

Is Our Fiscal System Discouraging Marriage? A New Look at the Marriage Tax

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Abstract: We develop, apply, and test a new measure of the marriage tax: the reduction in future spending from getting married. Our measure is a comprehensive, actuarial (expected) present value. It incorporates all major and most minor US tax and benefit programs, weighing the present value of additional net taxes from marrying along each marital survivor path by the path's probability. And it assumes clone marriage—marrying oneself—to ensure the living-standard loss from marrying is unaffected by spousal choice. We calculate our marriage tax for young respondents using the Survey of Consumer Finances (SCF). The marriage tax rate—the percentage reduction in expected future spending from marrying—averages 2.69 percent. This sample-weighted average is comparable to losing several years of earnings and is much higher in some states than others. Average marriage tax rates are also highly income dependent. Nationwide, the average marriage penalty imposed on people with low incomes is roughly twice that levied on the rich. Low-income females with children face particularly stiff marrying penalties, primarily in the form of lost benefits, both in-cash or in-kind. The variation in marriage taxation is particularly striking and ranges, across our sample, from negative 74.4 percent to positive 45.8 percent. We use the American Community Survey to study the impact of our marriage tax (imputed via a SCF statistical match) on marrying rates. Our tax on remaining lifetime spending matters—a lot. This is particularly true for low-income, single females with children. Absent the tax, 13.7 percent more would marry each year. Cumulatively, 7.5 percent more would be married at age 35. These are much larger effects than arise using the conventional marriage-tax measure. Our findings are robust to adjusting for partial benefit take-up and respondents marrying higher- or lower-income versions of themselves. Given the importance of marriage to child development and a host of economic indicators, heavily penalizing marriage might have far-reaching, deleterious consequences.

JEL classification: H2, H31, J12, J18

Key words: marriage taxation, disincentives, marriage, social safety net, income tax

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1 Introduction

Marriage, at least in the U.S., matters. It stabilizes relationships (Lundberg et al. 2016; Waite 1995), improves children’s outcomes (Amato 2005; DeLeire and Lopoo 2010; McLanahan and Sawhill 2015), and facilitates spousal human-capital development (Matouschek and Rasul 2008). It also protects marital investments through the provision of alimony. The many social, economic, health, and other advantages to marriage underlie longstanding concern with marriage taxation, specifically in the role it plays in the discouragement, postponement, and shortening of marriage.¹

Marriage taxes are often discussed with reference to federal income-tax brackets, specifically whether increasing a household’s income due to marriage places it in a higher tax bracket. But there are other features of the fiscal system that can generate marriage penalties. The plethora of federal and state benefit programs typically condition both eligibility and benefit levels on family, not individual income. That can further increase rates of marriage taxation for low-income individuals.

This paper broadens the definition of the marriage tax to not only include these income tax penalties and transfer claw-backs associated with marriage but also expands it to include the impact of these marriage penalties on remaining lifetime net taxes and, thus, remaining lifetime spending. Marriage is a long-term commitment and considering only short-term net taxation can readily misstate the penalty. Social Security and Medicare are important cases in point. Sole focus on current-year taxes and benefits ignores the fact that, in paying FICA taxes, married couples can receive significant future Social Security and Medicare spousal and widow(er) benefits.

We define the marriage tax rate as the percentage reduction in the expected present value of remaining lifetime spending (henceforth, lifetime spending) arising from marrying an individual identical to oneself. The term “expected” references forming an actuarial

¹For example, see Alm and Whittington (1995), Whittington and Alm (1997), Dickert-Conlin and Houser (1998), Dickert-Conlin (1999), Alm and Whittington (1999), Gibson-Davis et al. (2005), Wilcox et al. (2016), and others.

average across all future survivor paths.² Positing a *clone marriage* lets us hold all else equal in calculating marriage taxes. In particular, it ensures that our measure reflects how the structure of the fiscal system penalizes marriage independent of the endogenous decision of whom to marry. This said, we do consider whether uniform differences in partners' earnings affect our results. Thus, we also calculate marriage tax rates assuming respondents marry replicants of themselves who earn either 50 percent more or 50 percent less.

The marriage tax rate is calculated using the 2016 Survey of Consumer Finances (SCF). We begin by *singleizing* each married or partnered SCF respondent age 20-49.³ This involves pseudo-divorcing married and partnered couples, allocating half of all assets to each spouse. Children are assumed to live with their mothers or the primary respondent in the case of same-sex couples. Next, The Fiscal Analyzer (TFA) introduced in [Auerbach et al. \(2016, 2017\)](#) and [Altig et al. \(2020a,b\)](#) is utilized to determine how each single or singleized SCF respondent's remaining lifetime spending would change were the respondent to marry themselves. TFA is a life-cycle, consumption-smoothing research tool that calculates lifetime spending for single individuals and married or partnered couples. The tool incorporates all major federal and states taxes and benefit programs. It smooths consumption subject to cash-flow constraints and considers all survival paths single individuals or married couples might experience.

The respondents' states of residence, income, and family compositions can materially influence their marriage taxes. This variation is used to estimate the impact of marriage taxation on the probability of marrying and to assess whether marriage is differentially responsive to gross marriage taxes and transfer claw-backs.

Table 1 lists federal and state fiscal programs included in TFA and, thus, our marriage-

²The lifetime spending measure abstracts from economies of shared living to ensure our tax measure captures simply the net fiscal cost of marriage independent of any gains from cohabitation. We also abstract from divorce, assuming it is not anticipated at the time of marriage. This may overstate the size of the perceived tax, but it won't necessarily alter the estimated impact of marriage taxation. In other words, the estimated coefficient of the marrying rate on marriage taxation will compensate for systematic underestimation of the tax.

³This age range spans the bulk of family formation. See [Alm and Whittington \(1995\)](#); [Moffitt \(1994\)](#).

tax measure. Marriage neutrality implies that the per-person tax or benefit will not be altered by exact clone marriage. The table indicates that thirteen of the twenty tax/benefit programs are not marriage neutral. See Appendix A for program-specific details.

Table 1: Taxes and Benefits Included in Marriage Tax Calculation

	Rules Level	Marriage Neutral
Taxes and Tax Credits		
Personal Income Tax	Federal, State	No
Earned Income Tax Credit (EITC)	Federal, State	No
Child Tax Credit (CTC)	Federal, State	No*
Federal Insurance Contributions Act (FICA) Tax	Federal	Yes
Corporate Income Tax	Federal, State	Yes
Estate and Gift Tax	Federal, State	Yes
Property Tax	State	Yes
Sales Tax	State	Yes
Excise Tax	Federal	Yes
Benefit Programs		
Social Security Benefits	Federal	No
Social Security Disability Insurance (SSDI)	Federal	No
Supplemental Security Income (SSI)	Federal	No
Medicaid/Children’s Health Insurance Program (CHIP)	Federal, State	No
Medicare Part B Premiums	Federal	No
Medicare Benefits	Federal	Yes
Marketplace Subsidies	State	No**
Supplemental Nutritional Assistance Program (SNAP)	State	No
Temporary Assistance for Needy Families (TANF)	State	No
Section 8 Housing Vouchers	State, County	No
Child Care and Development Fund (CCDF) Subsidies	State, County	No

*Marriage neutral if both parties have the same earnings

**Marriage subsidization can arise if the combined income of a couple is higher than the minimum-income eligibility threshold

Source: Federal Reserve Bank of Atlanta Policy Rules Database ([Ilin and Terry 2021](#))

1.1 Preview of Findings

On average, we calculate a 2.69 percent lifetime marriage tax. There is a substantial variation by income, with households in the lowest quintile of the income distribution face an average marriage tax of 3.71 percent — more than two times larger than the 1.49 percent average

rate faced by the top-income quintile. Average marriage tax rates also vary substantially across states – ranging from 1.53 percent in New Mexico to 3.99 percent in Hawaii. These state differences are due to a range of state-specific tax and benefit provisions, most notably differences in Medicaid eligibility. Across our sample of 4,396 SCF respondents age 20-49, the minimum marriage tax rate is -74.45 percent, driven primarily by the fact that marriage can provide access to the ACA premium subsidy in states that did not expand Medicaid. The maximum rate is 45.84 percent, driven, in the main, by the loss of Medicaid and housing subsidies.

Across all respondents, the presence of children does little to alter the marriage tax rate, as the tax subsidies offset the transfer claw-back. The gross tax rate is -0.50 percent for those with children and 0.33 percent for those without children. The transfer claw-back rate is 3.18 percent for those with children and 2.36 percent for those without. For example, in the case of single women in the bottom income quintile, the presence of children does not alter the average marriage tax. The presence of children increases the average transfer claw-back rate from 4.40 percent to 5.13 percent, but decreases the average gross tax rate from -0.68 to -1.42 percent, keeping the overall average marriage tax rate unchanged at 3.71 percent.

We exploit state, demographic, and income variation in the marriage tax rate when examining the impact of marriage taxation on the probability of marrying. Using data from the 2018 American Community Survey (ACS), we find a statistically and economically significant negative impact of the marriage tax on the likelihood of marriage. Take, for example, 20- to 49-year-old females with children in the 2018 ACS who were unmarried in 2017. A one percentage point increase in the marriage tax rate decreases the probability of marrying in 2018 by 3.69 percentage points. These findings are robust across multiple specifications, including adjusting the marriage tax for the partial take-up of benefits and defining the marriage tax rate based on marrying higher-earning and lower-earning clone replicants.

Our simulations show that absent marriage taxation, females and males with children

and incomes in the bottom quintile would have, on average, 13.68 and 1.46 percentage point higher marrying rates, respectively. For those without children, eliminating marriage taxation would increase their propensity to marry by only 4.70 for low-income females but by 5.10 percentage points for males. The tax-induced reduction in the annual marrying rate has implications for the stock of marriage. For 25-year-old, low-income females with children, the marriage tax reduces their chances of being married ten years later by 7.52 percentage points.

