

Is **love** independent of the irrelevant alternatives?

Using a multinomial logit model to study immigrant interpartnering in Canada.

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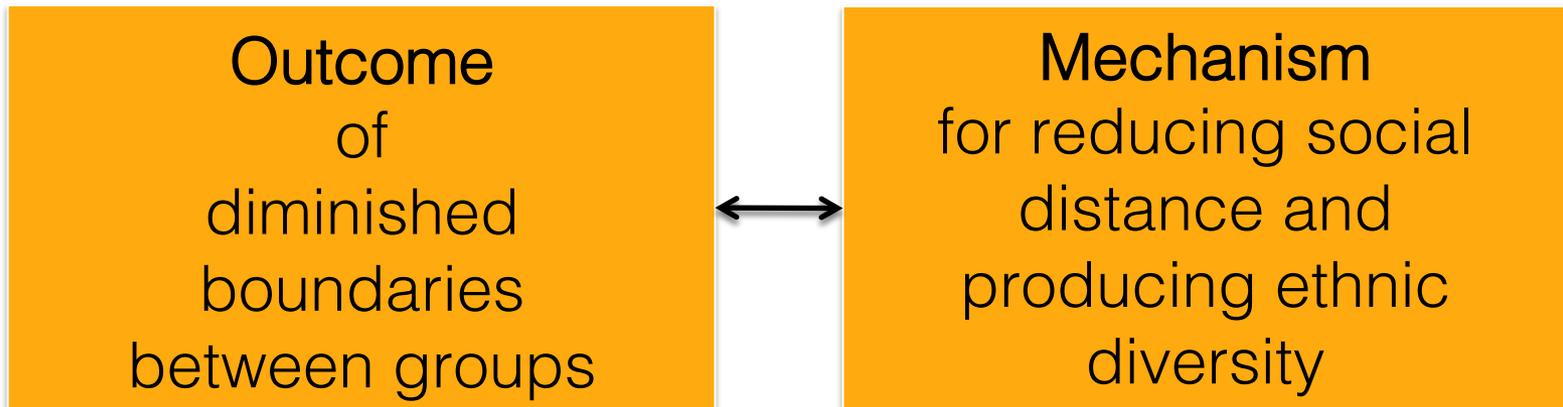
“Marrying out and beyond:
explaining national and immigrant
boundaries among Latin American
children immigrants in Canada”

Interpartnering

- Marital exogamy
 - Marrying/cohabiting with someone from a different group or status.
- Degree of difference between spouses indicates social distance and reflects stratification systems and social boundaries

Immigrant interpartnering

- Integration: process through which boundaries between immigrants and native-born are diminished.
- Considered the ultimate indicator of immigrant social integration.



Theoretical explanations

Sex, age, education

Changing patterns of union formation

Social exchange

Demographic and structural factors

Socialization

Modes of incorporation

a) Are there differences by country of birth in interpartnering?

b) What explains those differences?

c) Do the determinants explaining exogamous unions with non-conational Canadian-born and foreign-born differ?

2006 Canadian Census

Adults aged 20-39 who immigrated to Canada as children, currently in a heterosexual union.

Born in Chile, El Salvador, Guatemala, and Mexico.

Multinomial logit regression analysis.

Models stratified by sex.



Type of union

Endogamous with
conational
(irrespective of nativity)



Exogamous with non-
conational foreign-born
(irrespective of race/ethnicity, nationality)



Exogamous with
non-conational
Canadian-born
(irrespective of race/ethnicity)



Is **love** independent of
the irrelevant
alternatives?

Multinomial logit models make the assumption of
independence of irrelevant alternatives (IIA).

$$\log \frac{P(Y_i = j)}{P(Y_i = s)} = \alpha + X\beta$$

Where $P(Y_i=j)$ is the probability that i^{th} observation is in the j^{th} type of exogamous union, $j = 1$ (foreign-born) or 2 (Canadian-born), and s stands for endogamous union (conational).

The ratio of probabilities does not depend on other alternatives available.

