

Driven by institutions, shaped by culture: human capital and the secularization of marriage in Italy

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Secularization: historical process through which religion loses social and cultural significance.

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- iii) what is the role of institutional reform?
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We look at

- a specific dimension of secularization (% of civil marriages), in a country of late secularization (Italy);
- human capital and secularization as equilibrium outcomes;
- focus on economic incentives, and remain agnostic about “direct effects” of education on religiosity.

Related literature

Empirics:

- higher income or education brings about secularization: Paldam and Gundlach (2013), Hungerman (2014), Arias-Vazquez (2015), Becker et al. (2017);
- religiosity increases with income or education: Brown and Taylor (2007), Glaeser and Sacerdote (2008), Buser (2015);
- no clear, or two-way causality: Sander (2002), Lipford and Tollison (2003), Franck and Iannaccone (2014).

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Theory:

- unified growth theory, with secularization both cause and consequence of economic development: Strulik (2016a);
- secularization driven by cognitive style: Strulik (2016b).

What we do

In this paper,

- ① we use Census data on ≈ 8000 Italian municipalities, and
 - find a robust, positive correlation between human capital and civil marriages,
 - show that it depends on socio-geographic characteristics and changes after the *legalization of divorce* in 1970;
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 - obtain results that are fully consistent with the macro evidence;
- ➌ we provide a rationale for these results: a model with endogenous choice of religiosity, education and marriage-type.

Implications of our analysis

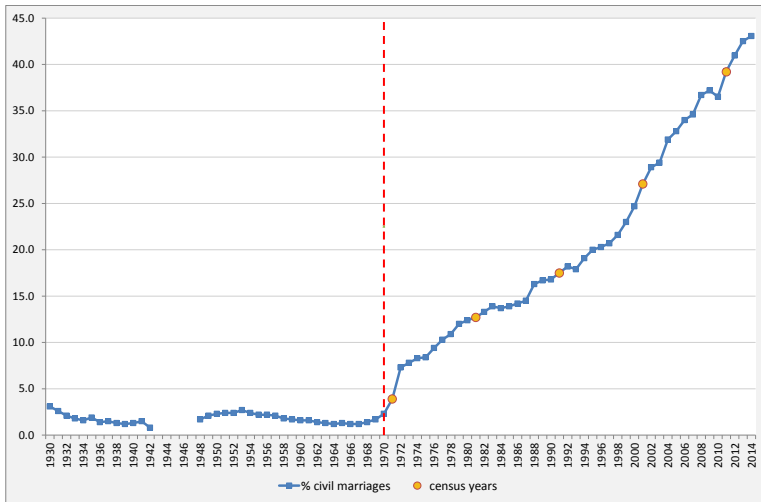
Through our study, we suggest that

- the forces of secularization are driven by economic incentives, but need institutional reform to be fully unleashed;
- deep-rooted cultural factors may explain why socio-economic processes follow diverging patterns (across regions, etc.);
- divorce may (also) have a growth-enhancing effect.

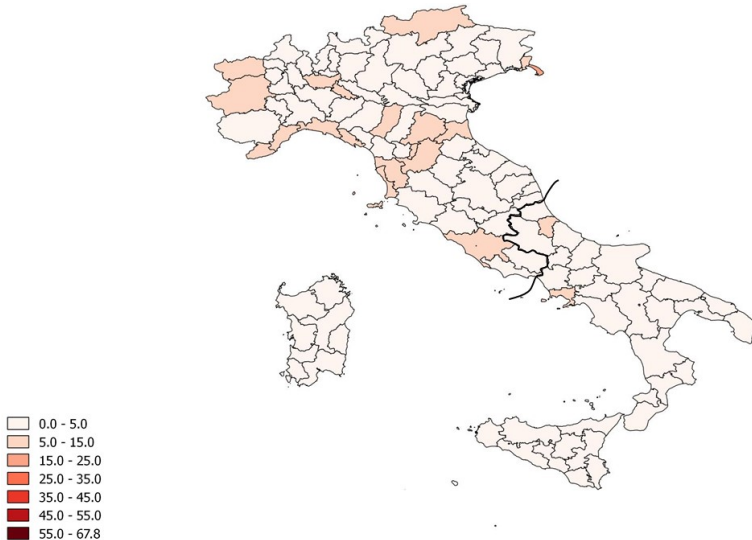
Marriage and divorce in Italy: institutional timeline

