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Research Question

What are the factors that impact the marriage duration of divorced couples in Mexico?

Dataset

Mexican government official dataset on divorces from 01-01-2000 to 31-03-2015 in Xalapa, Veracruz, Mexico.
There are 3,430 observations.

Divorce/marriage Dataset with birthdates

Table 1. Descriptive Statistics

Variable	Obs	Mean	Std. Dev.	Min	Max
husbandage	3412	39.125	9.978	19	78
husband_mincome	3430	10370.876	61301.332	3	3150242
wifeage	3354	36.603	9.569	18	78
wife_mincome	2468	7456.202	17259.506	3.5	708652
marriageduration	3430	11.349	9.026	1	60
children	2171	1.794	.883	1	7
husbandedu	3397	2.281	.963	0	4
divorcetype	3430	.546	.498	0	1
wifeedu	3298	2.309	.937	0	4
custody	1584	.032	.203	0	2

(0) Necessary: disagreement regarding the divorce between the spouses or one of the parties does not accept the divorce
(1) Voluntary: mutual consent or both spouses agree to the divorce
(Immigration and Refugee Board of Canada)

Tentative Plan

$$marriageduration = \beta_0 + \beta_1 husbandage + \beta_2 husbandmincome + \beta_3 wifeage + \beta_4 wifemincome$$
$$+ \beta_5 husbandedu + \beta_6 wifeedu + \beta_7 divorcetype + \beta_8 children + \beta_9 custody + \epsilon$$

- Ordinary Linear Regression (OLS)
- Test for multicollinearity among variables

	(1)	(2)	(3)	(4)	(5)
	marriagedura tion	marriagedurat ion	marriagedurat ion	marriagedurat ion	marriagedurat ion
husbandage	.224***	.226***	.199***	.224***	.251***
	(.028)	(.028)	(.024)	(.028)	(.028)
husband_mincome	0		0	0	0
	(0)		(0)	(0)	(0)
wifeage	.352***	.35***	.378***	.35***	.464***
	(.03)	(.03)	(.026)	(.029)	(.029)
wife_mincome	0	0		0	0
	(0)	(0)		(0)	(0)
children	2.197***	2.196***	1.774***	2.201***	1.753***
	(.185)	(.185)	(.153)	(.185)	(.177)
husbandedu	-.518***	-.516***	-.246*	-.521***	-.439***
	(.165)	(.165)	(.141)	(.165)	(.16)
divorcetype	.114	.111	.233		.902***
	(.26)	(.26)	(.232)		(.252)
wifeedu	-.494***	-.491***	-.521***	-.493***	-.324*
	(.179)	(.179)	(.145)	(.179)	(.173)
custody	.538	.535	.937	.56	
	(.749)	(.749)	(.615)	(.747)	
_cons	-11.117***	-11.133***	-10.96***	-11.029***	-15.866***
	(.761)	(.761)	(.649)	(.734)	(.69)
Observations	1078	1078	1466	1078	1480
R-squared	.603	.603	.589	.603	.681
Adj R^2	.6	.6	.586	.6	.679

Standard errors are in parentheses

*** $p<.01$, ** $p<.05$, * $p<.1$

Graph Matrix

Multicollinearity

Variance inflation factor

	VIF	1/VIF
wifeage	3.18	.314
husbandage	3.118	.321
wifeedu	1.454	.688
husbandedu	1.417	.706
children	1.234	.81
divorcetype	1.041	.961
custody	1.02	.98
husband mincome	1.005	.995
Mean VIF	1.684	.

Homoskedasticity

White's test	df	p
H0: Homoskedasticity		
Ha: Unrestricted heteroskedasticity		
chi2(43) = 133.69		
Prob > chi2 = 0.0000		
Cameron & Trivedi's		
decomposition of IM-test		
chi2		
133.690	43	0.000
30.470	8	0.000
12.730	1	0.000
176.900	52	0.000

Literature Review

- Divorce is legal in Mexico.
    - Unilateral divorce
    - Mutual-agreement divorce
- Previous studies: effect of adopting unilateral divorce provision on the divorce rate in Mexico.
- Quality of marriage
- How certain factors influence the marriage duration of divorced couples

Literature Review

- **Age (Both Wife and Husband)**
  - The rate of divorce declined with the age of marriage in the US.
- **Monthly Income (Both Wife and Husband)**
  - Higher the wife's share in the couple's income → higher the divorce risk
  - Higher combined income of the Household → Lower Risk of Divorce
- **Education Level (Both Wife and Husband)**
  - College Educated women are more likely to have a long lasting relationship compared with that of women who have a high school degree or less.

Literature Review

- **Number of Children**
  - The higher the number of children, the more stable the marriage.
- **Child Custody**
  - Rarely discusses the effect of child custody on the divorce.

Thank you!