Cycles 4-5 (2004-2007)
- Ages 23-28
- PSE graduates, noncontinuers
- Area of focus: school-towork transition
- Does not permit comparison with youth poverty rates
- Serves as control for possible effect of PSE participation rates

Basic Concepts

- Analysis oriented around life-course 'elements' (potential monthly statuses/states):
 - I) Combined work and full-time study
 - 2) Work
 - ▶ 3) Full-time study
 - ▶ 4) Neither work nor full-time study

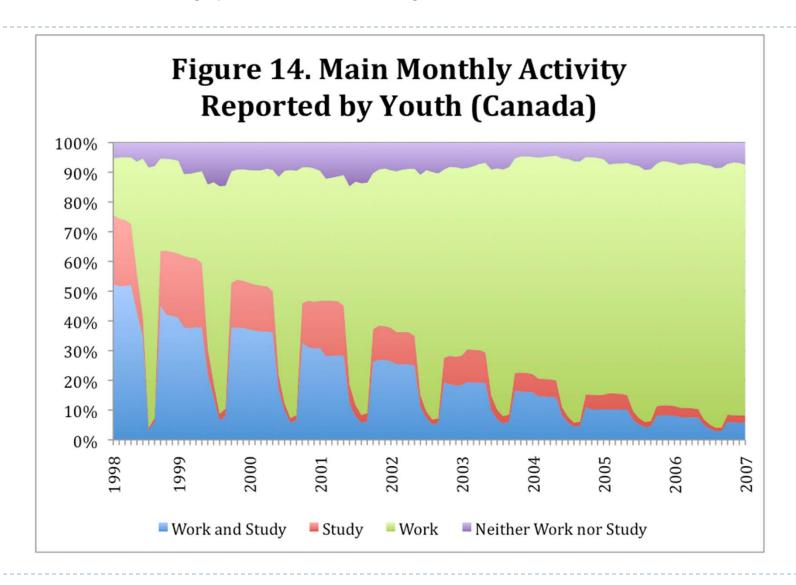


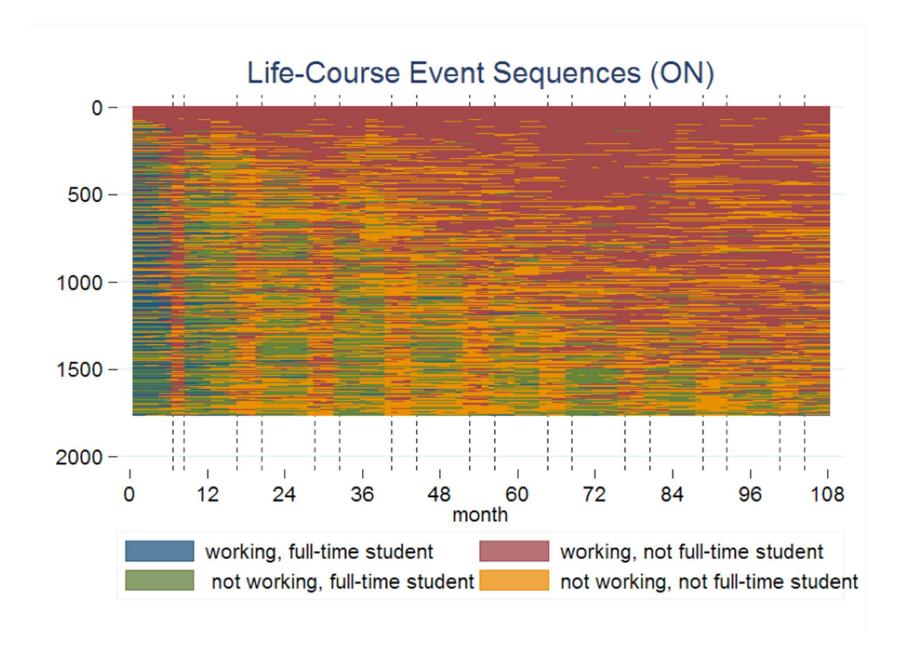
- Which cluster into:
 - 'episodes' (series of identical successive elements)
 - 'sequences' (complete, ordered list of elements/episodes)

Methodology

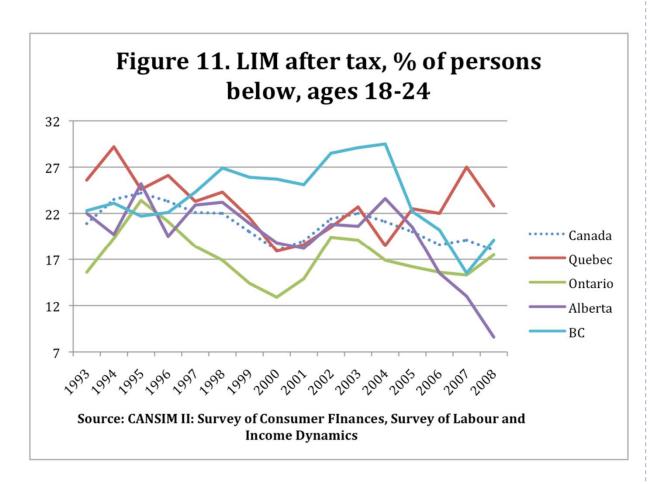
- Variability in the life-course assessed using two measures:
- Entropy (information theory)
 - Measures how dissimilar a set of statuses are *across* respondents, each month, and how this changes over time
- Complexity (Elzinga 2010)
 - Measures variability within sequences over the course of a given time-period, overall

How Orderly/Disorderly is the Life-Course?

