



AgEcon SEARCH

RESEARCH IN AGRICULTURAL & APPLIED ECONOMICS

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search

<http://ageconsearch.umn.edu>

aesearch@umn.edu

*Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.*

No endorsement of AgEcon Search or its fundraising activities by the author(s) of the following work or their employer(s) is intended or implied.



Fondazione Eni Enrico Mattei

**Sexual Orientation and Household
Decision Making.
Same-Sex Couples' Balance of
Power and Labor Supply Choices**
Sonia Oreffice

NOTA DI LAVORO 81.2008

OCTOBER 2008

ETA – Economic Theory and Applications

Sonia Oreffice, *University of Alicante*

This paper can be downloaded without charge at:

The Fondazione Eni Enrico Mattei Note di Lavoro Series Index:
<http://www.feem.it/Feem/Pub/Publications/WPapers/default.htm>

Social Science Research Network Electronic Paper Collection:
<http://ssrn.com/abstract=1281515>

The opinions expressed in this paper do not necessarily reflect the position of
Fondazione Eni Enrico Mattei
Corso Magenta, 63, 20123 Milano (I), web site: www.feem.it, e-mail: working.papers@feem.it

Sexual Orientation and Household Decision Making. Same-Sex Couples' Balance of Power and Labor Supply Choices

Summary

I estimate how intra-household bargaining affects gay and lesbian couples' labor supplies, investigating their similarity to heterosexual decision-making, in a collective household framework. Data from the 2000 US Census show that couples of all types exhibit a significant response to bargaining power shifts, as measured by differences between partners in age or non-labor income. In gay, lesbian, and heterosexual cohabiting couples, a relatively young or rich partner has more bargaining power and hence supplies less labor, the opposite holding for his/her mate. Married couples value the older spouse instead, or the richer. No effects are found for same-sex roommates.

Keywords: Household Decision Making, Same-Sex Couples, Labor Supply

JEL Classification: D1, J22

I thank Pierre-André Chiappori, Brighita Negrusa, Curtis Simon and Chuck Thomas for their helpful comments and suggestions. Errors are mine.

Address for correspondence:

Sonia Oreffice
Department of Economics
University of Alicante
Ctra. San Vicente del Raspeig. s/n
03080 Alicante
Spain
E-mail: sonia@merlin.fae.ua.es

I. Introduction

This paper examines the labor supply choices of gay and lesbian couples, to explore the role of intra-household bargaining power in same-sex household decision making. A large body of theoretical and empirical literature models and shows that the intra-household distribution of power influences heterosexual households' outcomes (Chiappori, Fortin, Lacroix, 2002, Browning, Bourguignon, Chiappori, Lechene, 1994, Browning, Chiappori, 1998, Lundberg and Pollak, 1996, Grossbard-Shechtman, 1993). In particular, the collective household behavior model predicts that household members make Pareto-efficient decisions according to their respective bargaining power positions, which in turn depend on outside opportunities and social and legal factors, such as members' relative share of non-labor income, their age differences, and abortion and divorce laws (Browning et al., 1994, Chiappori et al., 2002, Orefice, 2007, Thomas, 1990).

However, all this literature is centered on heterosexual families, while nowadays there is an important legal and cultural movement toward the legalization of same-sex marriages as couples with the same rights and status as heterosexuals, e.g. the California's Supreme Court ruling legalizing same-sex marriages, and the New York governor providing legal status to same-sex marriages performed elsewhere (May 2008). These recent social changes, along with the sizable presence of homosexual partnerships throughout the country, prompt the compelling question of whether the household economics developed around heterosexual families directly applies to gay and lesbian family behavior, and how similarly to heterosexual couples.

I analyze same-sex couples' labor supplies as a household decision, testing their response to intra-household bargaining power, and their consistency with the collective household labor supply behavior predicted for heterosexual couples. In particular, I focus on how gay and lesbian

households' balance of power and labor supplies are responsive to differences in age and non-labor income between partners.

Economic studies of same-sex couples present both similarities and differences with heterosexual households. Black, Sanders, Taylor (2007) assume that families' preferences do not systematically differ by sexual orientation. They instead emphasize the differences in biological constraints, affecting homosexuals' fertility, location, household specialization and human capital choices. The similarities in family preferences is also found by Jepsen and Jepsen (2002), in terms of positive assortative mating for non-labor and labor market traits across all types of couples, even though to a smaller extent for same-sex couples. Becker (1991) highlights the disparities between homosexual unions and heterosexual marriages due to the lack of difference in comparative advantage between partners and to the presence of complementarities, stating that same-sex households are less efficient than heterosexual ones. Jepsen and Jepsen (2006) and Tebaldi and Elmslie (2006) directly link sexual orientation to same-sex partners' labor supply. However, the former study considers labor supply an *exogenous* variable. The latter analyzes the determinants of individual labor supply of same-sex partners, but each partner's labor supply decision is assumed to depend only on his/her own characteristics, completely disregarding the influence of the other partner, and the household dimension of labor supply decisions. Finally, there is evidence in the literature of persistent wage disparities among gay, lesbian and heterosexual workers, with lesbians earning significantly more than heterosexual women, and gay men earning significantly less than heterosexual men (e.g. Allegretto and Arthur, 2001, Black, Makar, Sanders, Taylor, 2003, Blandford, 2003, Jepsen, 2007).