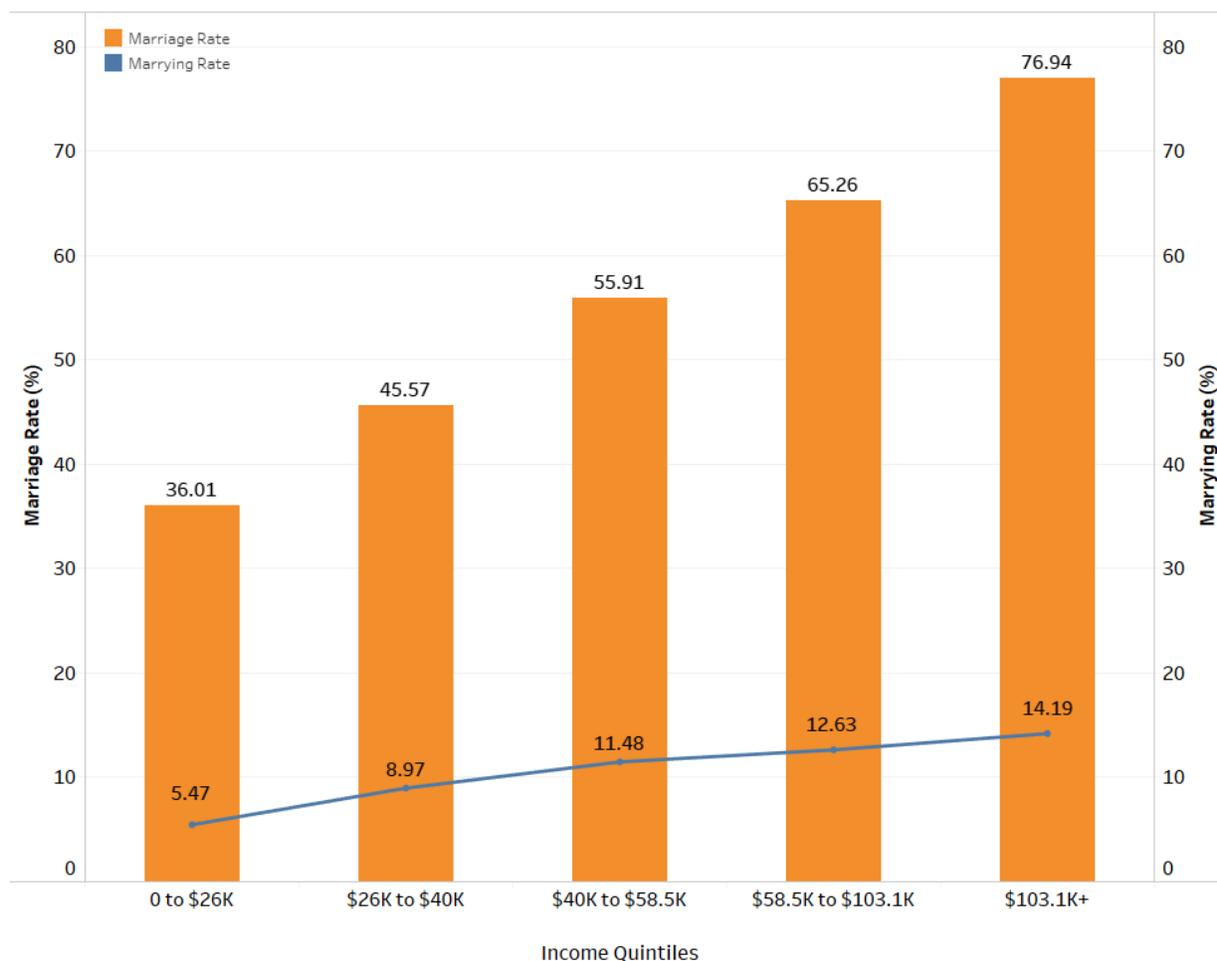
2 Background

Figure 1 charts, by personal income quintiles, the share of married ACS respondents (the marriage rate) as well as the fraction of respondents who reported marrying in the prior year (the marrying rate). For both measures, there is a gap between high- and low-income groups as the rate of marrying increases with income. Over time, this difference in marrying leads to significant gaps in the stock of marriage. For example, only 5.47 percent of those who were single and had annual incomes below \$26,000 in 2017 married in 2018, compared to 14.19 percent with annual incomes above \$103,100. The marriage rate shows similar differences. Only 36.01 percent of individuals with annual incomes below \$26,000 are married, while the marriage rate for those with annual incomes above \$103,100 is more than double, at 76.94 percent.

These statistics are troubling given that marriage is correlated with economic well-being. [Waite \(1995\)](#), using Health and Retirement Study (HRS) data, shows that married couples' average per capita wealth is more than twice that of the never married. [Zissimopoulos et al. \(2015\)](#) also uses HRS data and finds that married men have higher lifetime earnings than unmarried men – \$840,000 and \$600,000 respectively.

This higher economic well-being of married individuals reflects many factors. Marriage offers a way for couples to share the costs of investments in public goods, from air conditioners

Figure 1: Marriage and Marrying Rates by Income. Age 20-49.



Note: The marriage rate is the married share of the population. The marrying rate is the share of the population that married in the prior year.

Source: U.S. Census Bureau, 2018 American Community Survey 1-Year Estimates

to children. Marriage also acts as a commitment mechanism that promotes cooperation among spouses and increases marriage-specific investments (Matouschek and Rasul 2008; Lundberg and Pollak 2015). In addition, compared to cohabitants, those who marry have healthier behaviors, better career outcomes, and lower mortality. The reasons for these better outcomes are social, arising from the support of family and friends, religious, publicly demonstrated via a religious ceremony, and legal, due to child support requirements and alimony agreements or, in rare cases, court-ordered judgments (Waite 1995).

Children also benefit materially from having married parents. They are more likely

to succeed in school, be gainfully employed, and achieve upward economic mobility. [Amato \(2005\)](#) and [McLanahan and Sawhill \(2015\)](#) find parents' investment in their children is higher among married couples relative to cohabitating couples, which positively affects the children's cognitive and social-emotional development and their life chances. [Lerman et al. \(2017\)](#) analyze data from the National Longitudinal Survey of Youth and find that relative to adult children who lived with both parents at age 14, adult children who lived with a single parent at age 14 have completed 0.36 fewer years of school, are 3.9 percentage points less likely to be working full-time, have 12 percent lower personal income, and 21 percent lower family income. However, [Lang and Zagorsky \(2001\)](#) show that some of these adverse outcomes might be caused by other social and economic circumstances correlated with having a single parent. Using parental death as an exogenous cause of absence, they find that the death of a mother negatively affects cognitive performance of a daughter and the death of a father decreases a son's chance of marriage.

The impact of the marriage tax on marriage status has been explored in several ways. [Whittington and Alm \(1997\)](#)'s use of the Panel Study of Income Dynamics (PSID) to estimate the impact of the individual income tax on the probability of divorce. They found that income-tax incentives matter to divorce decisions, although the impact is small – the elasticity of the divorce rate with respect to the marriage tax penalty is only 0.005. [Alm and Whittington \(1999\)](#) estimate a discrete-time hazard model of the time to first marriage and find that an increase in total per capita income taxes paid by married versus single women has a negative effect on the likelihood of marriage – a one thousand dollar increase in the marriage-tax penalty decreases the female probability of marriage by 0.7 percentage points. [Alm and Whittington \(2003\)](#) study the decision to marry rather than cohabit. They find that, for those already living together as a cohabiting couple, the decision to transition from cohabitation to marriage is significantly affected by the tax consequences, with a 10 percent decline in the marriage tax increasing the probability of marriage by 0.7 percent. However, they find a small impact of the marriage tax on the initial transition to marriage; the same

ten percent reduction in the marginal tax increases the probability of marriage in the initial decision by only 0.3 percent. [Chade and Ventura \(2002\)](#) analyze the effects of the marriage tax on family formation, divorce, and labor supply. They develop a marriage-market model with search frictions and heterogeneous agents that quantifies the effects of several tax reforms aimed at making the tax system marriage neutral. They find that these reforms increase the labor supply of married females but have ambiguous effects on the fraction of married people.

[Dickert-Conlin and Houser \(1998\)](#) find that the transfer system typically has large marriage disincentives, while the income-tax system is likely to subsidize marriage for many low-income families. They calculate marriage penalties associated with Aid to Families with Dependent Children (AFDC), food stamps, SSI, and state and federal income taxes, including the Earned Income Tax Credit (EITC), and find a statistically significant correlation between financial incentives and separation decisions. Using a sample of married women from the 1990 Survey of Income and Plan Participation (SIPP), [Dickert-Conlin \(1999\)](#) estimates the marriage tax from the federal income taxes. She finds that couples with more to gain from separating are more likely to do so, conditional on other characteristics. [Wilcox et al. \(2016\)](#) look at couples whose oldest child is two years or younger and find that 82 percent of those in the second and third quintiles of family income face marriage penalties arising from Medicaid, cash assistance, and SNAP. They find that these couples are two to four percentage points less likely to be married if they face a marriage penalty in these programs.

Our study contributes to this literature in four ways. First, since marriage is a long-term decision, we capture the remaining lifetime marriage tax, not just current-year impact. Second, as indicated, we consider the full range of tax and transfer programs in calculating marriage tax rates. Third, our analysis includes recent changes to the welfare and tax systems. The levels and distribution of marriage taxes may differ markedly now relative to the past due to the adoption of the 2017 Tax Cuts and Jobs Acts (TCJA), the expansion of

SNAP’s Broad-Based Categorical Eligibility (BBCE), the introduction of the Health Insurance Marketplace subsidies, the expansion of Medicaid under the ACA, and the introduction of the progressive Medicare premium formula (IRMMA). Finally, this study examines the probability of unmarried individuals entering into marriage, rather than studying the dissolution of marriage, which is done in many prior studies. By limiting the analysis to individuals not currently married, the bias associated with labor supply decisions taking into account the marriage tax is diminished.

3 Methodology⁴

3.1 Intertemporal Budget Balance and Definitions

Consider any realized survival path, i , which is the path for which an individual lives to a specific age with a certain probability. Along this path, the realized present value of a household’s total remaining lifetime spending (including bequests), S_i , must equal the realized present value of the household’s lifetime net resources along the same path. Thus, path-specific intertemporal budgets satisfy

$$S_i = R_i - T_i, \tag{1}$$

where R_i and T_i reference, respectively, the realized present values on path i of the household’s remaining lifetime resources and net taxes (including estate taxes). The realized present value of remaining lifetime resources, R_i , is the sum of the household’s current net wealth, W , and path i ’s realized present value of future labor earnings (realized human wealth), H_i . Thus,

$$R_i = W + H_i. \tag{2}$$

⁴The description of The Fiscal Analyzer in this section draws heavily or verbatim from [Auerbach et al. \(2016, 2017\)](#) and [Altig et al. \(2020a,b\)](#), which pre-dates this paper and uses an identical method.

Lifetime spending, S , human wealth, H , the expected present value of remaining lifetime resources (henceforth, lifetime resources), R , and lifetime net taxes, T , satisfy

$$S = \sum_i p_i S_i, \quad (3)$$

$$H = \sum_i p_i H_i, \quad (4)$$

$$T = \sum_i p_i T_i, \quad (5)$$

and

$$R = \sum_i p_i R_i, \quad (6)$$

where p_i is the probability the household experiences survival path i . The above equations imply:

$$R = W + H, \quad (7)$$

$$S = R - T. \quad (8)$$

Expected lifetime net taxes, T , can be decomposed into lifetime total taxes, Z , minus lifetime transfers, B .

$$T = Z - B. \quad (9)$$

Marriage can increase a couple's total tax liability and decrease their total transfer payments relative to their combined pre-marriage total amounts. We define the remaining lifetime net marriage tax rate, τ , as the marriage-induced percentage change in lifetime net resources or, equivalently, lifetime spending due to the marriage-induced change in lifetime net taxes. We further decompose τ into the lifetime gross tax rate, θ , plus the lifetime transfer claw-back rate, ϕ . Thus,

$$\tau = \frac{\Delta Z - \Delta B}{S} \quad (10)$$

$$\theta = \frac{\Delta Z}{S} \quad (11)$$

$$\phi = \frac{-\Delta B}{S} \tag{12}$$

3.2 The Fiscal Analyzer

The Fiscal Analyzer (TFA), introduced in [Auerbach et al. \(2016, 2017\)](#) and [Altig et al. \(2020a,b\)](#), calculates lifetime net resources, lifetime taxes, and lifetime transfers.⁵ TFA uses an iterative, dynamic programming method to calculate each household’s smoothest living standard path, subject to borrowing constraints, assuming the household head and spouse/partner live to their maximum potential ages.

In forming this maximal-longevity (base) path of discretionary spending, TFA takes into account the household’s current and future labor earnings, regular and retirement accounts, year-specific demographics, year-specific non-discretionary expenditures on housing, child-care, healthcare, and other off-the-top expenses, and year-specific net taxes (annual taxes paid less annual transfers received). Calculations for all other survivor paths are made as part of TFA’s computation of life insurance needs. The program determines annual, non-negative term life insurance amounts for household heads and their spouse/partners. These amounts provide survivors (including children) sufficient resources to achieve precisely the same annual living standard as would arise had no one died.⁶ In the course of determining age-specific insurance needs, TFA also calculates survivor-path-specific taxes and transfers. All living standard paths, not just the maximum-longevity survival path, are calculated assuming non-negative cash-flow (borrowing) constraints.

The program’s iteration resolves the simultaneity between the household’s paths of spending, taxes, and transfers. To understand this simultaneity, note that the household’s asset income in each year impacts its various tax payments and transfer-payment receipts in that

⁵TFA’s development has been supported by the National Institute of Aging, Boston University, the Sloan Foundation, the Goodman Institute, the Federal Reserve Bank of Atlanta, and other non-profit entities, as well as Economic Security Planning, Inc. The program’s underlying calculation engine is MaxiFi.com, a personal financial planning software program developed by Laurence Kotlikoff through Economic Security Planning, Inc.

⁶When TFA’s recommended life insurance is zero, reflecting the program’s assumption of no marginal annuity purchases, survivors experience higher living standards.

year. But the path of taxable asset income depends on the spending path, which depends on the path of taxes and transfers. Hence, the spending path depends on the tax/transfer path and vice versa. Clearly, the paths of net taxes and spending must be simultaneously determined. A similar chicken and egg problem arises in calculating year-specific life insurance needs. The amount of life insurance needed in a given year depends on the future living standard path that must be insured; i.e., it depends on the base spending path. But the associated insurance premiums limit what can be spent. Hence, the base spending path depends on the base life-insurance premium path. But the base path of life insurance premiums depend on the base path of spending.