- 1929** The Lateran Treaty grants civil effects to church marriages;
- 1954-58** failed attempts to introduce a divorce law;
- 1969-70** the Fortuna-Baslini law 898 legalizes divorce (after 5 years of separation);
- 1974** a referendum promoted to repeal the law is defeated (by margin of 59.26 % to 40.74%);
- 1984** the revision of the Lateran Treaty fully confirms concordatarian marriage;
- 1987** the separation requirement is reduced (\rightarrow 3 years);
- 2015** further legal easing of divorce (\rightarrow 1 year or 6 months if consensual).

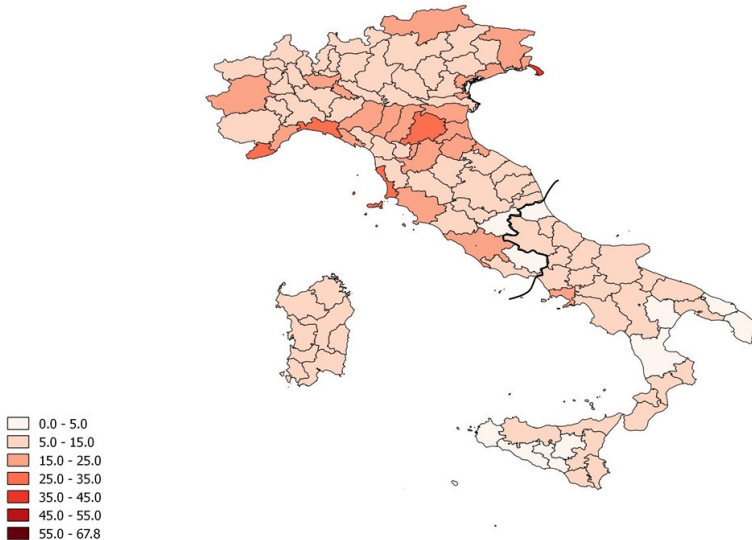
Time evolution: % civil marriages, Italy (1930-2014)



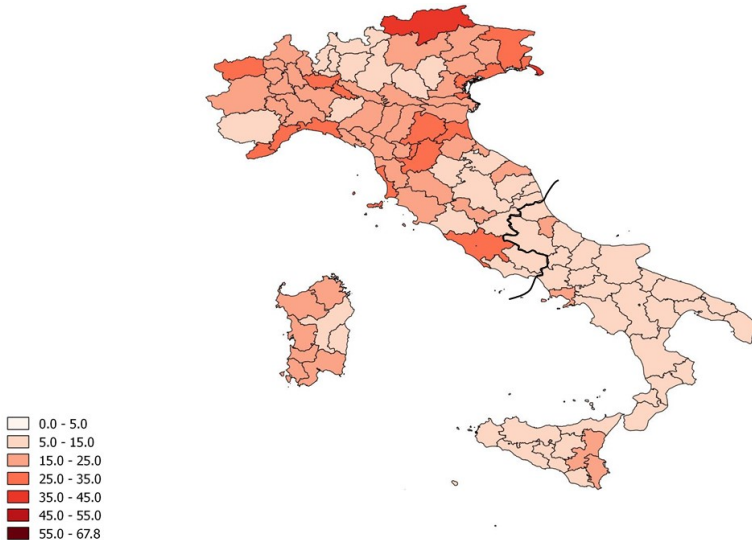
Time evolution: % civil marriages by province (1971)