However, none of these studies examines the labor supply choices of same-sex couples as a *household endogenous* decision. I test whether same-sex couples make efficient labor supply

choices influenced by partners' bargaining power, as it is found to be the case for heterosexual households, and investigate possible differences in these effects across lesbian, gay, heterosexual cohabiting and married couples. Pairs of same-sex male and female roommates are used as comparison group. Black et al. (2007) and Jepsen and Jepsen (2002) suggest that family preferences do not depend on sexual orientation, I want to check whether the intra-household decision process and bargaining power as well do not vary with sexual orientation.

I focus on the differences in age and non-labor income ownership between partners, as indicators of intra-household bargaining power. The distribution of these traits within a couple, which captures each partner's outside opportunities, is considered to affect the household members' bargaining position and to have a significant impact on household choices, such as labor supply, clothing expenditure and children's health (Browning et al., 1994, Schultz, 1990, Thomas, 1990, Grossbard-Shechtman, 1993). Psychologists as well report that the partner with greater financial resources has greater power, also in same-sex couples (Caldwell and Peplau, 1984, Patterson, 2000). When a partner has a relatively better trait (relatively richer or younger/older), the distribution of gains from the relationship would shift in his/her favor, generating opposite income effects on the partners. Consequently, the partner with a more favorable bargaining position would decrease his/her labor supply, while his/her mate would increase his/hers (Browning et al. 1994, Chiappori et al., 2002). I also test restrictions on these partners' labor supply responses, which are predicted by the collective household labor supply model, and compute the sharing rule partners use to divide their household non-labor resources, highlighting the role of the age and non-labor income differences in determining the income transfers within households. This evidence would strengthen the consistency and interpretation of my findings, since it is very unlikely to hold unless the bargaining power explanation and the

collective household approach are correct for same-sex couples as well, rejecting the unitary model prediction that bargaining power forces are irrelevant to intra-household decisions.

I use Census data for the year 2000, the five-percent sample of the Public Use Microdata Set (PUMS), which provides the most recent largest sample of gay and lesbian partners and their detailed demographic, labor and income information, along with standard samples of heterosexual individuals. These data allow to identify only members of same-sex couples but not single gays or lesbians. This limitation represents a lesser concern here, because my analysis applies to couples. My identification strategy consists of estimating the effects of intra-household age and non-labor income differences on both partners' labor supplies, and comparing changes in their labor supplies cross-sectionally among gay, lesbian, heterosexual couples and roommates.

My empirical analysis reveals that a relatively lower age (higher non-labor income) significantly reduces the younger (richer) partner's labor supply, while it significantly increases the labor supply of his/her relatively poorer (older) mate, controlling for both partners' wages, education and other individual and household characteristics. Results are similar for gay, lesbian and heterosexual cohabiting couples alike, while married (heterosexual) couples display more bargaining power for the older spouse, and somewhat smaller labor supply effects. Consistently with the intra-household bargaining interpretation, same-sex pairs of roommates do not show any significant impact. In particular, in same-sex couples I find that being 5 years younger than your lesbian partner reduces your labor supply by around 23 annual hours, while it increases your mate's labor supply by about 35 annual hours, the figures being 23 and 37, respectively, for gay couples. Owning five thousand dollars more non-labor income than your lesbian partner reduces your labor supply by around 19 annual hours, while it increases your mate's labor supply by about 47 annual hours (32 and 41 for gay partners).

These findings represent the first empirical support for gay and lesbian households' labor supplies to be affected by bargaining power forces, according to the household behavior framework predicted for heterosexual households.

Alternative explanations such as the role of age and non-labor income on individual preferences for leisure, age and income differences as proxies for local labor market conditions and attitudes toward gays and lesbians, household labor specialization, and the misreporting of unmarried homosexual partners in the 2000 Census sample are considered. I argue that these phenomena cannot consistently explain my results, given my intra-household bargaining predictions and empirical evidence.

The paper is organized as follows. Section 2 describes the theoretical framework. Section 3 describes the empirical specification and data. Section 4 presents the empirical results. Section 5 considers alternative explanations for the findings. Section 6 concludes the paper.

II. Theoretical Framework

I apply the collective household labor supply model with distribution factors, developed by Chiappori et. al. (2002), to same-sex couples¹. A household is composed of two decision makers, head and partner, each having a distinct utility function on consumption and leisure. Households are assumed to make Pareto-efficient decisions about each member's leisure and consumption. Preferences are egoistic, in that one mate's utility does not depend on the other's consumption or leisure, although the model can be extended to allow for caring preferences and also public goods. Let h^i and C^i for $i = h, p$ denote member i 's labor supply and consumption of a private composite good (whose price is normalized to unity). The utility function of member i

¹ I also consider heterosexual couples in my empirical analysis.

is $U^i(1 - h^i, C^i, z)$, where U is strictly quasi-concave, increasing, and continuously differentiable for $i = h, p$, and z represents preference parameters, such as education of the two mates. Let y denote household non-labor income and w_i the wage rate of mate i . Finally, let s_1 and s_2 denote two *distribution factors*, variables that affect the intra-household decision process, but not individual preferences or the joint consumption set. The two bargaining power factors considered in this analysis are the differences between mates in non-labor income and age. For simplicity, I abstract from the non-pecuniary benefits of companionship. I follow convention and assume that the utility from companionship is additive; in particular, it does not influence the trade-off between leisure and consumption.