TFA is comprised of three dynamic programs that jointly iterate to solve these simultaneity problems for the maximum-longevity case. The first program smooths consumption — maintaining a constant living standard per effective household adult (with adjustments for economies of shared living and the relative cost of children) through time subject to borrowing constraints. The second computes the path of taxes and benefits. The third calculates the path of life insurance needs. Each program takes the outputs of the other two as inputs.

3.3 TFA’s Algorithm

TFA’s base program smooths consumption utilizing the following dynamic program. Total discretionary expenditures of the household in period t , e_t , satisfies

$$e_t = c_t(N_t + \lambda K_t)^\gamma \tag{13}$$

where c_t is consumption per equivalent adult, N_t is the number of adults in the household, K_t is the number of children, and λ is the weight given to the children in the household, assumed to equal 0.7. The parameter γ governs “economies of joint living”. Since the goal is to isolate the marriage tax from other potential costs and benefits of marriage, we set γ the economies of joint living to one, thus ignoring potential savings due to cohabitation. We assume that

all non-disabled children leave the household when they reach age 19. Disabled children are assumed to remain in the household through the year of death of the last remaining spouse/parent.

The dynamic program starts from the final year, F (set to 100), in which a household head or spouse/partner could be alive. In the final year, the household consumes all resources:

$$e_F = x_F,$$

where x references the household's cash on hand in the final year, F . Cash on hand includes regular (non-retirement account assets), labor income, asset income, withdrawals from retirement accounts, plus all other income less all fixed expenses on housing, other off-the-top expenditures, such as alimony and child support payments, specified bequests, and funeral expenses, as well as net tax payments. In-kind benefit payments are incorporated after the fact when determining the lifetime marriage tax rate τ . Home equity is treated as trapped and not spent in year F . But the present, actuarial value of bequests, whether specified or not, including trapped equity, is included in our measure of lifetime spending.

For periods $t < F$,

$$c_{t+1} = \begin{cases} \phi(x_{t+1}), & \text{if } e_t < x_t \\ x_t & \text{otherwise} \end{cases} \quad (14)$$

where ϕ is a consumption function and

$$x_{t+1} = x_t - e_t \quad (15)$$

TFA's second dynamic program also involves a recursion, which relates the life insurance needs at time t of a spouse in a given year of potential widow(er)hood – to maintain their living standard and that of the children through their maximum age of life – to the needs at time $t + 1$ as well as cash flows at time t .

TFA’s third dynamic program calculates the value of all taxes and transfers for all programs listed in table 1. TFA determines eligibility in each year for each transfer program and computes the estimated value of that benefit. Each dynamic program takes the outputs of the other programs as inputs. The algorithm iterates between the three programs until convergence, at which point TFA multiplies survivor-path-specific results by the survivor path’s probability and calculates expected present values.⁷

3.4 The 2016 Survey of Consumer Finances and the Calculation of Clone-Marriage Tax Rates

The SCF is a cross-sectional survey of U.S. families conducted every three years. The SCF includes detailed information on household labor and asset income, assets and liabilities, and demographic characteristics. Appendix A, table 1 provides summary statistics for the SCF respondents in our artificially “singleized” data set.

Next, we project the lifetime earnings of the single and “singleized” respondents and run the projected earnings through TFA to calculate expected lifetime taxes and lifetime spending. This step is then repeated, but under assumption that each respondent marries their clone, but without doubling the number of children. These projections are used to calculate the net marriage tax rate, the gross tax rate, and the transfer claw-back rate. A more detailed description of this process is available in Appendix B.

A key concern with the SCF is the lack of state identifiers as well as state-specific weights in the SCF public-use file. The Federal Reserve proprietary-use file, to which we have access, does have state identifiers. But the file’s weights are national, not state-specific. To deal with this state-weight problem, we statistically matched each SCF household to ACS households

⁷The algorithm is highly efficient. Indeed, its solution take less than a second notwithstanding what can be a hundreds of iterations through the three programs. The secret to the program’s speed and accuracy is its use of adaptive grid shrinking in successive iterations. Since the problem TFA solves is deterministic, the paths of the program’s three state variables – regular assets and the retirement accounts of the respondent and spouse/partner – as well as all other endogenous variables, e.g., annual net taxes, converge across iterations to their final trajectories.

based on common characteristics. This matching allows us to infer the share of each SCF household type located in each state and, thus, to allocate each household’s SCF weight across the 50 states and the District of Columbia. The three state-specific marriage tax rates are estimated for each respondent in each state, regardless of state of residence, first as single and then as clone married. These state-specific tax rates are weighted by the ACS state-specific weights to produce national state-weighted average values of the tax rates for each respondent.

4 The Size and Distribution of Marriage Taxes

The distribution of marriage tax rates, gross tax rates, and transfer claw-back rates by SCF respondents’ annual total family income are shown in figure 2. Given that each SCF respondent has a marriage tax rate calculated for all 50 states and D.C., each dot represents an average marriage tax across all states. The charts show that low-income households face the highest marriage penalties due to the loss of substantial benefits from getting married.

Table 2 shows average marriage penalties for the full SCF sample and separately for families with and without children. The overall average marriage tax rate is just under 2.7 percent and differs little for families with children. However, the composition of penalties is different. On average, individuals with children face higher transfer claw-back rates than those without because some benefit programs, such as Medicaid for children and childcare subsidy, are available only for families with children. Moreover, in some states, Medicaid is available only for adults with dependents.⁸ Higher transfer claw-back rates for individuals with children are partially offset by a larger marriage tax subsidy – taxpayers with children are generally eligible for more generous federal and state tax credits, such as the EITC and the CTC.

Table 3 summarizes average marriage penalties by gender and child status. Females have

⁸As of 2019, Medicaid coverage was not available for adults without dependents in the following states: Alabama, Florida, Georgia, Kansas, Mississippi, Missouri, Nebraska, North Carolina, South Carolina, South Dakota, Tennessee, Texas, Utah, and Wyoming.

Figure 2: Distribution of Marriage Tax Rates in 2016 Survey of Consumer Finances



Table 2: Average Lifetime Marriage Penalties in the 2016 SCF

	Marriage Tax	Gross Tax	Transfer Claw-Back Rate
Full Sample	2.69 (4.68)	0.06 (2.54)	2.63 (4.12)
With Children	2.68 (4.78)	-0.50 (2.49)	3.18 (4.23)
Without Children	2.69 (4.63)	0.33 (2.51)	2.36 (4.03)

Standard deviation is reported in parenthesis

Income is defined as individuals current-year earned and unearned income from all sources

both lower incomes and more children, on average, making them eligible for more benefit programs. This results in higher marriage taxes and more to lose from marrying.

Finally, average marriage tax rates by income quintiles are reported in table 4. The rate is highest for individuals with incomes between \$26,000 and \$40,000. On average, they face a 3.95 percent marriage tax rate, more than twice the 1.49 percent rate for the top-income quintile. The bottom-income quintile has the highest claw-back rate. On average, this group

Table 3: Average Lifetime Marriage Penalties in the 2016 SCF by Gender and Child Status

	Female		Male	
	With Children	No Children	With Children	No Children
Marriage Tax	2.71 (1.05)	2.98 (1.08)	2.02 (4.73)	2.59 (1.13)
Gross Tax	-0.49 (0.36)	0.25 (0.58)	-0.64 (0.97)	0.36 (0.42)
Transfer Claw-Back Rate	3.21 (1.04)	2.73 (1.35)	2.67 (5.38)	2.24 (1.15)

Standard deviation is reported in parenthesis

loses 4.65 percent of their lifetime spending power due to loss of benefits, although this loss is partially offset by a one percentage point reduction in their tax liability. The transfer claw-back rate declines monotonically with income, with the top-income quintile facing virtually no transfer claw-back. The gross tax rate is close to zero or negative for all but the top two income quintiles. The top-income quintile loses 1.09 percent of its lifetime spending due to an increase in total tax liabilities.

Table 4: Average Marriage Tax by Income Quintiles

Income Quintile	Lifetime Net Marriage tax	Gross Marriage Tax	Transfer Claw-Back Rate
0 to \$26K	3.71 (6.57)	-0.94 (2.86)	4.65 (5.49)
\$26K to \$40K	3.95 (4.35)	-0.28 (1.43)	4.23 (4.30)
\$40K to \$58.5K	2.99 (4.16)	0.01 (1.54)	2.98 (4.05)
\$58.5K to \$103.1K	1.38 (3.43)	0.41 (2.34)	0.97 (2.10)
\$103.1K+	1.49 (3.57)	1.09 (3.43)	0.40 (1.11)

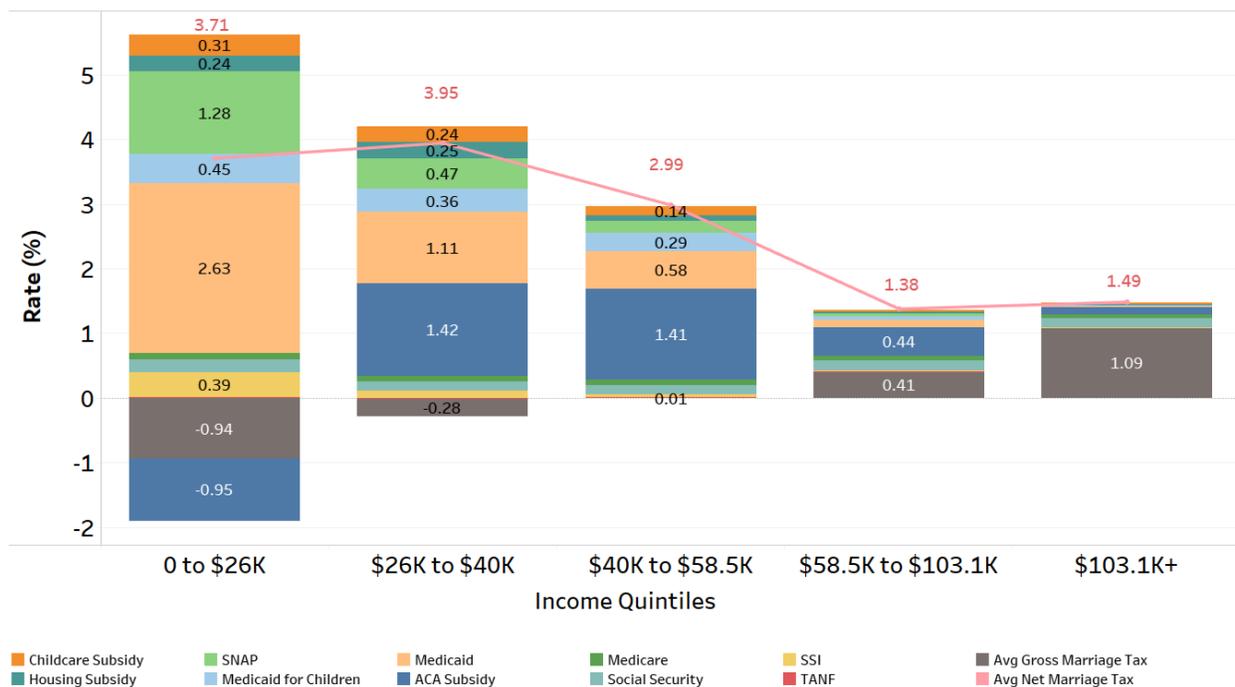
Standard deviation is reported in parenthesis

Income is defined as individuals current-year earned and unearned income from all sources

The source of the transfer claw-back differs by income quintiles. For each income quintile, figure 3 breaks down the average marriage tax rate into ten components, including the change in total tax liability and the change in nine major benefit programs – childcare subsidy,

housing subsidy, SNAP, Medicaid, Medicare, ACA subsidy, Social Security, SSI, and TANF.

Figure 3: Decomposition of Marriage Taxes by Income Quintile



The bottom-income quintile, on average, loses 2.63 percent of their lifetime net resources from the loss of Medicaid for adults, 1.28 percent from the decline in SNAP, and 0.45 percent from the loss of Medicaid for children. However, 0.95 percent of lifetime net resources are gained due to an increase in the ACA premium subsidy. Finally, 0.94 percent is gained in lifetime net resources due to a decrease in taxes.