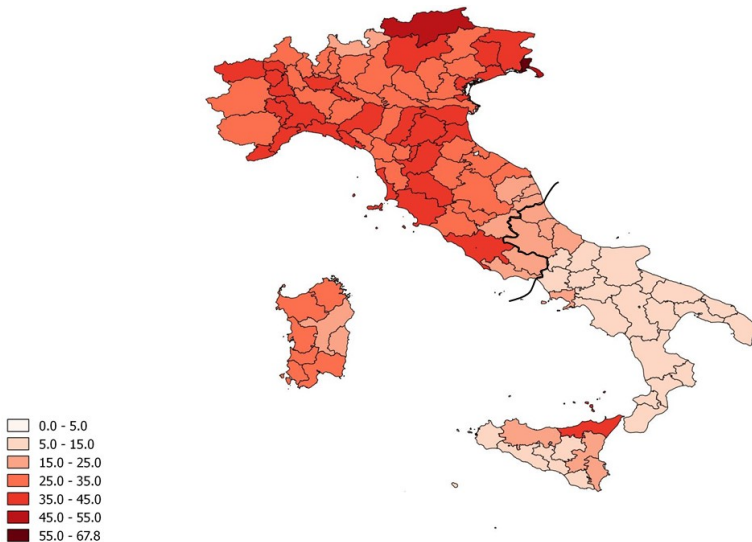
Time evolution: % civil marriages by province (1981)



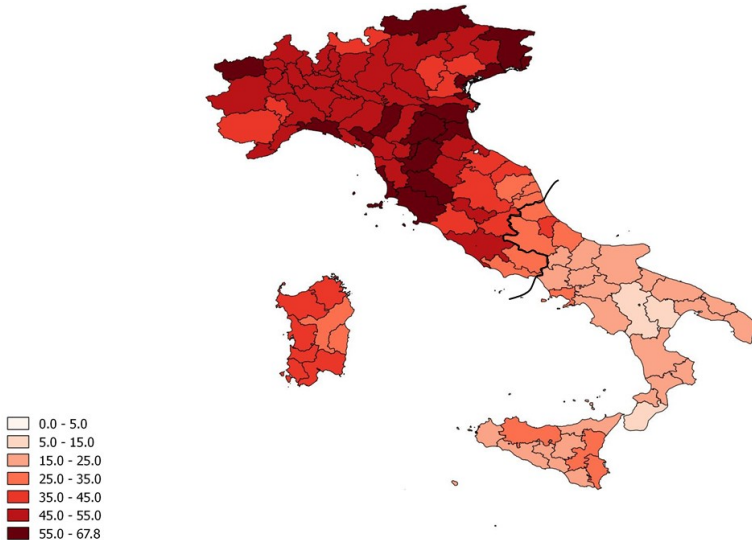
Time evolution: % civil marriages by province (1991)



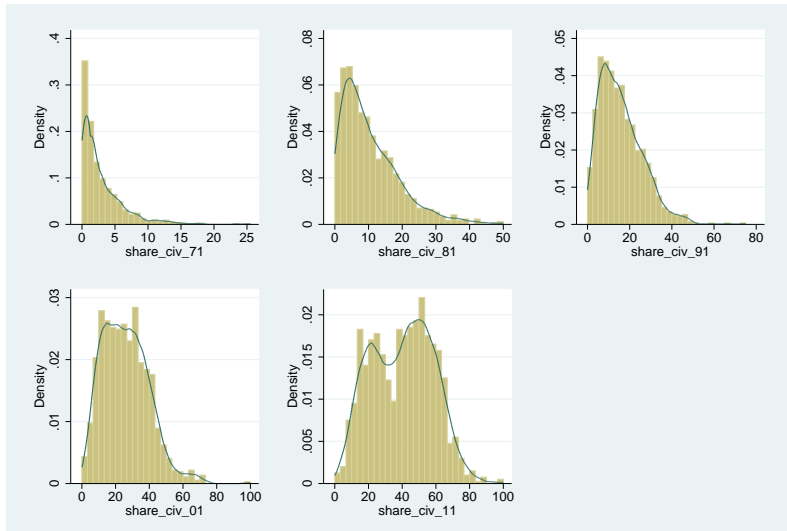
Time evolution: % civil marriages by province (2001)



Time evolution: % civil marriages by province (2011)



Divergence? (municipalities with $\text{pop} > 5000$)



Macro evidence on civil marriages: data description

We use Census data, available for

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% of civil marriages celebrated in municipality i in year t .