Gael García
(conational)

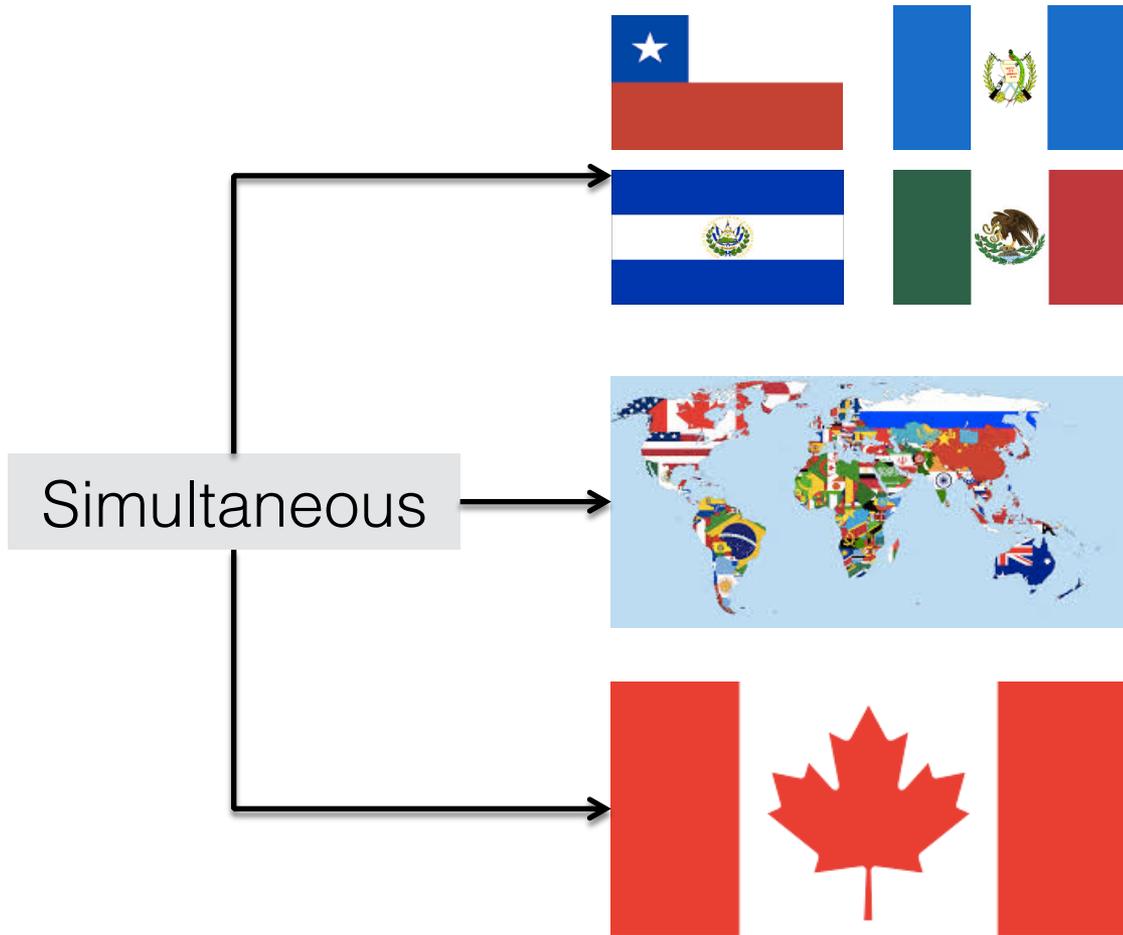


Jared Leto
(non-
conational
foreign-born)