Those in the second- and third-income quintiles are more likely to lose access to the ACA premium subsidies after marriage. In general, the loss of healthcare-related benefits – Medicaid for adults and children and ACA premium subsidies – is the main contributor to the marriage tax for those in the bottom three income quintiles.

A detailed description of the distribution of marriage tax rates across income quintiles is reported in table 5. There is a sizable variation in the individual marriage tax rate across and within income quintiles. Across the full sample, the lowest marriage tax rate is -74.45 percent and the highest is 45.84 percent. The distribution of marriage tax rates is most

disperse among the lowest-income quintile (with an interquartile range of 5.43 percentage points), with this dispersion declining monotonically with income.

Table 5: Summary Statistics for the Marriage Tax Rates (%)

Income Quintile	min	q10	q25	median	mean	q75	q90	max
All	-74.45	0.00	0.42	1.62	2.69	4.52	8.05	45.84
0 to \$26K	-74.45	-1.32	1.30	4.19	3.71	6.73	9.87	45.84
\$26K to \$40K	-54.05	0.17	0.92	3.30	3.95	6.18	9.52	33.79
\$40K to \$58.5K	-25.52	0.06	0.41	1.48	2.99	4.73	8.84	30.04
\$58.5K to \$103.1K	-34.71	-0.05	0.26	0.80	1.38	1.97	4.19	25.03
\$103.1K+	-23.66	-0.08	0.29	0.98	1.49	2.22	3.77	44.18

Income is defined as individuals current-year earned and unearned income from all sources

There are several explanations for the substantial negative marriage tax rates (i.e., subsidies) in our SCF sample. First, in some states, Medicaid coverage is available only for adults with dependents. Therefore, in our singleized SCF sample, childless clones of adults to whom children were initially assigned can gain eligibility for Medicaid coverage from marriage. Hence, the formerly childless clone finds themselves in a marriage with children, permitting them to qualify for Medicaid in states, like Louisiana, that don't provide Medicaid to childless adults. Second, as was discussed, certain families can gain access to the ACA premium subsidy by marrying and raising their household's income. Finally, certain individuals in the top income quintile have large gross tax subsidies related to the structure of tax brackets and standard deductions.⁹

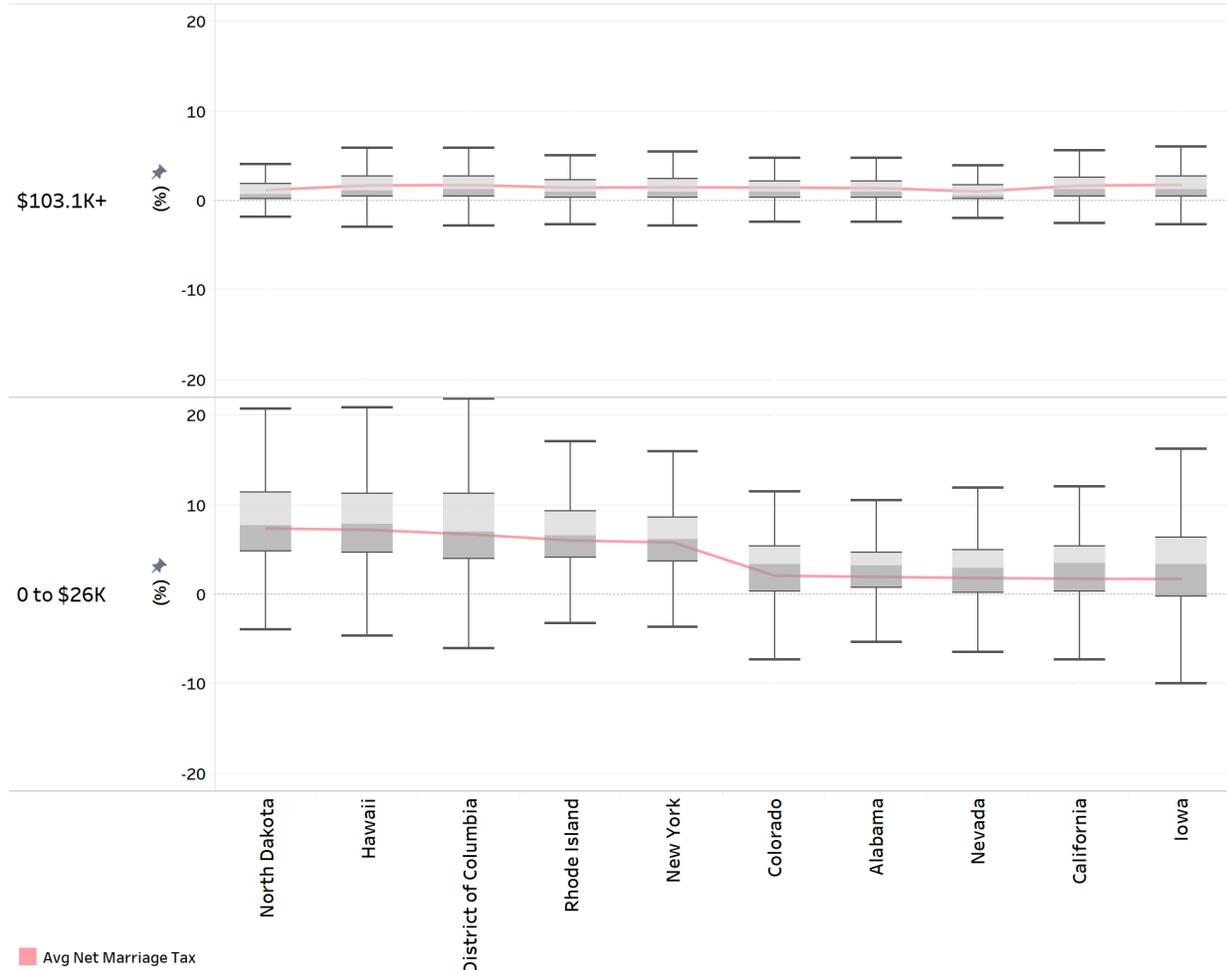
4.1 Variation in the Marriage Tax Across States

As figure 4 makes clear, marriage tax rates as well as the variation in these rates across households vary significantly by state. The figure shows the 10th, 25th, 50th, 75th, and 90th percentiles of marriage tax rates for the top- and the bottom-income quintiles for the five states with the highest and the five with the lowest average marriage tax rate. The solid red

⁹See Appendix D, figures 2-5 for further examples of the distribution of the marriage tax by income quintile.

line shows the average rate. Appendix D, figure 1 details the variation in marriage taxation across all states.

Figure 4: Variation in Marriage Taxes Across States



There are several contributors to this cross-state variation in the marriage tax. First, nine states do not have an income tax, and the forty-two states that do can have very different non-marriage neutral income-tax schedules and tax credits. Second, eligibility requirements for certain benefit programs vary by state. For example, the Section 8 Housing Voucher and CCDF childcare assistance eligibility is determined based on the Area Median Income (AMI) or State Median Income (SMI). In addition, even though the rules for SNAP and Medicaid are determined at the federal level, states can adjust income eligibility limits. For example, SNAP's federal income eligibility threshold is 130 percent of the FPL, but Broad-

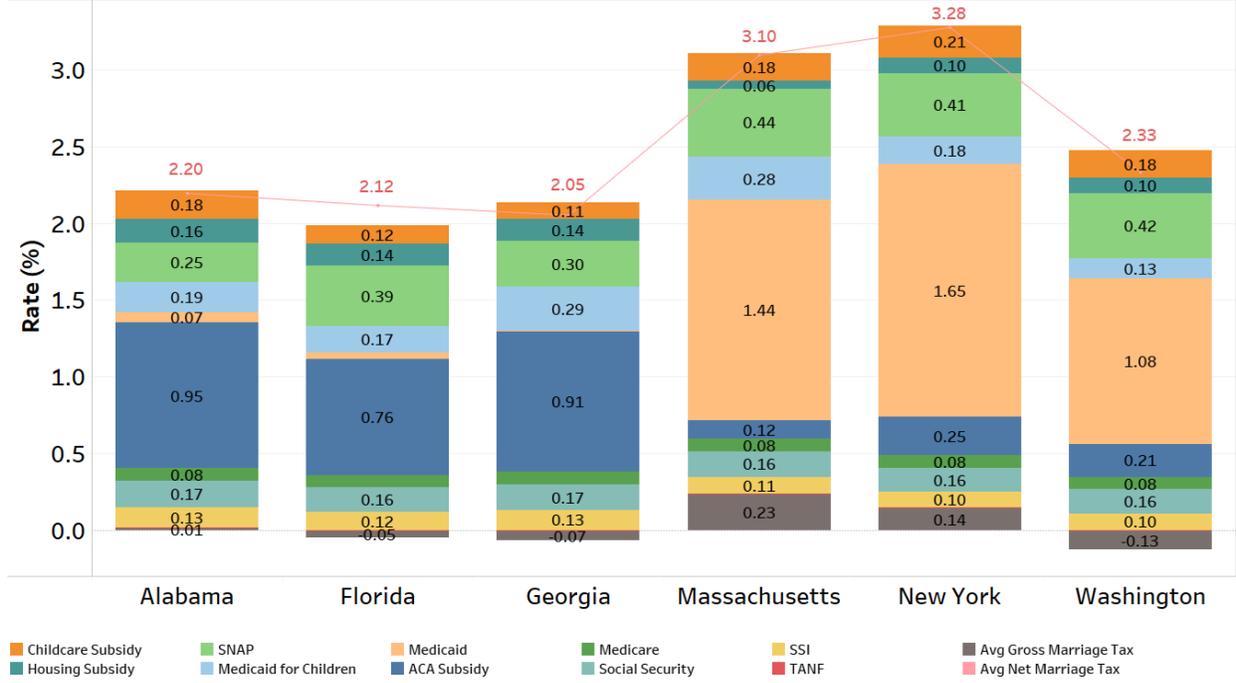
Based Categorical Eligibility (BBCE) allows states to set higher thresholds. Finally, health care benefits also vary by state and, indeed, local area. The Affordable Care Act of 2010 allowed states to expand Medicaid coverage to families with income up to 138 percent of the FPL. But 12 states chose not to do so. The ACA subsidy depends on the cost of silver plans in the recipient’s local area, which results in ACA participants with equal incomes living in different states receiving different subsidies. These differences interact with the many sources of ACA non-marriage neutrality. In addition, the CHIP coverage of uninsured children is a further source of state differences in the marriage tax as each state has its own non marriage-neutral income-eligibility guidelines.

4.2 Medicaid Expansion and Marriage Taxation

The loss of Medicaid is one of the largest drivers of the marriage tax. Figure 5 shows the marriage tax composition for three states that expanded Medicaid in 2014 – Massachusetts, New York, and Washington and three states that did not – Alabama, Florida, and Georgia. In the expansion states, individuals can receive Medicaid coverage if family income is below 138 percent of the FPL. In states that didn’t expand Medicaid coverage, households with children can still receive coverage but only if their income is sufficiently low – typically around 40 percent of FPL.

Medicaid expansion provided healthcare coverage to many uninsured individuals and families. However, it also raised marriage taxes in expansion states by including more Medicaid-covered individuals who could lose coverage by marrying. Although marriage would likely lead to eligibility for ACA premium subsidies, these subsidies are of smaller value than Medicaid. In states that didn’t expand Medicaid, the phase-out of ACA premium subsidies is the most significant healthcare component of the marriage tax. For example, a low-income person in an expansion state can keep Medicaid coverage up to 138 percent of the FPL and then switch to a subsidized, but still more costly ACA marketplace coverage at higher income levels. For this person, the loss of Medicaid is the main source of marriage taxation.

Figure 5: Marriage Tax and Medicaid Expansion.



A similar low-income person in a non-expansion state would not have access to Medicaid but would be eligible for the ACA premium subsidy. If family income increases after marriage, the amount of the subsidy declines.

5 The Effect of Marriage Taxation on Marrying

Our calculated marriage tax rates are interesting on their own. But the practical policy question is whether they influence marriage. Unfortunately, the SCF does not have information on family formation in the prior year. However the 2018 ACS asks respondents about their prior-year marital status and whether they married over the prior year, although the ACS resource data is not sufficiently detailed to accurately estimate marriage taxes. Hence, we apply a two-step estimation procedure. In the first step, we regress the calculated SCF marriage tax rates on observables common to both surveys and use the regression results to predict the three marriage tax rates for ACS respondents. In the second step, the decision to marry is regressed on the first-stage estimates of the marriage tax, controlling for other

individual characteristics. Finally, we apply generated regressor correction by bootstrapping standard errors of the second-stage coefficients.