The optimal allocations of labor supply of each mate are determined by the following program:

$$\max_{h^h, C^h} U^h(1 - h^h, C^h, z)$$

subject to

$$C^h \leq \varphi(w_h, w_p, y, s_1, s_2, z) + w_h h^h$$

The partner faces a symmetric problem, $\varphi(w_h, w_p, y, s_1, s_2, z)$ representing the head's share of non-labor income y , and the partner receiving $y - \varphi(w_h, w_p, y, s_1, s_2, z)$. This sharing rule $\varphi(w_h, w_p, y, s_1, s_2, z)$ with which mates divide their non-labor household resources is Pareto-optimally chosen by the couple and depends on the balance of bargaining power. In particular, the stronger the head's bargaining power, the higher his/her share of non-labor income and the lower his/her partner's. The sharing rule $\varphi(w_h, w_p, y, s_1, s_2, z)$ is a function of prices (here normalized to unity), mates' wages, household non-labor income, distribution factors (here the

non-labor income gap and age gap)², and other observable characteristics z (preference parameters).

Solving these maximization problems yields the following equilibrium labor supply functions of the two mates:

$$h^h = h^h[w_h, \varphi(w_h, w_p, y, s_1, s_2, z), z]$$

$$h^p = h^p[w_p, y - \varphi(w_h, w_p, y, s_1, s_2, z), z].$$

The derivatives of each labor supply function with respect to the second arguments are unambiguously negative, reflecting a pure income effect. Hence, factors that strengthen the head's bargaining power reduce the labor supplied by the head and increase the labor supplied by the partner, *ceteris paribus*, in particular controlling for own wage and the couples' total non-labor income y . I investigate whether same-sex couples respond to such factors in the direction predicted by the theory, by testing their impact on these couples' labor supplies, and comparing it to the corresponding effects on heterosexual cohabiting and married couples. Pairs of same-sex roommates are also considered, as control group. Roommates share the mere cohabiting aspects of couples, but do not constitute a household or couple, so that their relationship does not involve intra-household bargaining and household decision making. Therefore, their labor supplies should not be affected by the bargaining power shifts illustrated above, and the collective household model predictions should not hold in their case.

² The sex ratio, divorce laws, abortion legalization, alimony, and child benefits laws, are other examples of distribution factors that have been studied in the literature on heterosexual households (Chiappori et al, 2002, Lundberg and Pollak, 1996, Oreffice, 2007).

This theoretical framework imposes further restrictions on the partners' labor supplies and on the parameters of the sharing rule, which I test in my empirical analysis. First, the labor supply response to the two distribution factors should be proportional across partners³, i.e.:

$$\frac{\partial h^h / \partial s_1}{\partial h^h / \partial s_2} = \frac{\partial h^p / \partial s_1}{\partial h^p / \partial s_2}$$

Second, the sharing rule can be recovered up to an additive function $k(z)$ and the partial derivatives of the sharing rule with respect to its arguments are given by⁴:

$$\varphi_y = \frac{\frac{h_{s_1}^p}{h_y^p}}{\frac{h_{s_1}^p}{h_y^p} - \frac{h_{s_1}^h}{h_y^h}}; \quad \varphi_{w_h} = \frac{\frac{h_{w_h}^p}{h_y^p} \cdot \frac{h_{s_1}^h}{h_y^h}}{\frac{h_{s_1}^p}{h_y^p} - \frac{h_{s_1}^h}{h_y^h}}; \quad \varphi_{w_p} = \frac{\frac{h_{w_p}^h}{h_y^h} \cdot \frac{h_{s_1}^p}{h_y^p}}{\frac{h_{s_1}^p}{h_y^p} - \frac{h_{s_1}^h}{h_y^h}}; \quad \varphi_{s_j} = \frac{\frac{h_{s_j}^h}{h_y^h} \cdot \frac{h_{s_j}^p}{h_y^p}}{\frac{h_{s_1}^p}{h_y^p} - \frac{h_{s_1}^h}{h_y^h}} \quad \forall j = 1, 2$$

All these predictions are very unlikely to be fulfilled unless my bargaining power explanation and the collective household approach are correct and applicable to same-sex couples as well. They would show that distribution factors have sizable effects on same-sex households' decisions, and would reject the unitary model prediction that bargaining power forces are irrelevant to intra-household decisions. In particular, a significant impact of the non-labor income difference on partners' labor supplies represents a rejection of the income pooling hypothesis, which has been empirically rejected for heterosexual households (Browning et al., 1994, Schultz, 1990, Thomas, 1990).

³ Propositions 1 and 3 in Chiappori et al. (2002).

⁴ Proposition 3 in Chiappori et al.(2002). These conditions hold provided that $h_y^h \cdot h_y^p \neq 0$,

where h_j^i is the partial derivative of hours worked of member i with respect to the variable j .

III. Empirical Specification and Data

III.I Identification Strategy

My main sample consists of gay and lesbian couples with both partners between 18 and 65 years of age. I also consider heterosexual cohabiting and married men and women, and roommates, all in the same age bracket. Moreover, all individuals in my samples are not in school, not in the military, and not in a farm household. A couple consists of the head of the household and his/her unmarried partner, spouse or roommate. I include intact couples only if both the head and the mate are actually present, while I exclude households where there are multiple mates, or more than two adults.

