'Family Risk Sharing'

'When the Shock Hits the Knot: Individual Consumption Insurance Among Spouses'

'When the Shock Hits the Knot: bargaining and family risk sharing'

B-C-V

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1 Summary statistics and life-cycle behavior

Table 1: Summary statistics

	Household assets (1)	Household earnings (2)	Wife, Private consumption (3)	Husband, Private consumption (4)	Home good expenditure (5)
Mean	4.115	1.742	0.152	0.265	1.501
Gini	0.664	0.450	0.410	0.286	0.230
Top 1% share	0.066	0.044	0.043	0.029	0.023

Notes: assets and earnings are measure across the population regardless of marital status, while other variables are measured among married households.

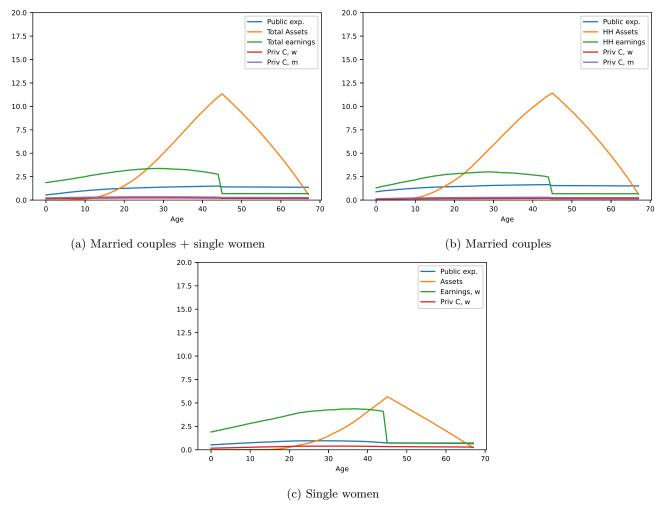


Figure 1: Life-cycle behavior of different types of household, averages

2 Log consumption and income growth

Table 2: Moments of the log growth of the variables reported in the rows

	Mean	Variance	Skeweness	Kurtosis
Wife, private consumption	0.012	0.024	-0.582	84.230
Husband, private consumption	0.012	0.019	-0.765	9.622
Wife share of private consumption	-0.000	0.010	-2.773	804.342
Home good expenditure	0.011	0.009	0.213	10.070
Total consumption	0.012	0.010	0.183	9.622
Wife, earnings	-0.005	0.066	-4.807	40.280
Husband, earnings	0.013	0.025	-0.012	3.354

Notes: sample of those who stay married over two consecutive periods.