5.1 Imputing Marriage Tax Rates

As indicated, our measure of the marriage tax captures only the effect of the U.S. fiscal system, not preferences over whom to marry. Thus, the measure varies only by characteristics that directly affect eligibility status for public assistance, the size of benefits, and the size of tax liabilities.¹⁰ Our imputation of ACS marriage tax rates is, therefore, based on regressing SCF marriage tax rates on determinants that are also available in the ACS.

$$\begin{aligned} \tau_{is} = & \beta_{0sg} + \beta_{1sg}F_i(Y_i + Y_i^2) + \beta_{2sg}K_i^{0-12}F_i(Y_i + Y_i^2) \\ & + \beta_{3sg}K_i^{13-18}F_i(Y_i + Y_i^2) + \beta_{4sg}H_iF_i(Y_i + Y_i^2) + \delta_{sg}X_i + \epsilon_i, \end{aligned} \quad (16)$$

where $\tau_{1,s}$ is the marriage tax rate of respondent i in state s , F is family size, K^{0-12} is an indicator for whether the respondent has children under age 12, K^{13-18} is an indicator of whether the respondent has children between age 13 and 18, H references housing status (home owner or renter), Y is total household income from all sources, and X is a vector that includes integer age and level of education. Equation 16 is estimated separately for each state s and gender g .

¹⁰For example, eligibility for and the value of means-tested public assistance is a non-linear function of total family earnings. Income eligibility thresholds for most benefit programs and tax credits are based on the FPL, SMI, or AMI, which vary by family size. Families with children are eligible for additional benefit programs, and if the child is under the age of 12, the family can access subsidized childcare through the CCDF. There is also the possibility of housing support for renters. Age also affects ACA health insurance premiums and, thus, the size of ACA subsidies. Finally, eligibility rules for these programs vary at the state level. In addition to differences in program eligibility, there are also differences in the projections of lifetime earnings by level of education, which has implications for the value of the marriage tax.

5.2 Predicting Marriage Tax Rates Facing Unmarried ACS Respondents

The sample consists of all 2018 ACS respondents aged 20-49 who reported being single in 2017. Appendix table 2 provides our ACS sample’s summary statistics broken down by gender and presence of children.

Table 6: Average Predicted Marriage Penalties in the 2018 ACS by Gender and Child Status

	Female		Male	
	With Children	No Children	With Children	No Children
Marriage Tax Rate	3.35 (1.05)	2.67 (1.08)	2.53 (4.73)	2.34 (1.13)
Gross Tax Rate	-0.75 (0.36)	-0.45 (0.58)	-0.67 (0.97)	-0.17 (0.42)
Transfer Claw-Back Rate	4.10 (1.04)	3.12 (1.35)	3.20 (5.38)	2.51 (1.15)

Standard deviation is reported in parenthesis

Table 6 reports average predicted marriage tax rates, gross tax rates, and transfer claw-back rates for the ACS sample by gender and presence of children. ACS respondents with children face higher marriage tax rates and transfer claw-back rates relative to childless adults. This child-difference is expected as adults with children are eligible for a wider set of benefits – benefits that can be reduced or eliminated via marriage. On the other hand, these respondents face lower gross tax rates. In addition, females face a higher marriage tax rate relative to males, regardless of child status. This is due to the lower relative earnings of females. These average rates differ somewhat from the average rates in the SCF, with generally higher transfer claw-back rates and lower gross tax rates, reflecting the oversampling of higher income households in the SCF.

5.3 Estimating the Effect of Marriage Taxation on the Decision to Marry

Having predicted marriage tax rates for the ACS sample, we estimate the effect of marriage taxation on marrying using a linear probability model.¹¹ Our second-stage regression is given by

$$M_i = \gamma_{0g} + \gamma_1 \hat{\tau}_i + \gamma_{2g} Y_i + \gamma_{3g} Y_i^2 + \gamma_{4g} A_i + \gamma_{5g} A_i^2 + \gamma_{6g} A_i (Y_i + Y_i^2) + \beta_g^T X_i + \mu_s + \epsilon_i, \quad (17)$$

where M_i is the binary outcome of whether individual i married in the 12 months preceding the survey; $\hat{\tau}_i$ is the predicted marriage tax rate, μ_s is the state fixed-effect, Y_i is total individual income from all sources, A_i is age, and X_i is a set of individual-level controls that includes race, education, and number of children. Potential measurement errors in equation 17 are discussed in Appendix C. Equation 17 is estimated separately for males and females, g , using either the net marriage tax rate or its gross tax and transfer claw-back components.

The marriage tax has a statistically significant negative effect on the probability of marrying for both females and males, independent of the presence of children. A one-percentage point increase in the marriage tax rate decreases the probability of marrying for females with children by 3.69 percentage points and 1.12 percentage points for females without children. Given that the mean tax rates for these groups are 3.35 and 2.67, respectively, these are very large effects. For females with children, both components of the marriage tax — the claw-back and the gross tax — have statistically significant negative effects on the proba-

¹¹Alternatively, the second-stage equation 17 can be estimated using Probit. However, as shown in figure 2 and table 5, marriage tax rates tend to be more dispersed for low-income people. For example, for the bottom income quintile, the interquartile range (IQR) of the marriage tax rate distribution is 8.05 percent – more than four times larger than the 1.93 percent IQR of the top income quintile. Thus, the error terms of the first stage regression (equation 16) are larger for observations with low income. This introduces heteroskedasticity in the second stage regression (equation 17). Probit and Logit models would produce biased and inconsistent estimates, while OLS estimates are unbiased and consistent (Yatchew and Griliches 1985; Inkmann 2000; Moussa 2019).

Table 7: Marriage-Probability Impact of 1 Percentage-Point Increases in Marriage Tax Rates and Tax Components

	Female				Male			
	With Children		No Children		With Children		No Children	
Marriage Tax Rate	-3.69*** (0.64)	-	-1.12*** (0.29)	-	-0.21* (0.09)	-	-1.54*** (0.39)	-
Gross Tax Rate	-	-14.86*** (1.51)	-	-6.00*** (1.08)	-	-2.78*** (0.83)	-	2.13* (1.07)
Transfer Claw-Back Rate	-	-2.14** (0.67)	-	0.07 (0.37)	-	-0.63*** (0.18)	-	-2.17*** (0.38)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	73,784	73,784	129,303	129,303	55,126	55,126	169,239	169,239

***, ** and * indicate significance levels at 0.1%, 1% and 5% respectively
Standard errors (in parentheses) are based on 50 bootstrap samples

bility of marrying. A one percentage-point increase in the transfer claw-back and gross tax rates decrease the probability of marrying by 2.14 and 14.86 percentage points, respectively. Clearly, the impact of an increase in the marriage tax delivered via a rise in the gross tax is significantly larger, both statistically and economically, than an equal sized increase in the transfer claw-back rate. This may reflect less transparency among benefit than tax programs.

In the sample of males with and without children, we also find that the marriage tax and its components have a statistically significant negative effect on marrying, with a one percentage point increase in the marriage tax decreasing the probability of marrying for males with children by 0.21 percentage points and by 1.54 percentage points for males without children. In addition, for males with children, the marginal effect is lower than for females. However, for males without children, the marginal effect of transfer claw-backs is larger than for single females.

5.4 Simulating the Elimination of Marriage Taxation

Table 8 shows how the elimination of the marriage tax would impact the decision to marry for different gender, child statuses, and prior-year income levels. In all cases, marrying would

be higher in the absence of the marriage tax, but the differential is largest for women with children, especially those in the lower earnings quintiles. For example, if the marriage tax rate is set to zero for females with children in the bottom income quintile, their average probability of marrying increases by 13.68 percentage points. Stated differently, the fiscal system is keeping almost 14 percent of low-income young females with children from getting married in a given year. For low-income males with children, setting the marriage tax to zero would also have a significant but much smaller positive effect on the decision to marry. It would increase their average probability of marrying by 1.46 percentage points.

As an example of how this negative impact of marriage taxation on *annual* marrying affects the cumulative stock of marriage over time, consider the case of a single 25-years-old female without children who earns \$33,614 and faces a lifetime marriage tax rate of 2.61 percent – the average value among females in our sample. Our estimated probability that she marries over the next ten years is 76.1 percent. In the absence of marriage taxation, this probability would equal 85.6 percent.¹²

5.5 Sensitivity Analysis

5.5.1 Partial Take-up of Benefit Programs

Although TFA contains all eligibility rules for the programs listed in table 1, simply applying those rules to eligible households could overestimate the marriage tax rate. Program participation rates among eligible households are generally less than 100 percent for a variety of reasons, including, but not limited to, lack of information, stigma, complicated application procedures, and benefit rationing in some programs (see [Stuber et al. \(2000\)](#); [Finkelstein and Notowidigdo \(2019\)](#)). This suggests that our baseline calculation provides an upper bound on the potential impact of the marriage tax.

Appendix D, table 3 presents national take-up rates, i.e., the share of eligible families

¹²To produce these estimates, we compute weighted average predicted marrying rates at given initial ages with and without marriage taxation across all states, education groups, races, and age categories. We then account for changes in marrying rates as a respondent moves between age categories.

Table 8: Impact of Marriage Taxation on Marrying

	Marrying Rate (%)	Predicted Marrying Rate without Marriage Tax
Female, with Children		
0 to \$26K	9.40	23.08
\$26K to \$40K	11.82	25.57
\$40K to \$58.5K	16.36	27.70
\$58.5K to \$103.1K, Q4	22.73	30.88
\$103.1K+	26.80	34.74
Female, without Children		
0 to \$26K	6.47	11.17
\$26K to \$40K	9.81	13.79
\$40K to \$58.5K	12.15	15.12
\$58.5K to \$103.1K	13.52	16.07
\$103.1K+	14.28	17.18
Male, with Children		
0 to \$26K	7.49	8.95
\$26K to \$40K	15.24	17.45
\$40K to \$58.5K	23.17	23.31
\$58.5K to \$103.1K	29.92	31.21
\$103.1K+	43.28	47.58
Male, without Children		
0 to \$26K	3.51	8.61
\$26K to \$40K	7.08	11.47
\$40K to \$58.5K	9.88	13.24
\$58.5K to \$103.1K	12.44	15.81
\$103.1K+	15.49	20.73

Source: 2018 American Community Survey, authors calculations

participating in major programs and tax credits. Our baseline calculations of the marriage tax rates assume full take-up of benefits and tax credits. However, given the low take-up rates in certain programs, we also produce alternative calculations of the marriage tax that account for less than full benefit take-up. Specifically, we weight each benefit of an eligible family by the probability of program take-up reported in Appendix D, table 3.

Appendix D, table 4 reports participation-adjusted average marriage tax rate, gross tax rates, and claw-back rates by gender. As expected, the average take-up rates-adjusted mar-

riage tax and transfer claw-back rates are smaller – less than half the size of the full take-up rates reported in table 6.

Next, we re-estimate equation 17 with the adjusted marriage penalties. Table 9 shows the results by gender and presence of children. In all samples, the participation-adjusted marriage tax rate has a significant negative effect on the probability of marrying. The effects are of the same magnitude and sign as the estimated effects of unadjusted marriage tax rates apart from males with no children. For example, for females with children, a one percentage point increase in lifetime marriage tax (adjusted for take-up) decreases the probability of marriage by 3.95 percentage points. For the unadjusted marriage tax we estimated a 3.69 percentage points reduction in the probability of marriage.

Table 9: Effects of 1 Percent Increases in Marriage Tax Rate and Its Components, Adjusted for Partial Take-up of Benefits, on the Probability of Marrying.