Main regressor:

human capital / education, as measured by the *% of population with secondary education or more, in municipality i in year t .*

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We only consider municipalities with population > 5000 in 1971.

Benchmark regressions

<i>Dependent: % civil</i>	(1)	(2)	(3)	(4)	(5)	(6)
Higher education	0.691*** (0.036)	0.704*** (0.048)	0.396*** (0.052)	0.474*** (0.051)	0.347*** (0.056)	0.440*** (0.056)
Pop (ln)			2.709** (1.341)	2.281* (1.313)	3.155** (1.406)	2.545* (1.477)
Age			-0.137 (0.136)	-0.215 (0.132)	-0.139 (0.140)	-0.308** (0.149)
Accommodation overcrowding			0.701*** (0.036)	0.225*** (0.038)	0.732*** (0.038)	0.654*** (0.038)
Higher education × South				-0.484*** (0.025)		
High. ed. × NGOs' empl. pc (1981)					9.470** (3.956)	
High. ed. × consanguinity (1930 – 1934, province level)						-0.044*** (0.009)
Year dummies	✓	✓	✓	✓	✓	✓
Municipality FE		✓	✓	✓	✓	✓
Observations	7,842	7,842	7,842	7,842	7,320	6,818
R-squared	0.496	0.654	0.679	0.705	0.690	0.679
Nb of munic.'s	1,965	1,965	1,965	1,965	1,834	1,708

Robust standard errors clustered at the municipality level in parentheses; ***: $p < 0.01$, **: $p < 0.05$, *: $p < 0.1$.

Does divorce matter? (before/after)

<i>Dependent:</i>	(1)	(2)	(3)	(4)
<i>% civil</i>	1971	1981-91-01	1971-81-91-01	
Higher education	0.199*** (0.035)	0.443*** (0.042)	-0.056 (0.048)	0.126 (0.097)
Higher education × After			0.554*** (0.043)	0.218*** (0.063)
Controls (pop, age, y)	✓	✓	✓	✓
Year dummies		✓	✓	✓
Municipality FE				✓
Observations	1,965	5,877	7,842	7,842
R-squared	0.142	0.411	0.529	0.679
Nb of munic.'s	1,965	1,964	1,965	1,965

Robust standard errors clustered at the municipality level in parentheses;

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Micro evidence on civil marriages: data description

We rely on the 1998 round of the FSS survey by ISTAT.

The FSS contains information on

- a sample of more than 50000 individuals (from ≈ 24000 families),
- marriages before and after the legalization of divorce,
- a wide range of socio-cultural factors, at the individual level.

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- marriages before and after the legalization of divorce,
- a wide range of socio-cultural factors, at the individual level.

Dependent variable:

1 if the respondent i chose a *civil marriage* in year t , 0 otherwise.

Benchmark regressions

<i>Dependent: civil</i>	(1)	(2)	(3)	(4)	(5)	(6)
Higher education	0.023*** (0.003)	0.012*** (0.004)	0.014*** (0.004)	0.020*** (0.005)	0.019*** (0.004)	0.020*** (0.005)
Number of TVs			-0.011*** (0.002)	-0.011*** (0.002)	-0.010*** (0.002)	-0.011*** (0.002)
Higher education x South				-0.013* (0.007)		
Higher ed. x Sun. enl. family					-0.017** (0.007)	
Higher ed. x Sibl. same mun.						-0.015** (0.007)
Region, cohort dum.'s	✓	✓	✓	✓	✓	✓
Age at marriage		✓	✓	✓	✓	✓
Observations	34,973	29,165	29,165	29,165	29,165	29,165
R-squared	0.016	0.048	0.049	0.049	0.051	0.050

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Does divorce matter? (before/after)

<i>Dependent: civil marriage</i>	(1)	(2)	(3)	(4)
Higher education	0.001 (0.006)	0.026* (0.014)	0.025*** (0.007)	-0.004 (0.007)
Higher education × After	0.017** (0.007)			0.027*** (0.010)
Higher education × Placebo after		-0.022 (0.016)	-0.013 (0.009)	
Region dummies	✓	✓	✓	✓
Cohort dummies	✓	✓	✓	✓
Age at marriage FE	✓	✓	✓	✓
Proxy for income	✓	✓	✓	✓
Sample (marriage year)	1926 – 1998	1951 – 1970	1972 – 1991	1962 – 1981
Observations	29,165	9,159	14,402	13,244
R-squared	0.049	0.023	0.057	0.035

Robust standard errors clustered at the municipality level in parentheses; ***: $p < 0.01$, **: $p < 0.05$, *: $p < 0.1$.