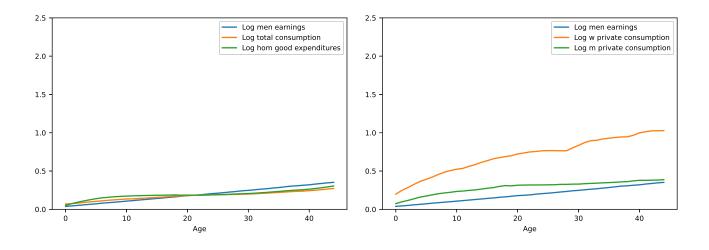


Figure 2: Variance of log earnings and consumption by age

3 Marital surplus, renegotiation and divorce

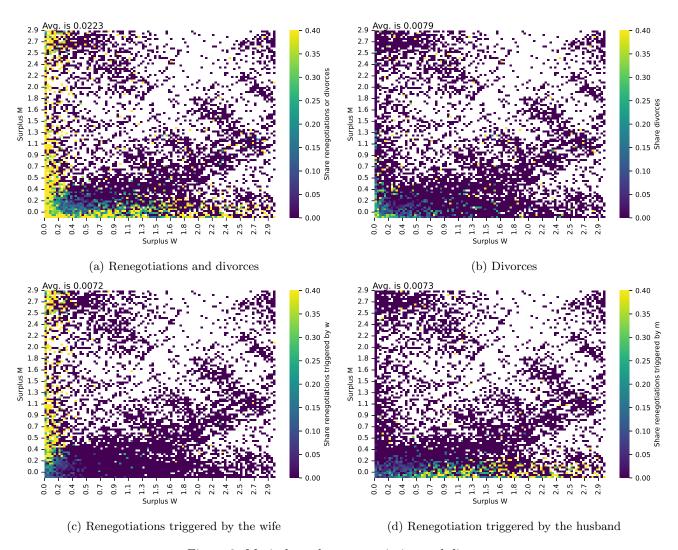


Figure 3: Marital surplus, renegotiation and divorce

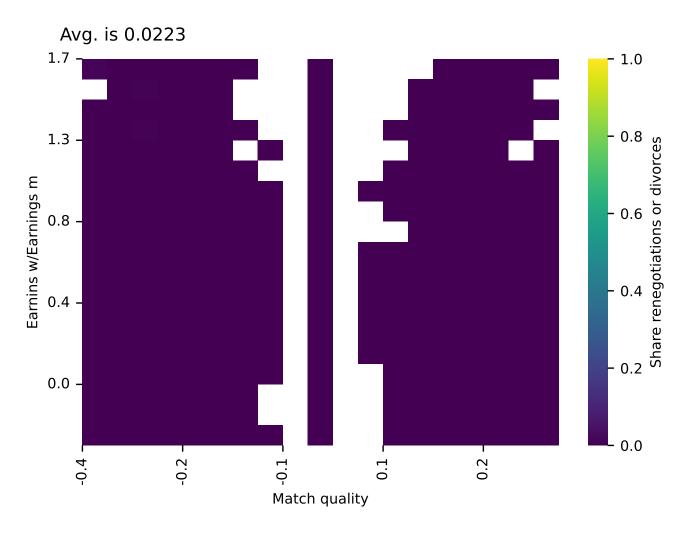


Figure 4: Share or divorces and renegotiations given relative earnings and match quality

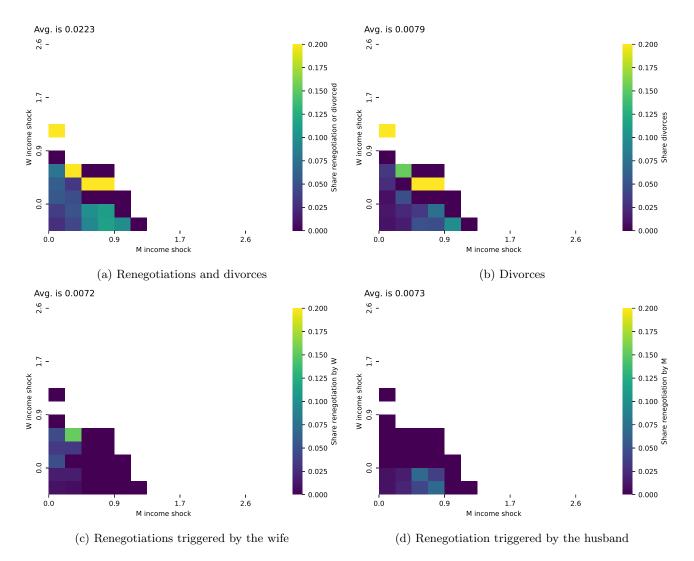


Figure 5: M and W income shocks, renegotiation and divorce

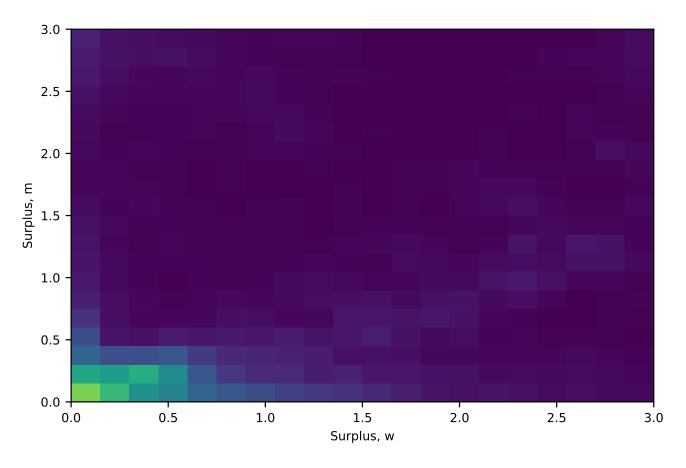


Figure 6: Marital surplus distribution (value of staying married - value of divorce)