The following equations for labor supply are estimated for heads and partners, and run on each type of couples, gay, lesbian, male roommates, female roommates, heterosexual cohabiting, and married couples:

$$h^h = \alpha_1 \ln w^h + \alpha_2 \ln w^p + \alpha_3 y + \gamma_1 y_diff + \gamma_2 age_diff + \delta X + \varepsilon^h$$

$$h^p = \beta_1 \ln w^h + \beta_2 \ln w^p + \beta_3 y + \lambda_1 y_diff + \lambda_2 age_diff + \psi X + \varepsilon^p$$

y_diff and age_diff are the two bargaining power factors under consideration. The former is defined as the head's total non-labor income in dollars minus the partner's total non-labor income in dollars, while the latter as the head's age in years minus the partner's age in years (for heterosexual couples, it is the male mate/spouse's trait minus the female mate/spouse's trait⁵).

⁵ Heterosexual mates are distinguished according to their gender. As customary in studies of heterosexual households, the emphasis is on the role and behavior of male members versus female members, rather than on the Census definition of head and unmarried partner/spouse, where the head is the individual who owns the housing unit or signs the rental contract, and the partner/spouse is the individual who identifies himself/herself as such.

Both the individual non-labor income and age variables do not have any missing values and their differences can be either positive or negative, or zero⁶.

My identification strategy of these bargaining power effects consists of estimating γ_1 and γ_2 for heads, and λ_1 and λ_2 for partners. The impact of the non-labor income (age) difference on the labor supply of heads and partners is captured by γ_1 and λ_1 (γ_2 and λ_2) respectively. According to the theory, if a partner is relatively richer, or being relatively young is a favorable trait, then his/her labor supply should decline and the labor supply of his/her mate should increase. Hence, γ_1 and λ_2 should be negative, while γ_2 and λ_1 should be positive.

The other regressors are the wage rate w^i of each mate $i = h, p$, the couple's total non-labor income y^7 , and a vector of covariates X . X includes education of each partner, number of each partner's own children living in the household, and only own age of mate i , so that the effect of

⁶ The ratio of non-labor incomes and the ratio of ages were used as alternative distribution factors. However, the former is not defined for the several couples with no non-labor income, and they both introduce non-linearities in the labor supply equations. Even though the ratios yield the same pattern of bargaining power effects, the differences of non-labor incomes and ages are preferred in this analysis (as in Browning et al., 1994). The difference (ratio) in educational attainment across partners was also explored, but it did not exhibit any impact on household labor supplies, as in Browning et al. (1994).

⁷ All wage and income variables refer to the previous year (1999). I discard individuals who are self-employed, so that wages only reflect income from wages and salaries, and non-labor income is constructed as the individual's total income minus earned income, where earned income coincides with wage income for non-self employed.

age_diff can be identified. A dummy variable for being black rather than white is also included at the household level, since I drop the few interracial unions present in my samples, and my main specifications focus on black or white couples⁸. X also includes state fixed effects, which should capture the different labor market opportunities and social and legal attitudes toward gays and lesbians that exist across states. Alternatively, I include the state unemployment rate, the state total labor force participation and female labor force participation, to control for the level of economic activity in a state and especially for employment opportunities, and dummy variables for the presence in a state of legal provisions for homosexual couples, such as domestic partnerships and civil unions.

The dependent variable in my labor supply regressions is total annual hours worked in the previous year. Households in which either the head or the partner does not work are also included in my samples and I account for a possible selection bias toward working individuals by correcting for sample selection with Heckman MLE⁹. As a source of identification, I use distributional assumptions on the first step residuals alone or exclusion restrictions¹⁰. Both procedures yield similar robust results. I use predicted wages to measure the non-working mates' wages and to address the possible endogeneity of individuals' observed wages. To predict individuals' wages, I take a standard human capital approach, also implemented in the collective labor supply literature (e.g., Donni, 2007), and consider a wage equation in which wage depends

⁸ Including other races such as Asians does not alter my bargaining power estimates.

⁹ I only exclude household observations where neither the head nor the partner work, given that this analysis measures bargaining power changes through labor supply.

¹⁰ The latter is young children only affecting the participation decision but not labor supply.

Tables report estimation with identification from statistical distribution assumptions.

on the individual's age, race, education, education squared, and cubed, but does not depend on his/her partner's characteristics. This equation is then estimated separately for participating gays, lesbians, heterosexual male cohabitants, heterosexual female cohabitants, husbands, wives, male and female roommates, in my samples, with a correction for selection bias¹¹. The generated fitted values then replace the wage observations of the corresponding individuals in my samples¹². Finally, Wald tests of overall statistical significance performed on the above labor supply regressions do not reject the validity of the framework I use.

The labor supply regressions are run using robust standard errors clustered by state, which allow for correlation of household observations within state. I alternatively clustered by metropolitan area, even though a metropolitan area has not been assigned to almost a third of the observations¹³. My specifications do not use a differences-in-differences estimator: heads' and partners' regressions are estimated separately, across types of couples. As such, they should not suffer from the understated standard errors highlighted by Bertrand, Duflo, and Mullainathan (2004). At any rate, clustering by state (metropolitan area) should rectify such an underestimation, if it is present.

¹¹ The participation decision depends on the number of children, dummies for age brackets, education, race and measures of local economy.

¹² Tables report estimation with the predicted partner/spouse's and own wages.

¹³ The Census reports that many metropolitan areas have only been partially identified in 2000, and that "users should not assume that the identified portion of a partly-identified metropolitan area is a representative sample of the entire metropolitan area". Thus my main specifications are clustered by state.