Empirical findings: summary

Both at the macro and the micro level,

- we find a robust, positive correlation between human capital and civil marriage;
- this correlation is stronger
 - i) in Northern and Central municipalities,
 - ii) if social capital is stronger and/or family ties are weaker,
 - iii) after the introduction of divorce;
- income turns out to be negatively correlated with civil marriage.

The model

Agents live for 3 periods. They are rational, forward-looking and heterogeneous w.r.t. religious inclination: $\varphi_i \sim f(\varphi_i)$, with $\varphi_i > 0$.

Timing:

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- ① agents allocate time between leisure l_i , education e_i and religious practice r_i ;
- ② acquire human capital $h(e_i)$, decide between religious and civil marriage (no singles), and consume,
 - religious marriage costs time (z), brings more utility to religious people, does not allow for divorce (\neq civil marriage),
 - marriage quality is always good ($m = g > 0$);

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 - religious marriage costs time (z), brings more utility to religious people, does not allow for divorce (\neq civil marriage),
 - marriage quality is always good ($m = g > 0$);
- ③ observe marriage quality (good or bad), decide about divorce/remarriage, and consume;
 - if quality is bad ($m = 0$, with prob.= p), they can remarry after divorce (at a cost k), but not in the church.

Marriage choices

Alternative marriage “profiles”:

- $j = RR, CC, RC$, if divorce is legal;
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- remain open to the option of divorce/remarriage in period 3.

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If agents choose RC , they

- marry in the church in period 2, but
- remain open to the option of divorce/remarriage in period 3.

Note also that

- i) the CR alternative is ruled out by assumption:
a civil marriage in period 2 cannot become religious in period 3;
- ii) we establish conditions on the parameters so as to avoid time-inconsistent behavior.

Optimization

Agent i chooses r_i^j and e_i^j so as to maximize

$$U_i^j = \sum_{t=1}^3 \beta^{t-1} u_{i,t}^j, \quad (1)$$

where

$$u_{i,t}^j = \begin{cases} p_i^j + \varphi_i \ln r_i^j & \text{if } t = 1, \\ m_t + \eta_t^j r_i^j + \ln c_{i,t} & \text{if } t = 2, 3, \end{cases} \quad (2)$$

subject to

$$1 = p_i^j + r_i^j + e_i^j, \quad (3)$$

$$h_i^j = h(e_i^j) \equiv e_i^j. \quad (4)$$

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She will then select the best marriage profile.

Note that

$$m_2 = g,$$

$$m_3 = \begin{cases} g & \text{with prob} = p, \\ 0 & \text{with prob} = 1 - p; \end{cases}$$

$$\eta_2^j = \begin{cases} 0 & \text{if } j = CC, \\ \eta > 0 & \text{if } j = RR, RC; \end{cases}$$

$$\eta_3^j = \begin{cases} 0 & \text{if } j = CC, RC, \\ \eta > 0 & \text{if } j = RR; \end{cases}$$

$$c_{2,i} = \begin{cases} h_i^j & \text{if } j = CC, \\ (1 - z)h_i^j & \text{if } j = RR, RC, \end{cases}$$

$$c_{3,i} = \begin{cases} h_i^j - k & \text{if } m_3 = 0 \text{ and } j = CC, RC, \\ h_i^j & \text{if } m_3 = g, \text{ or if } m_3 = 0 \text{ and } j = RR. \end{cases}$$