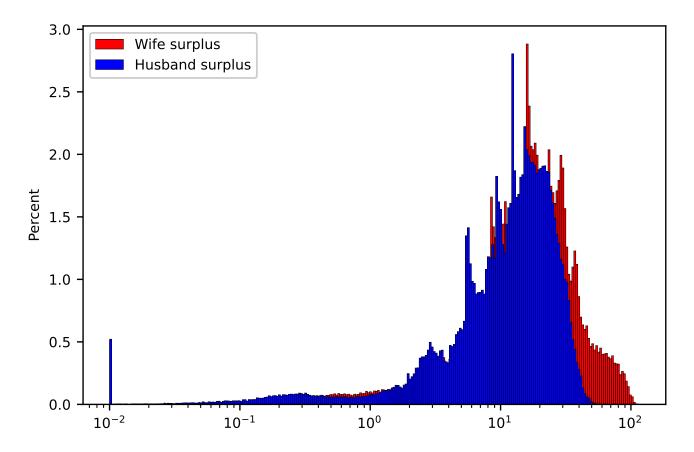


Figure 7: Marital surplus distribution

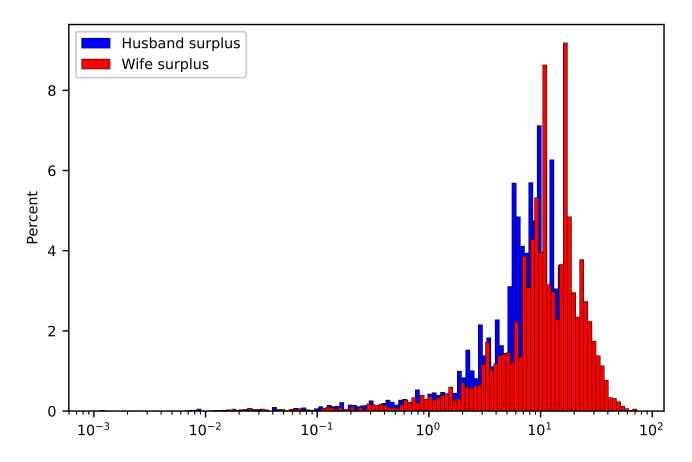


Figure 8: Marital surplus distribution at meeting

Something we have learned

- The match surplus at meeting is higher for women (Figure 8): this is an implication of the (close to) symmetric nash bargaining (SNB) and women earning less than men. SNB allocates a higher share of the surplus to the spouse having lower earnings.
- Women are more likely to hit the participation constraint than men (Figure 7). Since, again, women's marginal utility is higher than for men, the same shock implies a larger change in reservation utilities for women than for men.
- If we impose a non-symmetric nash bargaining, the gender who gets a higher weight will be less likely to hit participation constraints.
- If we close the gender wage gap, the patterns in renegotiation and surplus share distribution become gender symmetric
- To be checked with the policy experiment how labor supply is reacting. If, when outside option for women improve, labor supply goes down, our model cannot replicate it.
- Excess kurtosis of women consumption seems to be driven by renegotiations

4 Consumption insurance regressions

Table 3: Pass-through of changes in income on consumption and consumption shares, using changes in...

	Total Exp (1)	Common Exp (2)	Husband Exp (3)	Wife Exp (4)	Wife share (5)
total income	0.309	0.276			
wife income	0.080	0.077	0.092	0.096	0.004
husband income	0.177	0.172	0.204	0.179	-0.025

NOTES: Coefficient interpretation: 1% change in income leads to X% change in expenditure. Coefficients associated to changes in the wife income are computed using women working in two consecutive periods.

Table 4: Pass-through of changes in income on consumption and consumption shares, using **transitory** changes in...