III.II Additional Tests

The collective labor supply framework provides additional testable restrictions on the impact of the non-labor income and age differences on mates' labor supplies, and on how the sharing rule varies with the distribution factors, non-labor income, and wages of each mate, as illustrated in Section II. Specifically, I test the following interaction among the coefficients of the partners' labor supply equations:

$$\frac{\gamma_1}{\gamma_2} = \frac{\lambda_1}{\lambda_2},$$

for each type of couples, lesbian, gay, and heterosexual. I also use the following conditions on their labor supply coefficients to obtain the corresponding sharing rule equation:

$$\varphi_y = \frac{\alpha_3 \cdot \lambda_1}{\Delta}; \varphi_{w_h} = \frac{\beta_1 \cdot \gamma_1}{\Delta}; \varphi_{w_p} = \frac{\alpha_2 \cdot \lambda_1}{\Delta}; \varphi_{s_i} = \frac{\gamma_i \cdot \lambda_1}{\Delta} \forall i = 1,2$$

where $\Delta = \lambda_1 \alpha_3 - \gamma_1 \beta_3$ and s_1 and s_2 are the non-labor income difference and age difference, respectively. Solving the above system of differential equations yields the following sharing rule equation:

$$\varphi = \frac{1}{\Delta} (\beta_1 \gamma_1 \ln w_h + \alpha_2 \lambda_1 \ln w_p + \alpha_3 \lambda_1 y + \gamma_1 \lambda_1 y_{diff} + \gamma_2 \lambda_1 age_{diff}) + k(z)$$

identifiable up to an additive term $k(z)$, since z affects both the sharing rule and the preferences (Chiappori et al, 2002). All these conditions are tested and recovered through my estimation of the coefficients of the partners' labor supply equations.

III.III Data

Estimation is carried out on Census data for the year 2000, specifically the five-percent sample of the Public Use Microdata Set (PUMS), which provides the most recent largest sample

of gay and lesbian partners and their detailed demographic, labor and income information, along with standard samples of heterosexual individuals. Unmarried “heads” and “unmarried partners”, “heads” and “roommates”, and a random sample (10 percent) of married “heads” and “spouses” were extracted from the Census. Records in these files were then matched on the household identification code “serial” to create a single observation for each couple. All individuals with imputed values for sex, marital status, and relationship to the head of the household were excluded from my samples (subsection V.IV explains the relevance of this procedure). Couples with the head and the partner sharing the same gender were then identified as same-sex couples, gay and lesbian. In the Census, gays and lesbians are identified by their cohabiting relationship, a household being recorded as a same-sex union if the “relationship to head” is specified as “unmarried partner”, so that single gays or lesbians can not be recovered. This limitation represents a lesser concern here, because my analysis applies to couples. However, most economic studies on homosexuals use Census data, of 1990 or 2000. Others (e.g. Black et al., 2003, Blandford, 2003) use the General Social Survey (GSS) data, where single gays and lesbians can be identified, but the sample size is much smaller than in the Census data, and sexual orientation is inferred from self-reported sexual activity.

Individual weights are used to make the sample representative of the US population and economy. The state unemployment rate, state total labor force participation and female labor force participation are retrieved from the Bureau of Labor Statistics.

Table 1 presents the descriptive statistics for the heads’ and partners’ main variables, by type of couple. In the same-sex samples, gays and lesbians on average work similar annual hours, earn a similar hourly wage, and their education and age are also comparable. However, within both gays and lesbian couples, heads work more hours than their partners, earn a higher

wage, and are slightly more educated and older. On average, the age difference is about .83 for lesbians and 1.57 years for gays, and the non-labor income difference is around \$ 1,765 for gays and \$ 880 for lesbians. Heterosexual couples exhibit a higher annual labor supply and wage for male than female mates, with the stronger disparity within married couples, while their educational attainment is lower than same-sex couples (lowest for heterosexual cohabiting). Husbands (male mates) are on average 2.14 (1.71) years older than their wives (female mates), and their average non-labor income difference amounts to \$ 2,898 (35.16). Pairs of roommates exhibit very similar labor supply and wage patterns between mates, who also share the same education level. Their average age and income differences are 1.24 and \$ 892 in female pairs, and 1.28 and \$ 1043 for male roommates.

IV. Results

IV.I Main Evidence

The main results are shown in **Tables 2** and **3**. The estimated effects of the non-labor income difference and age difference are significant for both heads and partners, and their signs go in the direction predicted by the theory. The point estimates indicate that in lesbian couples (columns 1 and 2 of **Table 2**) being 5 years younger reduces the younger heads' annual labor supply by about 23 hours (P value = .045), while their partners' is increased by 35 hours (P value = .072). As to the other bargaining power variable, owning five thousand dollars more non-labor income implies a decline in heads' labor supply of 19 hours (P value = .043), and an increase in their partners' of 47 hours per year (P value = .002). Gay couples exhibit a similar impact (columns 3 and 4 of **Table 2**). Their estimated coefficients correspond to -23 and 37 heads' and partners' hours worked for a five year younger head (P values .088 and .02), while the impact of

a five thousand dollar income gap amounts to -32 and 41 annual hours worked by heads and partners, respectively (P values .004 and .031). The evidence clearly shows that all same-sex couples exhibit statistically significant responses to bargaining power forces. The younger (richer) partner holds a more favorable bargaining position and lowers his/her labor supply, while his/her mate increases his/her labor supply. Moreover, these labor supply responses are not statistically different between gay and lesbian couples. As reported in columns 5 and 6 of **Table 2**, the heterosexual cohabiting sample exhibits a similar pattern of effects to homosexual households. Married couples differ from all types of cohabiting households in that they attribute more bargaining power to the older spouse, and the magnitude of the effects of the income and age differences is smaller, especially for females (columns 11 and 12 of **Table 2**). Specifically, heterosexual cohabiting couples' labor supply effects of a five year age difference are -18 and 20 hours, while a \$ 5,000 income difference generates an estimated hour change of -21 and 27 hours for male and female mates, respectively. For husbands and wives, the corresponding age and income effects amount to 15 and -7 hours, and -17 and 14 hours.