Utility functions

$$u_i^{RR} = I_i^{RR} + \varphi_i \ln r_i^{RR} + \beta \left(g + \eta r_i^{RR} + \ln((1-z)h(e_i^{RR})) \right) + \\ + \beta^2 \left((1-p)g + \eta r_i^{RR} + \ln h(e_i^{RR}) \right),$$

$$u_i^{CC} = I_i^{CC} + \varphi_i \ln r_i^{CC} + \beta \left(g + \ln h(e_i^{CC}) \right) + \\ + \beta^2 \left(g + p \ln(h(e_i^{CC}) - k) + (1-p) \ln h(e_i^{CC}) \right),$$

$$u_i^{RC} = I_i^{RC} + \varphi_i \ln r_i^{RC} + \beta \left(g + \eta r_i^{RC} + \ln((1-z)h(e_i^{RC})) \right) + \\ + \beta^2 \left(g + p \ln(h(e_i^{RC}) - k) + (1-p) \ln h(e_i^{RC}) \right).$$

About the model

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- agents are all women (or men) and their prospective marriage spouses are all alike, or
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The cost of divorce $k \in (0, \infty)$ can be interpreted as an indirect measure of socio-cultural factors.

For simplicity, we abstract from the (possible) good cost of religious marriages – which would generate the negative correlation between income and civil marriages found in the data.

Optimal choices

Optimal choices are specific to marriage profiles:

$$\begin{cases} r_i^{RR} = \frac{\varphi_i}{1 - \beta(1 + \beta)\eta} \\ e_i^{RR} = \beta(1 + \beta) \end{cases}, \quad (5)$$

$$\begin{cases} r_i^{CC} = \varphi_i \\ e_i^{CC} = \frac{\omega}{2} \end{cases}, \quad (6)$$

$$\begin{cases} r_i^{RC} = \frac{\varphi_i}{1 - \beta(1 + (1 - p)\beta)\eta} \\ e_i^{RC} = \frac{\omega}{2} \end{cases}, \quad (7)$$

where

$$\omega \equiv k + \beta(1 + \beta) + \sqrt{k^2 + \beta^2(1 + \beta)^2 + 2k\beta(1 - \beta - 2\beta(1 + (1 - p)))}.$$

Optimal choices

Marriage-related economic incentives are key determinants of both education and religiosity.

In particular,

- $\frac{\partial r_i^j}{\partial \varphi_i} > 0, \forall j = CC, RC, RR$
(religious practice increases with religious inclination),
- $r_i^{CC} < r_i^{RC} < r_i^{RR}$;
- $\frac{\partial e_i^j}{\partial \varphi_i} = 0, \forall j = CC, RC, RR$
(education does not depend directly on individual attitudes towards religion),
- $e_i^{RC} = e_i^{CC} > e_i^{RR}$
(education is lower if divorce is not an option).

Choosing a marriage profile

Individual i selects her preferred marriage profile by comparing the indirect utility functions $V^{RR}(\varphi_i)$, $V^{CC}(\varphi_i)$ and $V^{RC}(\varphi_i)$.

Lemma 1

There exist unique $\bar{\varphi}$, $\hat{\varphi}$ and $\tilde{\varphi}$ such that $V^{CC}(\bar{\varphi}_i) = V^{RC}(\bar{\varphi}_i)$, $V^{RC}(\hat{\varphi}_i) = V^{RR}(\hat{\varphi}_i)$ and $V^{CC}(\tilde{\varphi}_i) = V^{RR}(\tilde{\varphi}_i)$.

There also exists $\check{z} \in (0, 1)$ such that:

- (a) if $z < \check{z}$, we have $\bar{\varphi} < \tilde{\varphi} < \hat{\varphi}$, so that individuals characterized by $\varphi_i \leq \bar{\varphi}$ choose the CC regime, those with $\bar{\varphi} < \varphi_i \leq \hat{\varphi}$ choose RC, while those with $\varphi_i > \hat{\varphi}$ select RR;*
- (b) if $z \geq \check{z}$, we have $\hat{\varphi} \leq \tilde{\varphi} \leq \bar{\varphi}$, so that agents choose the CC regime if $\varphi_i \leq \tilde{\varphi}$, and the RR regime otherwise.*