	Total Exp (1)	Common Exp (2)	Husband Exp (3)	Wife Exp (4)	Wife share (5)
total income	0.131	0.119			
wife income husband income	$0.059 \\ 0.082$	$0.056 \\ 0.080$	$\begin{array}{c} 0.067 \\ 0.095 \end{array}$	$\begin{array}{c} 0.068 \\ 0.082 \end{array}$	$\begin{array}{c} 0.001 \\ -0.013 \end{array}$

NOTES: Coefficient interpretation: 1% change in income leads to X% change in expenditure. Coefficients associated to changes in the wife income are computed using women working in two consecutive periods.

Table 5: Pass-through of changes in income on consumption and consumption shares, using **persistent** changes in

	Total Exp (1)	Common Exp (2)	Husband Exp (3)	Wife Exp (4)	Wife share (5)
total income	0.332	0.314			
wife income	0.356	0.344	0.378	0.492	0.113
husband income	0.283	0.276	0.326	0.288	-0.038

NOTES: Coefficient interpretation: 1% change in income leads to X% change in expenditure. Coefficients associated to changes in the wife income are computed using women working in two consecutive periods.

Table 6: MPC calculated as in BPP, using transitory changes in...

	Total Exp	Common Exp	Husband Exp	Wife Exp
	(1)	(2)	(3)	(4)
husband income	0.090	0.089	0.104	0.080
wife income	0.044	0.042	0.048	0.057
total income	0.267	0.234	0.383	0.410

 Notes : the consumption insurance parameters displayed in the table are computed as

$$\frac{E\left(\Delta c_{t}\Delta y_{t+1}\right)}{E\left(\Delta y_{t}\Delta y_{t+1}\right)},$$

where y_t can the income of the husband, wife or the sum of the two (total). Variables c_t can be the total, common, husband or wife' expenditures. Coefficients associated to changes in the wife income are computed using women working in two consecutive periods.

Table 7: Consumption insurance to persistent income shocks, calculated as in BPP, using persistent changes in...

	Total Exp (1)	Common Exp (2)	Husband Exp (3)	Wife Exp (4)
husband income	0.409	0.395	0.483	0.419
wife income total income	$0.580 \\ 0.442$	$0.556 \\ 0.407$	$0.663 \\ 0.562$	$0.692 \\ 0.609$

Notes: the consumption insurance parameters displayed in the table are computed as

$$\frac{E\left(\Delta c_t \left(\Delta y_{t-1} + \Delta y_t + \Delta y_t\right)\right)}{E\left(\Delta y_t \left(\Delta y_{t-1} + \Delta y_t + \Delta y_t\right)\right)},$$

where y_t can the income of the husband, wife or the sum of the two (total). Variables c_t can be the total, common, husband or wife' expenditures. Coefficients associated to changes in the wife income are computed using women working in two consecutive periods.

Table 8: Women's employment response (in percentage points) to different types of income shocks

Transitory shocks		Persistent shocks		Transitory+persistent shocks	
Wife	Husband	Wife	Husband	Wife	Husband
(1)	(2)	(3)	(4)	(5)	(6)
1.031	-0.099	1.092	-0.290	1.047	-0.167

NOTES: the income shocks relate to potential $log\ income\ y$. In the case of women, a positive potential income shocks does not translate in more earnings if the women does not work. The numbers displayed in the table are OLS coefficients:

$$\frac{E(\Delta y_t \ \Delta W L P_t)}{E(\Delta y_t)},$$

where ΔWLP is the change in women's employment over two consecutive periods.

Table 9: Pass-through of changes in income on consumption and consumption shares, using changes in...

	Total Exp (1)	Common Exp (2)	Husband Exp (3)	Wife Exp (4)	Wife share (5)
total income	0.173	0.116			
wife income	0.171	0.113	0.035	0.023	0.013
husband income	0.152	0.117	$\boldsymbol{0.025}$	0.011	-0.016

Notes: Coefficient interpretation: 1 yen change in income leads to X yen change in expenditure.