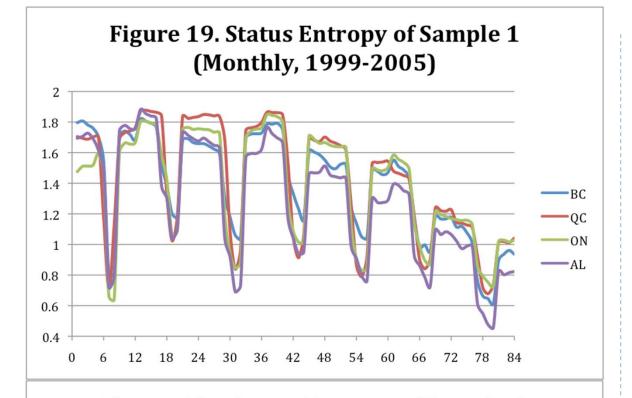


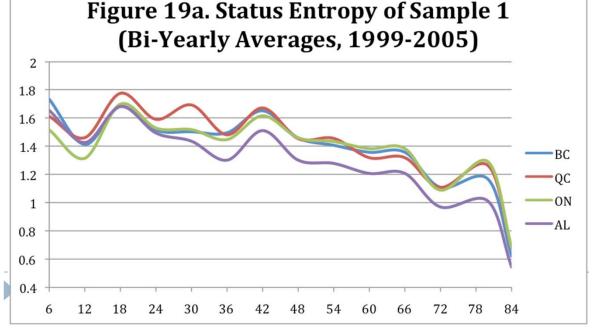


Measures of Variability, 1999-2005: Do they match youth poverty rates?



- 1) BC highest
- 2) Ontario lowest
- 3) Quebec and Alberta intermediate





Results

- I) Hypotheses I-3 supported only by first six months of data
- 2) Hypothesis I supported only during the summers of 2000-2004
- 3) Little to no support for positive association between variability in the life-course and youth poverty rates
- 4) Lack of *any* clear connection between variability and youth poverty

Figure 20. Status Entropy of Sample 2, After PSE Graduation,(Monthly, 2004-2007)

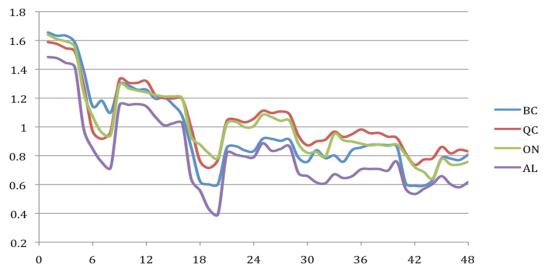
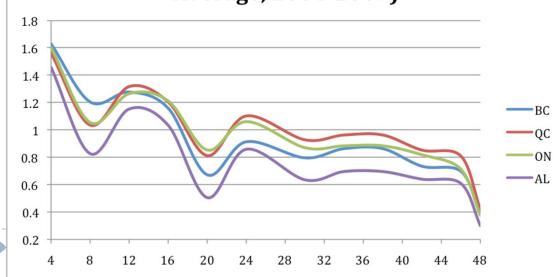


Figure 20a. Status Entropy of Sample 2, After PSE Graduation, (Tri-Yearly Average, 2004-2007)



Results

- I) Hypotheses I and 3 are partially supported by first I0 months of data (BC highest, QC moderate) (this is last time period where poverty data applies)
- 2) Levels of entropy follow roughly the same patterns as in sample I, with the exception of BC, whose level of entropy is lower in this sample, closer to AL.
- 3) Higher PSE participation rates in ON, QC do not result in inflated variability measures

Measures of Complexity

Table 1. Median Complexity Values, Sample 1

	OM, no durations	XT, no durations	XT, durations
QC ON	27.7	9.6	12.4
ON	27.6	9.3	12.0
BC	24.0	7.6	10.2
AL	23.2	7.3	9.8

Table 2. Median Complexity Values, Sample 2

	OM, no durations	XT, no durations	XT, durations
QC	9.9	2.8	4.2
QC ON	9.2	2.8	3.9
BC	9.0	2.8	3.6
AL	7.9	2	2.5

Higher values indicate:

- 1) More transitions and/or distinct states,
- and/or variation in timing/duration of events, within sequences

Results

- I) Complexity measures, regardless of how they are calculated, replicate the results obtained by the entropy statistics.
- 2) Overall, QC has highest variability, followed by ON, BC, then AL.