Choosing a marriage profile

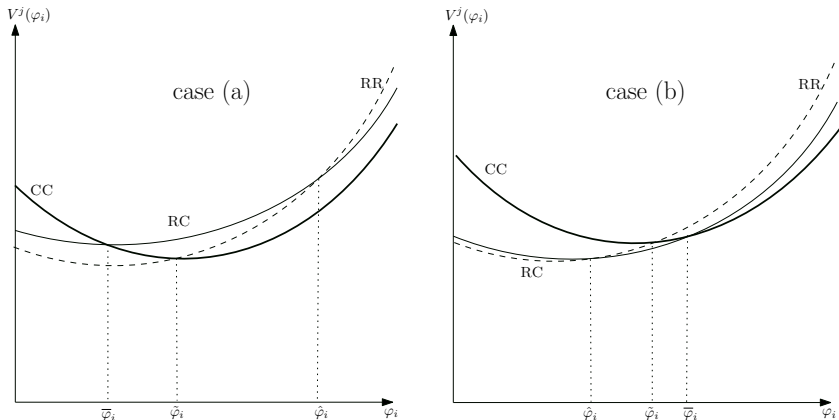


Figure : Indirect utility functions in the two cases of Lemma 1

Choosing a marriage profile

The choice of the marriage profile crucially depends on k and z (socio-cultural factors).

Proposition 1

The threshold $\bar{\varphi}$ is increasing in z , but is independent of k .

The thresholds $\hat{\varphi}$ and $\tilde{\varphi}$ are both decreasing in k .

Moreover, $\tilde{\varphi}$ increases with z , while $\hat{\varphi}$ does not depend on z .

Aggregate outcomes

We consider identical OLGs, rule out inter-generational marriage. Depending on $f(\varphi_i)$, we can compute the share of civil marriages C , average human capital \bar{h} and average religiosity \bar{r} .

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Assuming $f(\varphi_i) > 0$ for all $\varphi_i \in (0, \infty)$, both the proportion of civil marriages and average human capital are increasing in z and decreasing in k . Average religiosity is negatively correlated with the prevalence of civil marriages.

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Furthermore, civil first marriages are more likely to end in divorce than religious marriages (consistent with Impicciatore and Billari, 2012).

The model w/o divorce

If divorce is not allowed ($j = RR, CC$), optimal choices are given by

$$\begin{cases} r_i^{RR} = \frac{\varphi_i}{1 - \beta(1 + \beta)\eta} \\ e_i^{RR} = \beta(1 + \beta) \end{cases}, \quad (8)$$

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Proposition 3

Investment in education is (i) independent of the marriage choice, (ii) lower than in the model with divorce for the CC profile.

Marriage profiles w/o divorce, and institutional change

Lemma 2

There exists a threshold $\tilde{\varphi}$ such that individuals with $\varphi_i \leq \tilde{\varphi}$ choose the CC marriage profile, while those with $\varphi_i > \tilde{\varphi}$ prefer RR.

Marriage profiles w/o divorce, and institutional change

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- the prevalence of civil marriages
 - is higher than without divorce,
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- the prevalence of civil marriages
 - is higher than without divorce,
 - is correlated with human capital,
- human capital increases with (people with low φ_i prefer RC to RR and invest more in education to pay for the eventual divorce cost);
- economies characterized by different parameters (k, z) diverge.

The role of social capital and family ties

Consider the following environment:

- an economy where divorce is legal,
- made of two regions, characterized by different values of k (namely $k^H > k^L$),
- each region contains many municipalities, heterogeneous with respect to the parameter z that follows a common distribution.

The role of social capital and family ties

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- an economy where divorce is legal,
- made of two regions, characterized by different values of k (namely $k^H > k^L$),
- each region contains many municipalities, heterogeneous with respect to the parameter z that follows a common distribution.

In this setting, suppose that for the two regional samples we estimate

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Consistent with our empirical analysis, the estimated coefficient \hat{b} would be increasing in k .

Conclusions

In this paper, we

- study the main correlates of civil marriage in Italy;
- identify some factors that shape the (positive) correlation between human capital and secularization;
- suggest that the introduction of divorce unleashed the forces of (differential) secularization in marriage;
- provide a rationale for these results.