These estimated bargaining power forces and labor supply responses are sizable, corresponding to several days of work a year. The concurrent impact on both partners, and with opposite outcomes, is remarkable given the acknowledged rigidities in the labor supplies, and the frequency of the reported labor supply peaking around 40 hours of work per week. Traditional analyses do not emphasize changes by both spouses, let alone their labor supply responding to bargaining power forces. Moreover, no study finds that same-sex households' labor supply decisions reflect the collective household behavior of heterosexual couples and are influenced by bargaining factors such as non-labor income ownership and age. The intra-household decision process does not appear to vary by sexual orientation. These findings also show that income

pooling does not hold for either heterosexual or same-sex couples. So far, the income pooling hypothesis and the unitary model prediction that bargaining power forces are irrelevant to intra-household decisions had been empirically rejected only for heterosexual households (Browning et al., 1994, Schultz, 1990, Thomas, 1990).

As to the age gap, in both same-sex and opposite-sex cohabiting couples, the younger mate exhibits more bargaining power, while married couples are found to value being relatively old, controlling for wages and education of each partner and individual age. This evidence on married households corresponds to what is found in the literature, where the spouses' age difference is considered a traditional measure of bargaining power, and the older spouse, not the younger, has a favorable position (e.g. Browning et al., 1994, Lyons, Neelakantan, Fava, 2008). These studies focus on household expenditures and financial decisions of married couples, and do not control for wages, hours worked, or actual earnings, so that being older also captures higher earning capacity and labor market opportunities, which are associated to more bargaining power. However, I show that once individual labor market characteristics are disentangled from age and specifically controlled for, married couples still value being relatively old, while relative youth enhances bargaining power in all cohabiting relationships, across sexual orientations.

These results also match the evidence from psychological studies on family relationships. Patterson (2000) reports that the partner with greater financial resources tends to have more power within the couple, in both homosexual and heterosexual unions. Moreover, no difference in break-up rates is found between lesbian and gay couples, with only married couples exhibiting a lower dissolution rate (Caldwell and Peplau, 1984, Kurdek, 1998, Patterson, 2000). The more stable and durable relationship of married couples may make spouses less responsive to outside opportunities and bargaining power. This would explain why in all cohabiting relationship I find

that the younger partner has more bargaining power, since cohabitants have lower barriers to leave and younger individuals have better outside options. The signal conveyed by relative youth about the quality of outside opportunities may be more relevant for cohabiting rather than married couples, and represent a more credible threat, because the former are aware that their household is less stable, lacking the commitment of legal marriage (Kurdek, 1998). In married couples, the life experience, knowledge and maturity of the older spouse play an important role of guidance in the stability of the relationship and are valued by the younger spouse (Fava et al., 2008). Jepsen and Jepsen (2002) as well find that same-sex couples are more similar to cohabiting than to married opposite-sex couples. Finally, wives' smaller bargaining power effects may be also due to stronger rigidities in their labor supply schedules. The more common presence of children within marriage than in cohabiting couples, and especially than in same-sex couples¹⁴, may make spouses, and wives in particular, less likely to respond to bargaining power in terms of labor supply shifts.

As to the other covariates in the labor supply equations, most parameter estimates for all couples are comparable to the literature. In particular, the mates' own wage response is always positive significant, as is the cross-wage effects between mates' labor supplies (**Table 3**). The couple's total non-labor income and own age have a negative effect on labor supply, while education has a positive impact, although the coefficients are not always precisely estimated. Being black is associated with fewer hours of work, as own household children, except for heterosexual male mates for whom children have a positive effect on labor supply. This is mostly in line with the findings in the family labor supply literature. For instance, Chiappori et al.

¹⁴ In my samples, the average number of household children is 1.29 in married couples, .90 in heterosexual cohabiting couples, and .40 and .23 in lesbian and gay couples.

(2002) run similar spouses' labor supply equations and show positive significant cross wage effects, negative own age estimates and positive significant own wage effects for wives.

The bargaining power effect is also estimated on pairs of male and female roommates. The results are detailed in columns 7 to 10 of **Table 2**. Their labor supply regressions show no significant impact of either the income or age differences, as theory predicts. This lack of impact on roommates strengthens my bargaining power interpretation of the labor supply responses of same-sex and opposite-sex couples'. Finally, the disparity between same-sex couples' and roommates' behavior confirms that the sample of same-sex couples is indeed formed by homosexual partners rather than by roommates who wrongly identify themselves as "unmarried partners".

These findings represent the first empirical support for the labor supplies of gay and lesbian households to be affected by bargaining power forces, and emphasize that same-sex household decision making reflect heterosexual households' behavior, more closely to cohabiting than married couples. Bargaining power is found to be positively related to non-labor income ownership in all types of couples, whereas relative youth increases bargaining power in all cohabiting couples but decreases it in married couples.

Further evidence presented below, together with the discussion of various alternative explanations, should help making my results convincing and contribute to the understanding of the economic behavior of gay and lesbian families.

IV.II Additional Findings

I test the restrictions on the proportionality of the partners' labor supply responses to the non-labor income and age differences, and I recover the estimated effects of non-labor income,

mates' wages and the two bargaining power factors on the sharing rule, as illustrated in sections II and III.II.