Main Conclusion

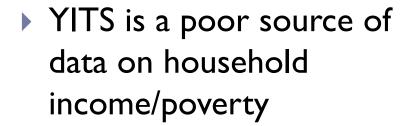
- According to the intra-cohort comparison conducted here:
- ▶ I) A positive relationship between greater variability in the life-course and poverty among youth is not guaranteed.
- ▶ 2) Care should be taken in positing a strong link between economic distress and life-course variability

End of Part I

Part 2: Finding harmony between research objectives and the available data

The Dilemma:

YITS is a great source of data for those studying youth and the life-course





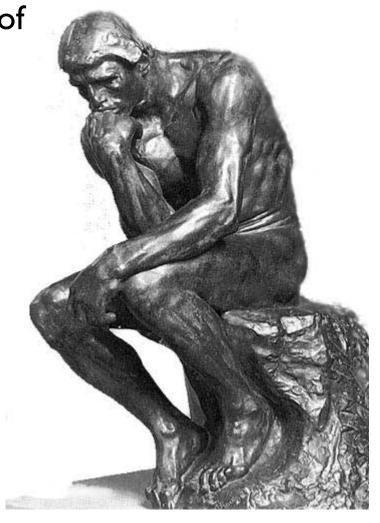


Solution Attempt #1 (seen earlier)

Compare provincial-level measures of poverty and variability using YITS

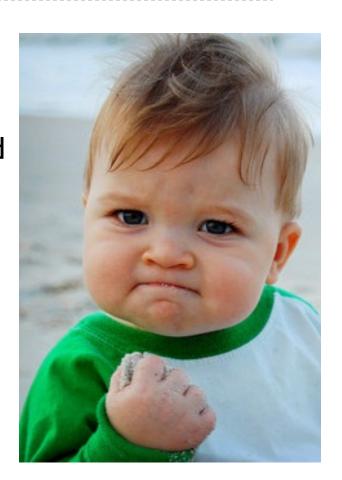
See if they co-vary

- Is this a valid approach?
 - Debatable.
- Weaknesses
 - ▶ n=4
 - Analysis limited by sample size
 - Findings contradict previous research



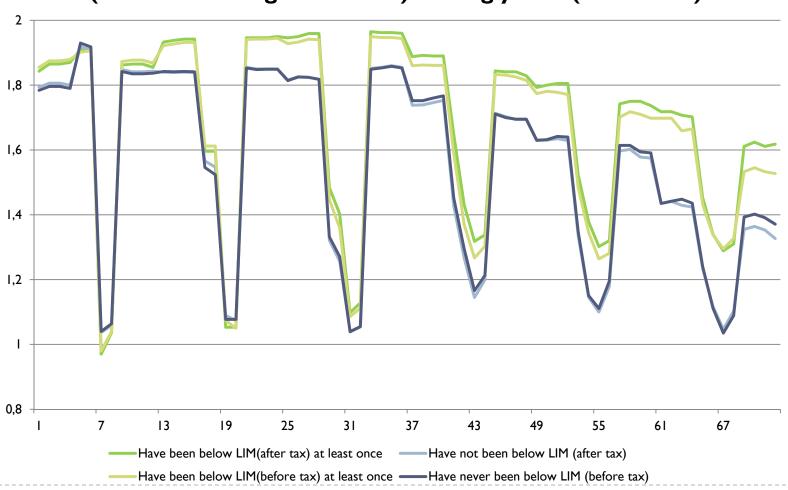
Solution Attempt #2 (in progress)

- ▶ Reproduce analysis with:
- Survey of Labour and Income Dynamics (SLID)
- Create sub-samples of youth who have and have not experienced poverty
 - See if measures of variability differ
- Is this a valid approach?
 - More direct measure of the relationship
- Weaknesses
 - Data less suited to explanatory analysis (n≈200)

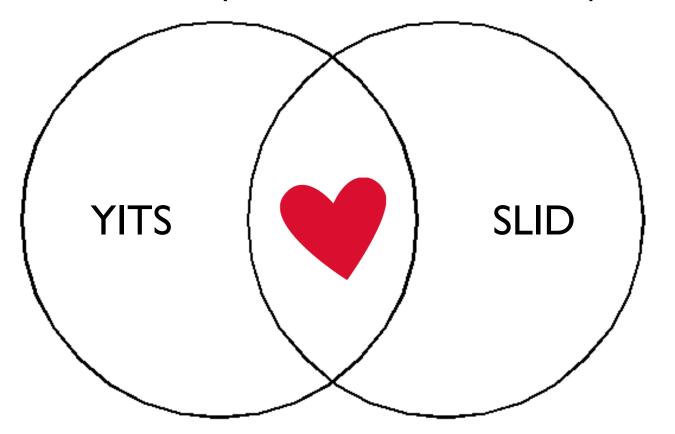


Preliminary Results from SLID

Figure 21. Entropy levels and experience of poverty (defined as being below LIM) among youth (1999-2004)



Solution: match your dataset with a suitable partner



Whose weaknesses and strengths are complementary

Thank You!