

The role of the partner age gap on first births by age at union formation: a cross-regional perspective

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Fertility and family trends: Insights from GGS Austria and beyond - 20/11/2024





Background: Partnership characteristics and fertility

There is a large body of evidence on the association between partnership characteristics and fertility behaviours, e.g.:

- ► Marriage vs. cohabitation
- ► Social homogamy / heterogamy
- Delay of partnership formation
- Age difference between partners



In heterosexual couples, men tend to be older than their female partners (Ausubel et al., 2022)

- ► **Gendered preferences**: women tend to prefer older men, while men tend to be more attracted to younger women
- Association with other mating patterns (e.g., social homogamy/heterogamy)
- Social perceptions/stigma: higher attractiveness of older men and lower attractiveness of older women
- Availability of partners on the partnership market

NB: The age difference is measured as the age of the male partner - age of the female partner



Background: Partner age gap by age at union formation

The age difference varies with age at partnership formation (Kolk, 2015):

- ▶ The older men (re)partner, the greater the age gap with the female partner
- ▶ With age, women tend to form a (new) partnership with men their age or younger

This is mirrored in parental age gap patterns (Dudel et al., 2023):

- ▶ The parental age gap increases with age at fatherhood
- and decreases with age at motherhood



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Research question

- ▶ Based on the age difference between partners and at starting the union, which partnerships are more likely to result in a birth?
- ► Are there differences across contexts?



- Regions:
 - Northern Europe: Denmark, Norway
 - Western Europe: Germany, Austria, Netherlands
 - ► Central and Eastern Europe (CEE): Czechia, Estonia, Moldova, Belarus, Croatia
 - Latin America: Uruguay and Argentina (Buenos Aires)
- ► Cohort 1970-1989 (who were aged 30 or over at the time of the survey)
- Retrospective information on first coresidential partnerships
 - Different-sex couples
 - Ego is childless at union formation
 - Formed before age 41



	Northern Europe		Western Europe		CEE		Latin America	
	F	М	F	М	F	М	F	М
Mean age at first cohabitation	23.2	25.0	23.6	25.6	23.2	25.3	23.8	26.2
Mean age diff between partners	2.0	2.0	2.8	1.6	2.5	2.1	2.1	2.6
N	2,298	1,736	3,641	2,476	5,837	4,157	1,046	581

Table: Descriptive statistics by region



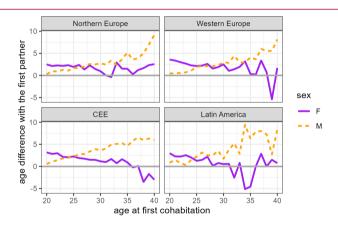


Figure: Average age difference with the partner by age at first union



- Cox models by sex and region
- ► Estimate the likelihood of first partnerships to result in a first birth
- Age difference as categorical
- ▶ Interaction with age at cohabitation (cat.)
- Controls for individual characteristics (education, religiosity, birth cohort, migration background) and other partnership characteristics (whether the partner already has a child, marriage)
- ▶ Interaction results displayed as cumulative hazards (ref: tertiary educated, cohort 1970-79, not married, no step child, average religiosity level, born in the surveyed country)