Results are presented in **Table 4** and **Table 5**. As predicted by the theory (the condition $h_y^h \cdot h_y^p \neq 0$ holds in my samples), the ratios of the coefficients on *y_diff* and *age_diff* are not statistically different across mates, and this proportionality holds for all types of couples, as shown in **Table 4**. **Table 5** reports the estimated parameters of the sharing rule. In lesbian couples, a five years age gap (a \$ 5,000 non-labor income gap) will induce the older (poorer) partner to transfer an additional \$ 1915 (\$ 1560) of the couple's non-labor income to the younger (richer) partner. In gay couples, these figures correspond to transfer an additional \$ 1515 (\$ 2100) of income to the younger (richer) partner. In heterosexual cohabiting couples, a more favorable bargaining position increases the younger (richer) partner's share of income by \$ 1360 (\$ 1600), while in married couples being 5 years older (\$ 5,000 richer) corresponds to an increase in \$ 865 (980) of the older (richer) spouse's share. These findings suggest that bargaining power forces do affect the intra-household allocation of resources, of same-sex couples as well. **Table 5** also shows that earning higher wages translates into the transfer of more non-labor income to the higher earner, and that a \$ 1.00 increase in the couple's total non-labor income increases the head's share of household non-labor income by 70 cents for lesbians, 34 cents for gay couples, 54 cents for cohabiting and 38 cents for married couples.

Distribution factors have sizable effects on same-sex households' decisions. The unitary model prediction that bargaining power forces are irrelevant to intra-household decisions, and the income pooling hypothesis, are rejected for all households alike, homosexual or heterosexual, cohabiting or married.

V. Alternative Explanations

The predicted opposite labor supply effects on both mates, the lack of any impact on roommates, and the proportionality restrictions are very unlikely to hold unless my bargaining power explanation and the collective household approach are correct and applicable to same-sex couples. Furthermore, I argue that the following phenomena cannot consistently explain my results, given my intra-household bargaining predictions and empirical evidence.

V.I Bargaining power variables as proxies for local labor market conditions and attitudes toward gays and lesbians

It may be possible that the labor supply of the younger or richer homosexual partner falls not as a result of the bargaining power effect, but due to poor local economic opportunities and/or unfriendly attitudes toward gays or lesbians. Similarly, it could be that younger and richer heterosexual women work less, and their male partners work more, because they face worse job opportunities than men. There are at least three reasons to believe that the local economy and attitude hypothesis does not provide a plausible alternative explanation for my findings. First, my labor supply regressions include individuals' wages and education, own age, and state fixed effects (alternatively, state unemployment rate, total and female labor force participation rate, and dummy variables for state legal provisions for homosexual couples) which account for the variation in labor market opportunities and attitudes. My findings are also robust to adding individual controls for occupation categories in my labor supply regressions. Second, the predicted labor supply changes have a distinctive opposite impact on the members of each type of couple. It is difficult to understand why the labor supply of a gay or lesbian individual should be lower while his/her partner is higher, when they share the same gender and sexual orientation,

and thus the same labor market conditions and potential earnings discrimination. Third, gay and lesbian workers exhibit an opposite earnings differential with respect to their heterosexual counterparts, lesbians earning significantly more than heterosexual women, and gay men earning significantly less than heterosexual men (Allegretto and Arthur, 2001, Black et al., 2003, Jepsen, 2007). If it were a gender effect, labor market conditions would not explain my findings of a same pattern of results for gays, lesbians and heterosexuals alike. Finally, pairs of male and female roommates do not exhibit any labor supply effect of age and income differences, while sharing the same gender and labor market characteristics as homosexual couples. As to heterosexual couples, it is hard to reconcile with labor market disparities the opposite effect of relative age on cohabiting and married individuals, when they share the same gender, sexual orientation and similar age, wage and education profiles.

V.II Age, non-labor income and labor supply

Controlling for own age and wage, the age difference between mates should not capture an individual's marginal utility of leisure and affect his/her labor supply through this channel. However, younger cohabitants do not work less than older or married workers, as instead my bargaining power effects show. Matching preferences either do not provide a plausible alternative explanation for my findings. Older individuals may prefer to have a partnership with younger persons, but this youth value does not translate into a lower preference for leisure. Matching with younger individuals does not necessarily affect the marginal utility from leisure making the older partner work more. Actually, the opposite may be more likely, the younger your companion is, the more you value leisure and the less you work. On the other hand, if an

older partner needs to work more hours to earn more income to “buy” a relationship with a younger partner, then this exactly illustrates the bargaining power effect at stake in this study¹⁵.

The same reasoning holds for non-labor income differences. In particular, if non-labor income is endogenous to labor supply choices, then it is likely that high non-labor income suggests high labor supply. If an individual’s disutility from work is low, he/she works many hours and as a result owns a high non-labor income. However, this endogeneity bias can not explain my findings since it would predict more hours of work with higher income, whereas my bargaining power effects predict that higher non-labor income differences lead to lower labor supply, and roommates do not exhibit any labor supply impact. Finally, non-labor income has been treated as an exogenous measure of bargaining power by the literature (Browning et al, 1994 and Thomas, 1990).