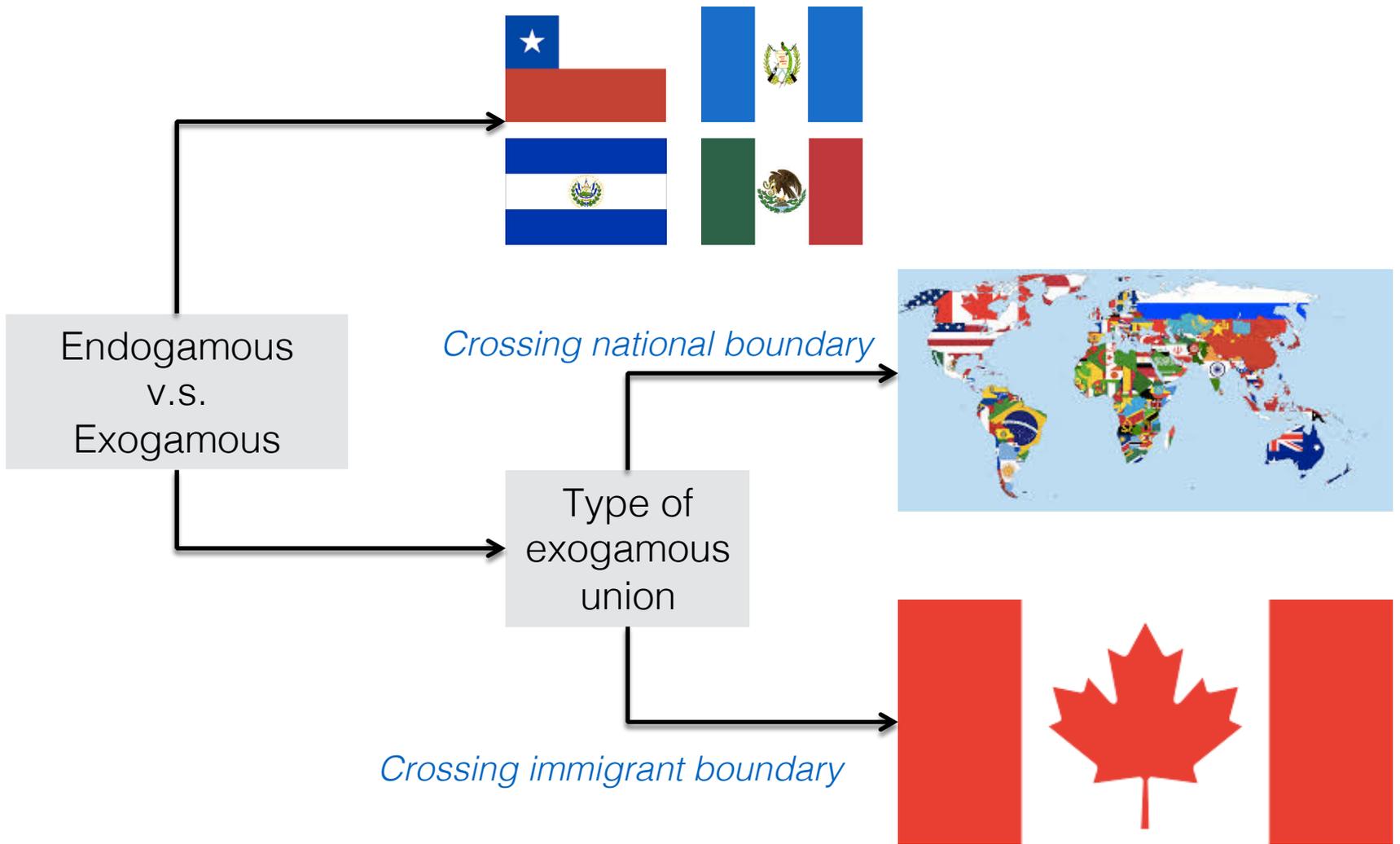


**Ryan
Gosling**
(non-
conational
Canadian-
born)

Under IIA



Not under IIA



Hausman and McFadden test

In Stata: Standard `hausman` test has limitations

- Solution: use `suest` and `test` commands
 - Fit full model using `mlogit` (3 alternatives)
 - Fit two restricted models using `mlogit` (excluding 1 alternative)
 - Fit a seemingly unrelated estimation with stored results (`est store`) using `suest`
 - Test statistically significant differences of coefficients using `test`

IIA holds when accounting **for all** theoretical explanations

Theory

Changing patterns of union formation

Social exchange

Demographic and structural constraints

Socialization

Modes of incorporation

Implementation

Marital status (marriage or cohabitation)