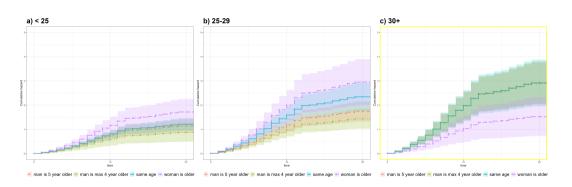


Figure: Cumulative hazards of first births, Men in Northern Europe



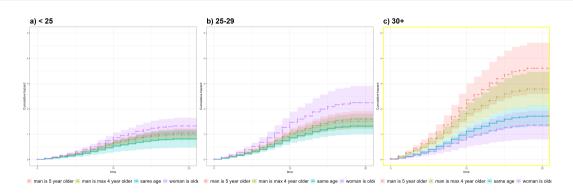


Figure: Cumulative hazards of first births, Men in Western Europe



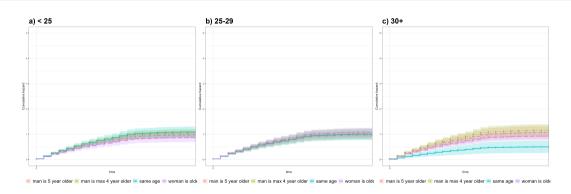


Figure: Cumulative hazards of first births, Men in Central and Eastern Europe



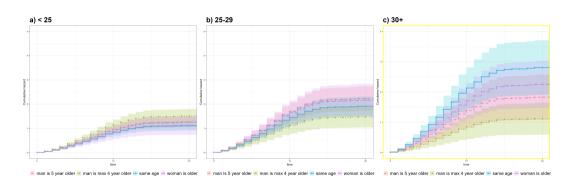


Figure: Cumulative hazards of first birth, Women in Northern Europe



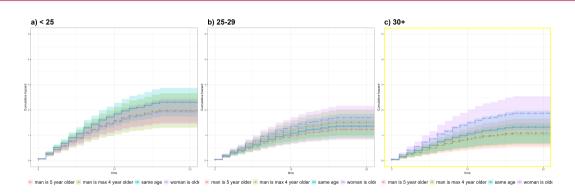


Figure: Cumulative hazards of first births, Women in Latin America



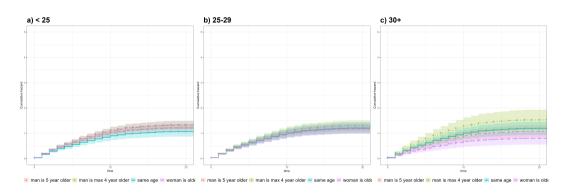


Figure: Cumulative hazards of first births, Women in Central and Eastern Europe



► There is a weak relationship between the partner age difference and first births in Central and Eastern European countries

In the other regions:

- ▶ Men who first partner before age 30 are more likely to become fathers with an older woman. From age 30, they are more likely to become parents with younger partners
- ► Women who partner late are more likely to become mothers with a partner their age or younger in Nordic and Latin American countries



Thanks!







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Distribution of age-categories at union formation (1)

	Norther	n Europe	Western Europe		CEE		Latin America	
<25	1,405	49.1	1,158	43.0	2,758	48.5	229	39.4
25-29	982	34.3	1,026	38.1	2,052	36.1	210	36.1
30+	476	16.6	510	18.9	881	15.5	142	24.4

Table: Distribution of age categories at union formation by region - Men



Distribution of age-categories at union formation (1)

	Norther	n Europe	Westerr	Vestern Europe		CEE		America
<25	2,552	67.6	2,508	62.8	5,647	71.7	599	57.3
25-29	860	22.8	1,090	27.3	1,656	21.0	286	27.3
30+	362	9.6	395	9.9	574	7.3	161	15.4

Table: Distribution of age categories at union formation by region - Women





	Northern Europe		Westerr	n Europe	CE	E	Latin America	
	n	р	n	р	n	р	n	р
Man is min 5 year	408	14.3	433	16.1	1,306	22.9	128	22.0
Man is max 4 year	870	30.4	914	33.9	1,933	34.0	188	32.4
Same age	1,231	43.0	1,047	38.9	1,901	33.4	185	31.8
Woman is older	354	12.4	300	11.1	551	9.7	80	13.8

Table: Distribution of age-difference categories by region - Men



Distribution of age-difference categories (2)

	Norther	n Europe	Westeri	n Europe	CEE		Latin America	
	n	р	n	р	n	р	n	р
Man is min 5 year older	798	21.1	1,061	26.6	2,024	25.7	289	27.6
Man is max 4 year older	1,232	32.6	1,327	33.2	2,720	34.5	299	28.6
Same age	1,444	38.3	1,294	32.4	2,468	31.3	304	29.1
Woman is older	300	8.0	311	7.8	665	8.4	154	14.7

Table: Distribution of age-difference categories by region - Women



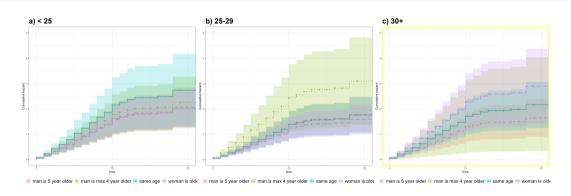


Figure: Cumulative hazards of first births, men in Latin America



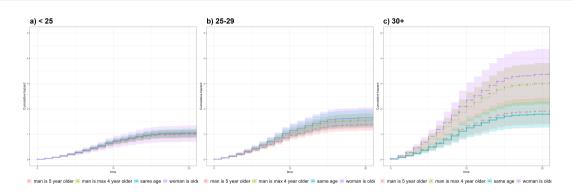


Figure: Cumulative hazards of first births, women in Western Europe