	Probability of Marrying(%)							
	Female				Male			
	With Children		No Children		With Children		No Children	
Marriage Tax Rate	-3.95*** (0.32)	–	-1.55*** (0.69)	–	-1.09*** (0.30)	–	-1.26** (0.45)	–
Gross Tax Rate	–	-15.52*** (1.52)	–	-5.58*** (1.01)	–	-2.03** (0.67)	–	-2.88** (1.06)
Transfer Claw-Back Rate	–	-2.67*** (0.70)	–	-0.78* (0.37)	–	-1.38*** (0.36)	–	0.81 (0.44)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
State FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	73,784	73,784	129,303	129,303	55,126	55,126	169,239	169,239

***, ** and * indicate significance levels at 0.1%, 1% and 5% respectively
Standard errors (in parentheses) are based on 50 bootstrap samples

5.5.2 Current-Year Estimates

As indicated, the earlier literature considers static marriage-tax measures, particularly the impact on net taxes per spouse of getting divorced. We also consider a static measure – the current-year marriage tax. We define this alternative measure as the change in current-year net taxes arising from clone marriage divided by current-year disposable income. Table 5 shows average current-year predicted marriage penalties for the ACS respondents. Table 10 provides results from re-estimating equation 17 using the new measure. Again, we find a negative impact of marriage taxation on the rate of marrying. We also find differences in the impact of the gross tax and the claw-back tax.

Table 10: Effects of Increasing Current-Year Marriage Tax Rate by 1 Percentage Point on the Probability of Marrying

	Female				Male			
	With Children		No Children		With Children		No Children	
Marriage Tax Rate	-1.45*** (0.38)	–	-0.83*** (0.21)	–	-0.08* (0.03)	–	-2.58*** (0.31)	–
Gross Tax Rate	–	-22.40*** (1.83)	–	-14.13*** (1.53)	–	0.36 (0.43)	–	-10.88*** (1.85)
Transfer Claw-Back Rate	–	-0.92* (0.43)	–	-0.30 (0.22)	–	-0.06 (0.04)	–	-1.77*** (0.35)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	73,784	73,784	129,303	129,303	55,126	55,126	169,239	169,239

***, ** and * indicate significance levels at 0.1%, 1% and 5% respectively
Standard errors (in parentheses) are based on 50 bootstrap samples.

Appendix D, table 6 shows simulated marrying rates by gender, child status, and prior year income levels in the absence of current-year marriage taxation. Compared with table 8, the simulated increase in the marrying rate is significantly smaller, suggesting the importance of the lifetime perspective on marriage taxation. For example, in the absence of a lifetime marriage tax, the marrying rate for females with children in the bottom-income quintile would be 13.7 percentage points higher. Conversely, setting the current-year marriage tax rate to zero would increase marrying rates for this group by only 0.68 percentage points.

These current-year results are somewhat similar to those found in the literature in that they are statistically significant but small in magnitude.

5.5.3 Accounting for Differences in Partners' Earnings

As indicated, we also explore how marrying someone with 50 percent-lower or 50 percent-higher earnings would impact the results. Equation 17 is re-estimated using the alternative measures of the marriage penalties. Tables 11 and 12 summarize the regression results. The results are largely consistent with the baseline results in table 7 for the overall Marriage Tax Rate, although there are small differences in the components.

Table 11: Effects of 1 Percentage-Point Increases in the Marriage Tax Rate and Its Components on the Probability of Marrying Assuming Marriage to Replicant with 50% Lower Earnings

	Female				Male			
	With Children		No Children		With Children		No Children	
Marriage Tax Rate	-3.45*** (0.57)	-	-1.52*** (0.31)	-	-0.19* (0.08)	-	-1.26*** (0.36)	-
Gross Tax Rate	-	-16.03*** (1.38)	-	-9.97*** (1.13)	-	-3.26*** (0.95)	-	3.00 (1.51)
Transfer Claw-Back Rate	-	-0.10** (0.03)	-	0.68 (0.41)	-	-0.57*** (0.17)	-	-1.67*** (0.36)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	73,784	73,784	129,303	129,303	55,126	55,126	169,239	169,239

***, ** and * indicate significance levels at 0.1%, 1% and 5% respectively
Standard errors (in parentheses) are based on 50 bootstrap samples

Table 12: Effects of 1 Percentage-Point Increases in the Marriage Tax Rate and Its Components on the Probability of Marrying Assuming Marriage to Replicant with 50% Higher Earnings

	Female				Male			
	With Children		No Children		With Children		No Children	
Marriage Tax Rate	-3.75*** (0.70)	-	-1.06*** (0.31)	-	-0.23* (0.10)	-	-0.79* (0.39)	-
Gross Tax Rate	-	-10.75*** (1.60)	-	-3.38** (1.12)	-	-3.10*** (0.71)	-	2.20 (1.82)
Transfer Claw-Back Rate	-	-3.03*** (0.74)	-	-0.59 (0.36)	-	-0.71*** (0.20)	-	-1.74*** (0.38)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
State Fixed Effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	73,784	73,784	129,303	129,303	55,126	55,126	169,239	169,239

***, ** and * indicate significance levels at 0.1%, 1% and 5% respectively
Standard errors (in parentheses) are based on 50 bootstrap samples

6 Conclusion

This paper provides a new measure of marriage taxation, namely the reduction in the actuarial present value of a person’s remaining lifetime spending from marrying themselves, i.e., from marrying their clone. Considering clone marriage controls for the endogenous choice of partners. We calculate clone marriage taxes for single as well as singleized respondents to the Survey of Consumer Finances. Singleized respondents are married or partnered couples who we counterfactually divorce.

Positive (negative) marriage taxes reflect a greater than (less than) doubling of remaining lifetime net taxes from getting married. Thus, accurately calculating marriage taxes requires incorporating all major and, to the extent possible, minor federal and state tax and benefit programs. Our fiscal analysis is up-to-date as well as comprehensive. It includes the Tax Cuts and Jobs Acts, the expansion of SNAP’s Broad-Based Categorical Eligibility, the Affordable Care Act’s subsidies and out-of-pocket limits, the expansion of Medicaid under the ACA, and the progressive Medicare Part B premium formula.

Assuming full benefit-program participation, we calculate a 2.69 percent average marriage tax rate facing those aged 20 through 49. Among the bottom income quintile, the average is higher – 3.71 percent. Among the richest quintile, it’s lower – 1.49 percent. Interestingly, the average marriage tax is no higher among low-income respondents with children than among low-income respondents without children thanks to offsetting benefit losses and tax savings. But these averages encompass substantial within-group variation. In particular, a significant share of single females with children face very high marriage taxes.

Some states are far more marriage friendly than others. Average tax rate ranges from 1.53 percent in New Mexico to 3.99 percent in Hawaii. These differences arise due to a range of state-specific tax and benefit provisions, including Medicaid expansion encouraged by the Affordable Care Act.

To determine the impact of marriage taxation on marrying, we first impute clone-marriage taxes to respondents to the 2018 American Community Survey (ACS). Next we determined

how their imputed marriage tax affected the propensity of single ACS respondents to marry. We found a statistically and economically significant negative impact of the marriage tax. Among young ACS singles, a one-percentage-point increase in the marriage-tax rate decreases marriage probabilities of females with and without children by 3.69 and 1.12 percentage points, respectively. For males with and without children, a one-percentage-point increase in the marriage tax rate decreases the probability of marriage by 0.21 and 1.54 percentage points, respectively.

Our simulations show that absent marriage taxation, females and males with children and income in the bottom quintile would have 13.68 and 1.46 percentage-point higher marrying rates, respectively. The tax-induced reduction in the annual marrying rate has implications for the stock of marriage. For 25-year-old, low-income females with children, the marriage tax reduces their chances of being married ten years later by 7.52 percent. Correction for program participation makes little difference to this value, with a reduction in the probability of being married 10 years later of 6.24 percent compared to 7.52 percent.

Our marriage tax differs dramatically from the conventional measure, which ignores all future fiscal consequences from marriage apart from those arising in the current year. Replacing our remaining lifetime tax measure with the current-year measure produces a dramatically smaller predicted increase in the marrying rate from eliminating marriage taxation. As for the reduction in the age-35 share married, the remaining lifetime measure indicates, as noted, a 7.52 percentage-point reduction. In contrast, the current-year tax measure suggests only a 3.41 percentage-point reduction.

To conclude, the U.S. tax and transfer system discourages getting married especially for low-income females with children. Given the importance to children of living with both parents and the economic benefits to both children and adults of forming and maintaining a nuclear family, researching ways to make the fiscal system marriage-neutral seems highly worthwhile.

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Appendices

Appendix A Marriage Incentives and Disincentives Created by the U.S. Fiscal System¹³

A.1 Federal and State Income Taxes – Marriage Non-Neutralities

The federal income tax has a history of bracket-based marriage taxation of certain middle- and upper-income individuals depending on the size of their incomes. Table 1 reports federal income-tax brackets and rates before and after adoption of the Tax Cuts and Jobs Act (TCJA) of 2017. Prior to TCJA individuals with identical taxable incomes below \$37,950 faced no federal bracket-based income-tax penalty in marrying. Those with higher, identical taxable incomes did face a penalty depending on the size of their common taxable incomes. For example, marriage by two people with taxable incomes of \$76,550 each left them in the 25 percent bracket. But if each had \$76,551 in taxable income, marriage transported them from the 25 percent to the 28 percent bracket. Individuals with taxable incomes between \$91,901 and \$418,400 also jumped brackets in marrying someone with the same taxable income. But for those with taxable incomes above \$418,400, the marriage tax went away. Whether they married or not, their tax bracket was 39.6 percent.

¹³Description of all tax policies and transfer programs in this section come from the Atlanta Fed Policy Rules Database developed in [Ilin and Terry \(2021\)](#)

The TCJA greatly reduced, but did not eliminate bracket-based marriage taxation. Under TCJA’s 2018 brackets, individuals with identical taxable incomes up to \$200,000 remain in the same tax bracket after marrying. But if they both earned between \$300,001 and \$500,000 their bracket increases from 35 percent to 37 percent. But if the common taxable income was over \$500,000, marriage leaves the tax bracket unchanged at 37 percent.

Table 1: Federal Tax Brackets Pre- and Post-TCJA

Post-TCJA (2018)			Pre-TCJA (2017)		
Rate	Taxable Income (Single)	Taxable Income (Married*)	Rate	Taxable Income (Single)	Taxable Income (Married*)
10%	Up to \$9,525	Up to \$19,050	10%	Up to \$9,325	Up to \$18,650
12%	\$9,526-\$38,700	\$19,051-\$77,400	15%	\$9,326-\$37,950	\$18,651-\$75,900
22%	\$38,701-\$82,500	\$77,401-\$165,000	25%	\$37,951-\$91,900	\$75,901-\$153,100
24%	\$82,501-\$157,500	\$165,001-\$315,000	28%	\$91,901-\$191,650	\$153,101-\$233,350
32%	\$157,501-\$200,000	\$315,001-\$400,000	33%	\$191,651-\$416,700	\$233,351-\$416,700
35%	\$200,001-\$500,000	\$400,001-\$600,000	35%	\$416,701-\$418,400	\$416,701-\$470,000
37%	Over \$500,001	Over \$600,000	39.6%	Over \$418,401	Over \$470,001

* The table assumes married couples file joint tax returns.

If the marriage is between those with different taxable incomes, the system provides marriage subsidies depending on the spread in the two individuals’ taxable incomes. For example, pre-TCJA a person with \$100,000 in 2017 taxable income was in the 28 percent bracket. But in marrying someone with zero taxable income, the tax bracket dropped to 25 percent. In 2018, under TCJA, the tax bracket dropped from 24 percent to 22 percent.

The income tax systems of some U.S. states and D.C. feature additional marriage non-neutralities. Twelve states calculate tax liability or taxable income proportional to the federal income-tax levels and therefore have the same pattern of marriage penalties and subsidies. Fifteen states have special joint rate schedules with broader tax brackets for married couples that reduce or eliminate the marriage penalty. Ten states allow married couples to file returns as single individuals, permitting them to avoid marriage taxation. Six states have a flat tax rate with no marital status variation in their deductions or exemptions and, therefore, no marriage penalty. Finally, nine states have no income tax.

The Alternative Minimum Tax (AMT) provision of the income tax can generate additional marriage penalties. Some households with particularly large “tax preference items” that lower their taxable income are subject to the AMT provided it exceeds an exemption amount. The 2020 AMT exemption is \$113,400 for married couples and \$72,900 for individuals. Marriage could easily push a couple into AMT territory.