Education and age gaps

Place of residence, group size, and replenishment

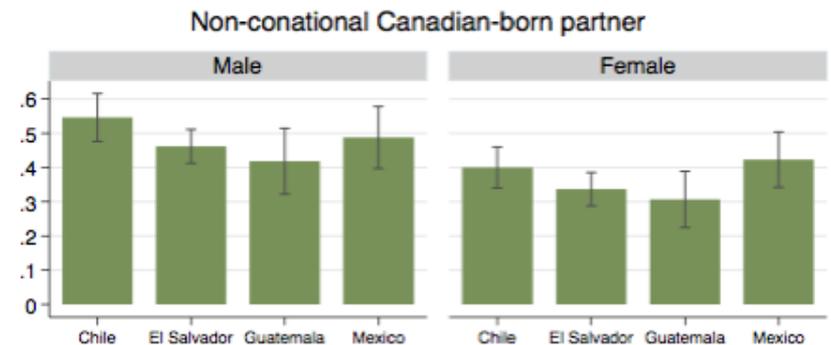
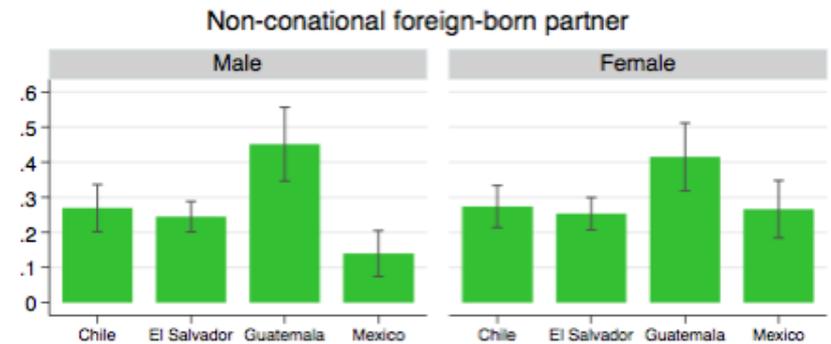
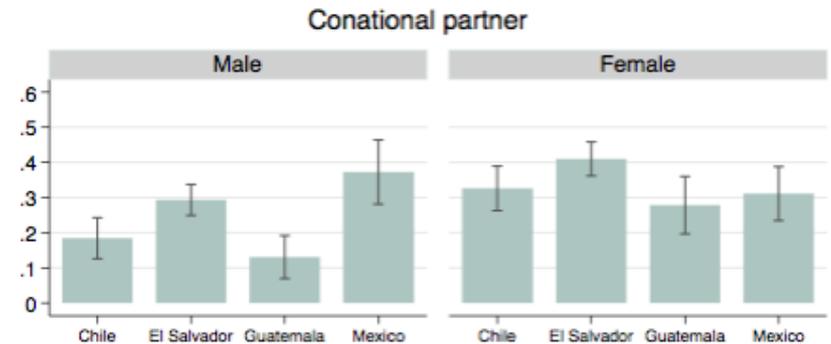
Age at arrival

Cohort of arrival

Results

1. Country differences

- more prominent among men
- more noticeable in interpartnering with non-conational foreign-born



Different determinants by type of partnering

2. Interpartnering with non-conational foreign-born
 - Structural factors matter
 - Not explained by socialization processes and modes of incorporation

3. Interpartnering with non-conational Canadian-born
 - Socialization matters
 - Gender differences
 - Men: Context of reception
 - Women: Structural factors

THANKS. MERCI.

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```
quietly mlogit `depv' `mod`i'' if female == 0 , base(1) nolog
est store ml`i'_M

quietly mlogit `depv' `mod`i'' if female == 0 & tunion3c!=2 ,
  base(1) nolog
est store ml`i'a_M

quietly mlogit `depv' `mod`i'' if female == 0 & tunion3c!=3 ,
  base(1) nolog
est store ml`i'b_M

quietly suest ml`i'_M ml`i'b_M , noomitted

test [ml`i'_M_Foreign_born = ml`i'b_M_Foreign_born ] , cons

quietly suest ml`i'_M ml`i'a_M , noomitted

test [ml`i'_M_Canadian = ml`i'a_M_Canadian ] , cons
```