The Earned Income Tax Credit (EITC) is another source of federal income tax non-neutrality. The EITC is means-tested and available only to filers with earned incomes below a certain threshold. Therefore, the income of a two-earner family may exceed the maximum allowable income for EITC eligibility, but if the two spouses were single, then one (or both) may be eligible. For example, in 2020, the eligibility limit for a single adult with one child was \$41,756 compared to \$47,646 for a married couple with one child. Clearly, there is a substantial potential loss in EITC tax credits associated with marriage.

A.2 Benefit Programs – Marriage Non-Neutralities

Means-tested benefit programs may also violate marriage neutrality if the combined income of all family members is counted towards eligibility. Family-income eligibility limits are typically set as a percentage of the federal poverty level (FPL), state median income (SMI), or area median income (AMI) and do not double when two individuals with the same income marry. Thus, two unmarried individuals with sufficiently low income may be eligible for public assistance when single, but not when married. Stated differently, any program that conditions participation or benefit levels on family income has the potential to embed a marriage tax. That said, the marriage tax associated with any such program will impact only a subset of marriages. For example, two singles, neither of whom qualify on their own, won’t qualify if they marry.

Temporary Assistance for Needy Families (TANF) provides temporary cash support to families with children when their income is too low to cover basic needs. Benefit amounts and eligibility are determined at state level and depend upon income and, in some states,

assets. In addition, receipt of cash assistance is limited to a certain number of months over one's lifetime. The federal lifetime limit is sixty months, but states can set limits below this. In some states TANF is available only for single parents, thus it directly penalizes marriage. Other states offer TANF to two-parent families, but the income eligibility limits do not double when two individuals marry and can lead to a loss of benefits following marriage.

The Supplementary Nutrition Assistance Program (SNAP) provides needy families with electronic benefit cards, similar to debit cards, that can be used to purchase eligible food items. All household members are included in the SNAP unit. Consequently, marriage may push the family over the SNAP income limit. In addition, the joint benefits of two unmarried low-income individuals may be higher than their total benefits when they are married if the maximum payment for a single-person household exceeds half the maximum payment for a two-person household. Like TANF, SNAP benefits levels are determined at the federal level, with eligibility rules varying by state, family size, family income, and, in some states, assets. Income eligibility limits are based on the FPL and vary by state, particularly as some states have expanded eligibility under what's called "Broad-Based Categorical Eligibility".

The Child Care and Development Fund (CCDF) provides childcare assistance to low-income families. Available benefits vary by state, age of the child(ren), and family income. The benefit amount is calculated as the estimated cost for childcare minus the family co-payment. Childcare costs vary by state and age of the child, while co-payment amounts vary by state, family size, and household income. To receive a subsidy, a family's income must be below an initial eligibility threshold. Once eligible, families can continue receiving a subsidy provided their income remains below a continuous eligibility threshold, which is typically higher than the initial eligibility threshold. States can adjust both thresholds but cannot set them higher than 85 percent of the state median income (SMI). SMI levels do not change proportionally with family size. Hence, marriage can make a family ineligible for a subsidy.

The Housing Choice Voucher Program (Section 8) helps very low-income families, the elderly, and the disabled afford private-market housing. Participants pay 30 percent of

their income towards rent, with the rest covered by a voucher up to a maximum payment standard, including an allowance for utilities. The initial income-eligibility threshold is set at 50 percent of SMI. Once eligible, a family can keep the voucher indefinitely. However, if a voucher recipient marries someone with sufficient income, the voucher amount is reduced, if not eliminated. Additionally, a family waiting to start receiving the voucher can lose initial eligibility due to marriage.

Both Medicaid and the Children's Health Insurance Program (CHIP) are joint federal and state programs that assist low-income adults and children with medical costs. Eligibility for both programs is based on the federal poverty level (FPL). In states that expanded Medicaid, the eligibility limit for Medicaid is 138 percent of the FPL. In most non-expansion states, adults without dependents aren't eligible and those with dependents face lower income thresholds. Income thresholds for CHIP vary by state. Since FPL levels don't change proportionally with family size, marriage can push Medicaid or CHIP recipients above the income eligibility limit.

Health Insurance Marketplace (ACA) subsidies are designed to assist the uninsured with healthcare coverage. The law provides consumers with subsidies, called premium tax credits, that lower costs for certain households. Eligibility for subsidies is determined at the national level. Family income must be between 100 percent and 400 percent of the FPL. Given that the program has a lower bound on income eligibility, a marriage subsidy can arise if the married couple's combined income is above the poverty line, even if each individual's income is below the threshold. In addition, since the ACA premium subsidy declines with family income, marriage can lower a couple's total subsidy if it places the couple in a lower subsidy bracket. The size of the ACA subsidy depends on a household's modified adjusted gross income (MAGI) and applicable FPL as well as the cost of the silver ACA plan in the household's geographic region. Since the FPL and local premium depend, in turn, on family size and the ages of family members, the ACA's contribution to the marriage tax will depend on a variety of variables. The ACA also provides a second subsidy in the form of a ceiling

on out-of-pocket healthcare spending that depends on MAGI. Eligibility for this ceiling can also disappear if marriage raises the couple’s MAGI above the eligibility threshold.

Supplementary Security Income (SSI) provides cash payments to aged, blind, and disabled individuals or married couples. The federal SSI benefit standards depend on whether the unit is eligible as an individual, a couple, or an individual living with an ineligible spouse. Marriage may decrease SSI benefits in two ways. First, SSI counts a portion of an ineligible spouse’s income toward the categorically eligible person’s income. Therefore, marriage to an ineligible spouse may make the eligible spouse ineligible. Second, if both members of a couple are categorically eligible for SSI, the sum of their individual payments is higher if they are not married.

Appendix B Illustrating our Lifetime Marriage Tax Calculation

The following example demonstrates how we measure the lifetime net marriage tax for SCF respondents. Consider a hypothetical 30 year-old, Connecticut woman (Adult 1) with two young children under age 12 who earns \$27,000 per year and receives a variety of public-assistance benefits. Table 1 shows the lifetime benefits and tax liabilities for her and for her financial, but childless clone (Adult 2).

If adult 1 doesn’t marry, she pays \$29,936 in expected lifetime taxes and receives \$257,256 in expected lifetime benefits. To be precise, she receives, at different ages, TANF, SNAP, a housing voucher, SSI, Medicaid for adults and children, Medicare, a Marketplace (ACA) subsidy, and a CCDF childcare subsidy. Her childless clone, adult 2, pays more in lifetime taxes and receives less in lifetime benefits because she has no children.

After marriage, the couple’s combined tax liability and eligibility for benefit programs changes. Over time, the couple receives less in TANF, SNAP, housing support, SSI, Medicaid, Medicare, and childcare benefits. This loss is partially offset by larger ACA subsidies and a

decrease in lifetime taxes.

If she remains single, her lifetime net tax is -\$227,320. Her childless clone’s lifetime net tax is -\$71,671. Together, these sum to -\$298,991, which is a \$61,960 larger subsidy than the -\$237,031 they would receive if they marry. Dividing \$61,960 by the couple’s combined lifetime spending when single of \$1,078,969 results in a 5.74 percent lifetime net marriage tax for adult 1.

Table 1: Calculating the Marriage Tax Rate

	Single Adult 1	Single Adult 2	Married	Δ^{**}
TANF*	4,513	0	0	-4,513
SNAP	15,646	5,083	0	-20,729
Housing Voucher	15,649	13,938	20,226	-9,361
SSI	1,151	1,151	0	-2,301
SSDI	0	0	0	0
Social Security	14,595	14,595	28,352	-839
Medicaid for Adults	50,644	11,534	1,301	-60,877
Medicaid for Children	55,330	0	42,379	-12,950
Medicare	12,044	12,044	23,389	-699
ACA Subsidy	70,343	107,868	231,285	53,074
CCDF Subsidy	17,341	0	2,890	-14,451
Total Taxes	29,936	94,542	112,792	-11,686
Total Transfers	257,256	166,213	349,822	-73,646
Net Taxes	-227,320	-71,671	-237,031	61,960
Total Resources	389,989	389,989	779,978	0
Net Resources	617,309	461,660	1,017,009	-61,960

*Connecticut fiscal rules are applied to determine eligibility for benefit programs and corresponding benefits values

** Δ = Married - (Single Adult 1 + Single Adult 2)

Single Adult 2 is identical to Single Adult 1 except she has no children.

Appendix C Potential Measurement Error in Estimates

Equation 17 contains two sources of measurement error that can potentially bias our estimates. First, marriage tax rates used in the second stage regression 17 are not directly observable. Instead, they are generated using the first-stage regression. This “generated

regressor” may include measurement error that is carried over to the second stage regression. [Anderson et al. \(1976\)](#) and [Barro \(1977\)](#) show that under some regularity conditions, consistency and asymptotic normality of the least squares estimator are preserved, but asymptotic variance has a different form in general. We correct standard errors for both stages by applying [Pagan \(1984\)](#)’s bootstrap method.

Second, our marriage tax rate measure τ is an imperfect measure of the “true” marriage tax and, thus, contains measurement error. If the difference between the estimated marriage tax and the actual marriage tax is orthogonal to the actual tax rate, then our OLS estimates are unbiased and consistent. However, there can be multiple reasons why this condition is not satisfied. It can create downward or upward biases in our OLS estimates. Suppose, for example, that low-income SCF respondents systematically under-reported income and that, as a result, τ underestimated the actual marriage tax for low-income families. In this case, the measurement error is negatively correlated with income and would bias the OLS coefficient downward. As another example, if people tend to marry partners with higher income, then τ would consistently *overestimate* the actual marriage tax for low-income people. In this case, measurement error is positively correlated with income and produces upward bias in the OLS coefficient. This is further explored in [Section 5.5.3](#) where we study how marrying someone with 50 percent-lower or 50 percent-higher earnings would impact the results.

Appendix D Additional Tables and Figures

Table 1: “Singleized” 2016 Survey of Consumer Finances. Summary Statistics

	Female		Male	
	With Children	No Children	With Children	No Children
Age*	36.38	34.80	39.60	36.09
	7.35	8.94	6.99	8.03
Income**	34,995	34,000	46,500	50,000
	(47,033)	(34,886)	(337,556)	(124,612)
Number of Children*	1.97	–	1.56	–
	(1.00)	–	(0.68)	–
Renters	0.39	0.51	0.41	0.42
Sample Size	1,610	759	368	1,935

*Mean values are reported

**Median values are reported

Standard deviation is reported in parenthesis

Income is defined as an individual’s current-year earned and unearned income from all sources. The assets of married/partnered couples assets are divided equally and children are assigned to the mother or the primary respondent for same-sex couples when respondents are “singleized”.

Table 2: 2018 American Community Survey. Summary Statistics

	Female		Male	
	With Children	No Children	With Children	No Children
Married in the Previous Year	0.13	0.10	0.15	0.08
Age*	30.09	29.09	29.25	29.89
	(7.62)	(7.63)	(7.77)	(7.56)
Income**	16,769	25,563	22,904	27,608
	(27,521)	(36,942)	(34,649)	(45,406)
Number of Children*	1.72	–	1.62	–
	(0.92)		(0.84)	
High School Degree or Less	0.51	0.28	0.62	0.42
Some College or Associate	0.34	0.30	0.28	0.28
College Degree	0.15	0.42	0.11	0.29
White, non-Hispanic	0.39	0.63	0.44	0.62
Black, non-Hispanic	0.27	0.17	0.18	0.15
Hispanic	0.29	0.17	0.34	0.19
Other Race	0.04	0.04	0.04	0.04
Renters	0.54	0.53	0.46	0.50
Sample Size	73,784	129,303	55,126	169,239

*Mean values are reported

**Median values are reported

Standard deviation is reported in parenthesis

Sample comprises 2017 single 20-49 year-olds.

Income is defined as current-year earned and unearned income from all sources

Table 3: Estimated Participation and Take-Up of Benefit Programs

	Number of Participating Units ('000)	Number of Eligible Units ('000)	Year	Take Up Rate (%)
TANF	1,213 families	4,869 families	2016	24.9
SNAP	40,776 persons	60,334 persons	2018	67.6
CCDF Childcare Subsidy	2,099 children	8,417 children	2015	24.9
Section 8 Housing Voucher	2,200 families	19,517 families	2016	11.2
Marketplace Subsidy	9,600 persons	112,942 persons	2020	8.5
Medicaid (Adults)	39,042 persons	48,863 persons	2016	79.9
Medicaid/CHIP (Children)	35,953 persons	38,370 persons	2016	93.7
EITC	26,500 taxpayers	33,974 taxpayers	2018	78.0
CTC	48,000 taxpayers	56,946 taxpayers	2020	84.3

Sources: Data on the number of participating and eligible units for TANF as those of [Giannarelli \(2019\)](#). Data on the number of participating and eligible units for CCDF are provided in [Chien \(2019\)](#). The number of participating and eligible units for Medicaid is reported by the Kaiser Family Foundation (<https://www.kff.org/>). The number of expected Child Tax Credit claims is provided by the Joint Committee on Taxation (<https://www.jct.gov>). EITC participation and eligibility are provided by the Internal Revenue Service (IRS) statistics for tax returns (<https://www.aitc.irs.gov/eitc-central/participation-rate/eitc-participation-rate-by-states>). The number of SNAP participating units is available at the USDA website (<https://www.fns.usda.gov>). The number of participating units for the Section 8 Housing Voucher is provided by the Housing and Urban Development Department's (HUD) Office of Policy Development and Research (<https://www.huduser.gov>). The number of eligible units for SNAP, Section 8 Housing Voucher, Health Insurance Marketplace Subsidy, and Child Tax Credit are estimated by applying the Policy Rules Database ([Ilin and Terry 2021](#)) to the Annual Social and Economic Supplement of the Current Population Survey.

Table 4: Average Predicted Marriage Penalties in the 2018 ACS by Gender, Adjusted for Partial Take-up Rates

	Female		Male	
	With Children	No Children	With Children	No Children
Marriage Tax Rate	2.36 (1.22)	1.61 (1.18)	0.90 (1.61)	0.94 (1.03)
Gross Tax Rate	-0.75 (0.36)	-0.45 (0.58)	-0.67 (0.97)	-0.17 (0.42)
Claw-Back Rate	3.11 (1.20)	2.06 (1.37)	1.57 (2.01)	1.11 (0.93)

Standard deviation is reported in parenthesis

Table 5: Average Predicted Current-Year Marriage Penalties in the 2018 ACS by Gender

	Female		Male	
	With Children	No Children	With Children	No Children
Marriage Tax Rate	5.26 (1.77)	4.06 (2.18)	4.11 (10.94)	2.56 (1.18)
Gross Marriage Tax Rate	-0.28 (0.22)	-0.24 (0.20)	-0.31 (0.69)	-0.25 (0.18)
Claw-Back Rate	5.54 (1.83)	4.30 (2.30)	4.42 (11.50)	2.81 (1.27)

Standard deviation is reported in parenthesis

Table 6: Impact of Current-Year Marriage Taxation on Marrying

	Actual Marriage Initiation	Predicted Marriage Initiation without Current Year Marriage Tax
Female, with Children		
0 to \$26K	9.40	10.18
\$26K to \$40K	11.82	13.45
\$40K to \$58.5K	16.36	16.58
\$58.5K to \$103.1K, Q4	22.73	21.46
\$103.1K+	26.80	28.63
Female, without Children		
0 to \$26K	6.47	7.71
\$26K to \$40K	9.81	10.85
\$40K to \$58.5K	12.15	12.67
\$58.5K to \$103.1K	13.52	14.20
\$103.1K+	14.28	16.13
Male, with Children		
0 to \$26K	7.49	8.34
\$26K to \$40K	15.24	16.86
\$40K to \$58.5K	23.17	22.76
\$58.5K to \$103.1K	29.92	30.79
\$103.1K+	43.28	48.82
Male, without Children		
0 to \$26K	3.51	4.57
\$26K to \$40K	7.08	7.84
\$40K to \$58.5K	9.88	9.96
\$58.5K to \$103.1K	12.44	12.99
\$103.1K+	15.49	18.60

Source: 2018 American Community Survey, authors calculations

Figure 2: Decomposition of the Marriage Tax by Income Quintile. Individuals with Children.

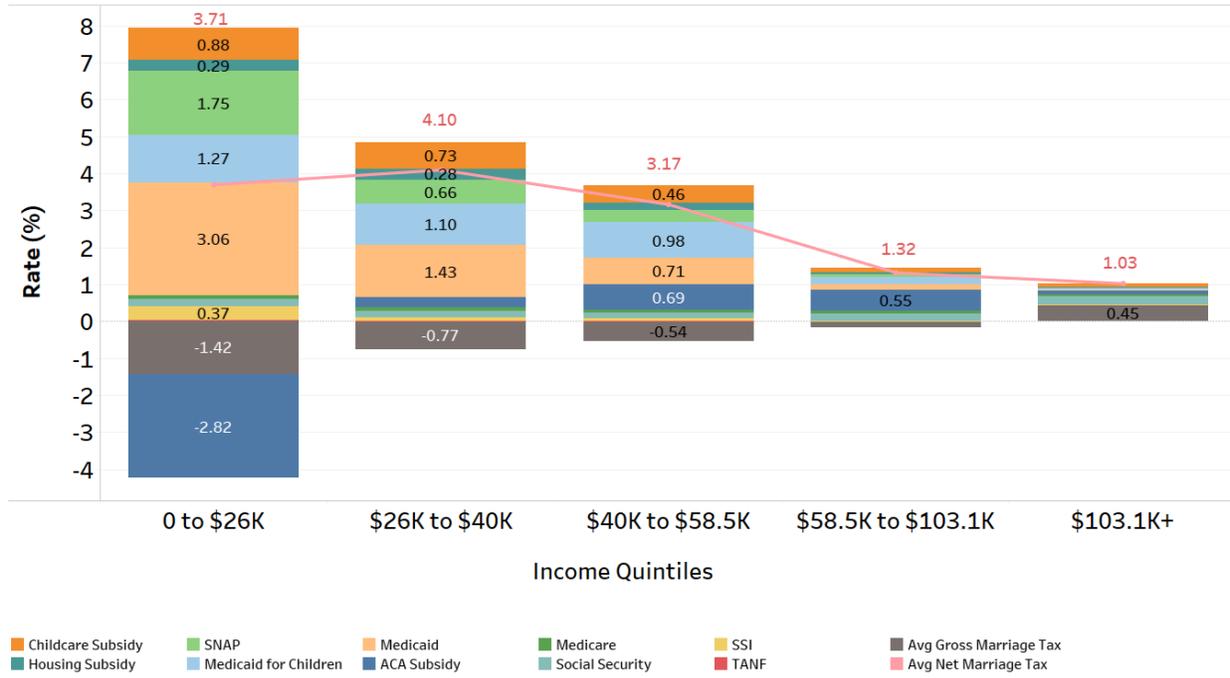


Figure 3: Decomposition of the Marriage Tax by Income Quintile. Individuals without Children.

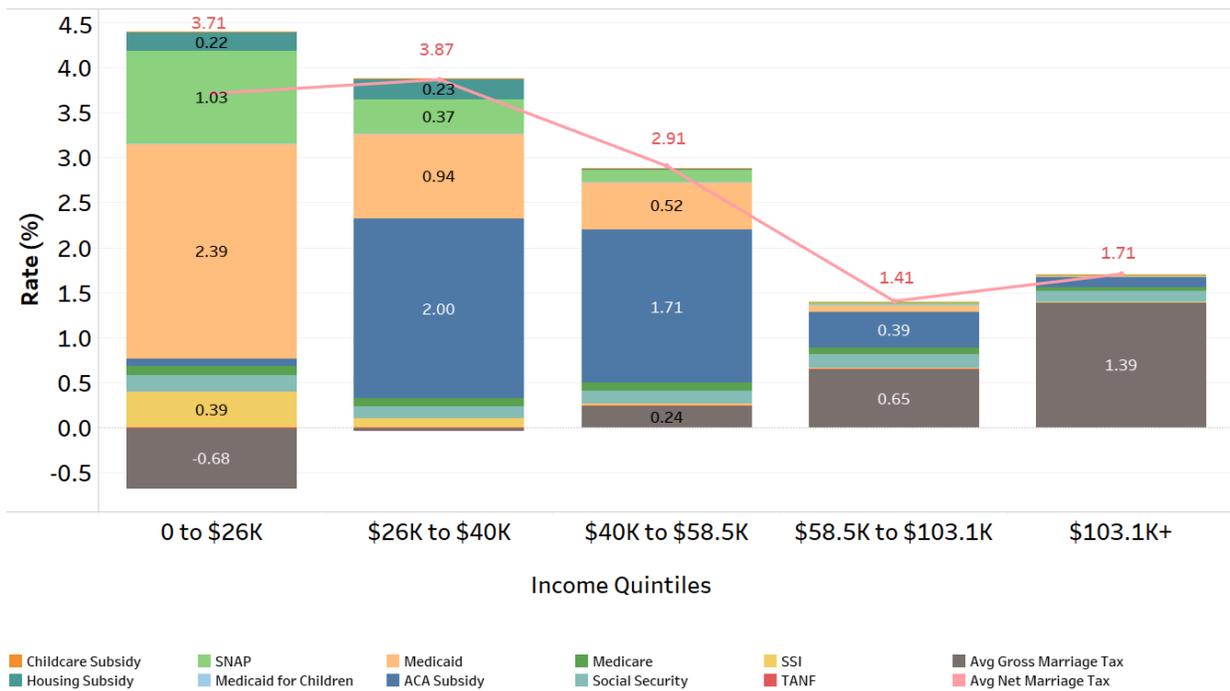


Figure 4: Decomposition of the Marriage Tax by Income Quintile. Maximums.

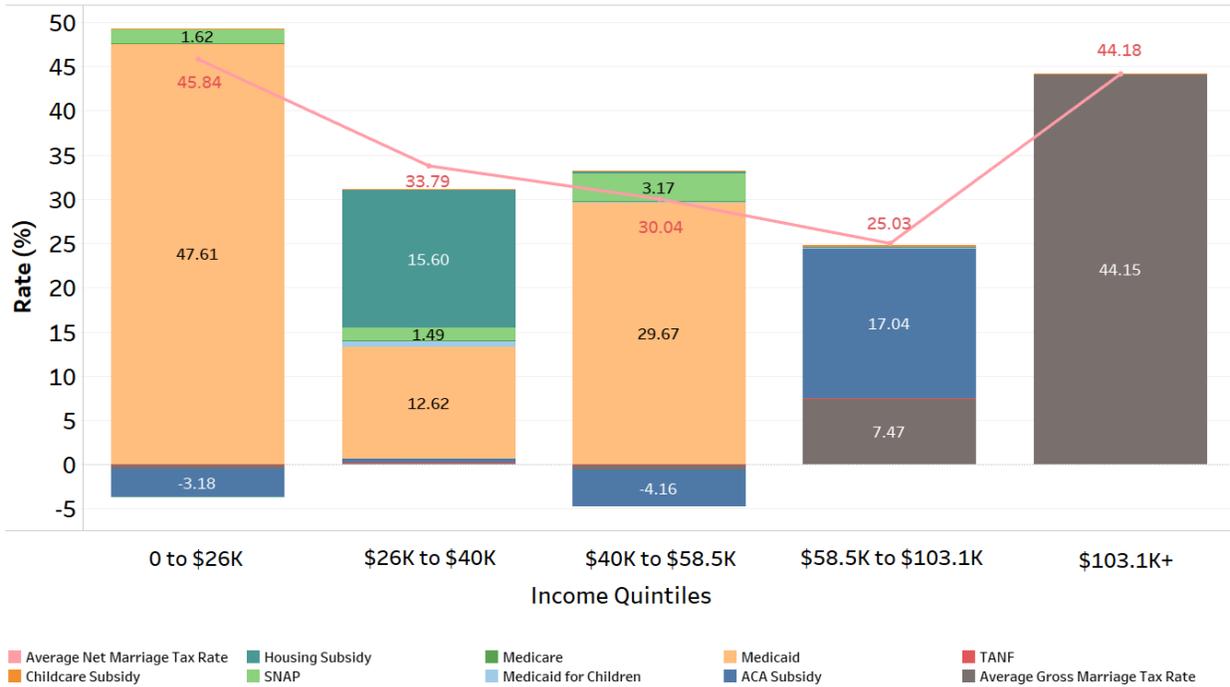


Figure 5: Decomposition of the Marriage Tax by Income Quintile. Minimums.