V.III Household specialization

Bargaining power variables such as income and age difference may somewhat capture differential productivity in household production. However, controlling for own age, and education and wages of both mates, should ensure that comparative advantage and household productivity is disentangled from my bargaining power measures. Besides, there is no specific economic reason why the younger partner should specialize in household production and work less, while the older partner works more in the labor market, married couples exhibiting the opposite pattern. A similar argument holds for non-labor income ownership. Being relatively richer does not imply being more productive at home and working less in the labor market. Also,

¹⁵ The same, reversed, argument holds for married couples, for whom being relatively old is the favorable trait.

this specialization pattern would not necessarily be present in all types of couples, gay, lesbian and heterosexual alike. Finally, the literature emphasizes the specialization effect mainly for married heterosexual couples, while most of my samples consist of unmarried couples, including homosexuals.

V.IV Misreporting of same-sex partners in the Census data

The Census identifies same-sex partners by their cohabiting relationship with an individual of the same gender who records his/her “relationship to the head of the household” as “unmarried partner”. Unfortunately, the 2000 Census modified the relationship to head from “spouse” to “unmarried partner” and/or the marital status from married to unmarried, for couples with both mates of the same sex, without signaling the allocated values in the flag variable of relationship to head. As documented in Black et al. (2006), this procedure lead to consider several heterosexual married couples as same-sex couples who wrongly reported their sex or relationship to head. To avoid this misclassification, all individuals with imputed values for marital status, sex, and relationship to head were excluded from my samples, using the corresponding “q” variables which flag allocated values, as suggested by Black et al. (2006) and Jepsen and Jepsen (2002). Overall, more than forty percent of same-sex couples are dropped because of these imputed values, whereas only very few heterosexual couples are affected (four percent of cohabitants and less than one percent of married couples). This process ensures that the same-sex couples at stake are real homosexual partnerships, rather than heterosexuals misreporting their gender or relationship to head, although homosexuals who wrongly identify themselves as married are also dropped (by year 2000, no US state had legalized same-sex

marriages) ¹⁶. The concern that sentimentally un-related individuals voluntarily identify themselves as unmarried partners (rather than roommates) is minimal, given the stigma attached to homosexuality. However, both of these last two instances of mis-reporting would work against my findings of same-sex couples behaving as heterosexual families. Finally, sexual orientation is inferred from self-reported data and under-reporting of homosexual status (identifying as “unmarried partner”) may be correlated with demographic characteristics such as education and income. At any rate, there is no reason why mis-reporting is more severe in the Census than in the other smaller homosexuals’ data sets, and in principle it may occur in many data sets and variables.

VI. Conclusions

This is the first study of same-sex couples’ labor supplies as an endogenous household choice, and the first empirical support for gay and lesbian households’ labor supplies to be affected by bargaining power forces, in the direction predicted by the theory for heterosexual households. In particular, I show that gay and lesbian couples do behave as heterosexual couples, their labor supplies being responsive to differences in age and non-labor income between partners. At the same time, no effect is found on same-sex pairs of roommates, consistently with the household bargaining interpretation.

Using 2000 US Census data, I find that each gay and lesbian partner’s labor supply is negatively related to their level of bargaining power. Specifically, a relatively lower age (higher non-labor income) significantly reduces the younger (richer) partner’s labor supply, while it

¹⁶ Including the observations with Census-allocated marital status yields very similar patterns of bargaining power effects, at higher significance levels.

significantly increases the labor supply of his/her relatively older (poorer) mate, controlling for both partners' wages, education and other individual and household characteristics. Results are similar for gay, lesbian and heterosexual cohabiting couples alike. Married couples attribute a more favorable position to the older spouse, or the richer, with significant but somewhat smaller bargaining power effects. Additionally, I cannot statistically reject the proportionality constraints on the partners' labor supply responses to the two bargaining power factors, as predicted by the collective household labor supply model. Finally, the sharing rule with which partners divide their household non-labor resources is recovered, highlighting that a favorable age difference and/or non-labor income difference increases a mate's allocated income share, in all types of couples.

References

1. Allegretto, S., Arthur, M.M. (2001), “An empirical analysis of homosexual/heterosexual male earnings differentials: unmarried and unequal?”, *Industrial and Labor Relations Review*, 54-3, 631-646
2. Becker, G. (1991), “A Treatise on the Family”, *Harvard University Press*
3. Bertrand, M., Duflo, E., and Mullainathan, S. (2004), “How Much Should We Trust Differences-in-Differences Estimates? ”, *Quarterly Journal of Economics*, 119-1, 249-275
4. Black, D.A., Sanders, S.G., Taylor, L.J. (2007), “The Economics of lesbian and gay families”, *Journal of Economic Perspectives*, 21-2, 53-70
5. Black, D.A., Gates, G, Sanders, S.G., Taylor, L.J. (2006), “The measurement of same-sex unmarried partner couples in the 2000 US Census”, mimeo
6. Black, D.A., Makar, H., Sanders, S.G., Taylor, L.J. (2003), “The effects of sexual orientation on earnings”, *Industrial and Labor Relations Review*, 56-3, 449-469
7. Black, D.A., Gates, G, Sanders, S.G., Taylor, L.J. (2000), “Demographics of the gay and lesbian population in the US: evidence from available systematic data sources”, *Demography*, 37-2, 139-154
8. Blandford, J.M. (2003), “The nexus of sexual orientation and gender in the determination of earnings”, *Industrial and Labor Relations Review*, 56-4, 622-642
9. Browning, M., Bourguignon, F., Chiappori, P.-A., Lechene, V., (1994), “Income and outcomes: a structural model of intra-household allocation”, *Journal of Political Economy*, 102, 1067-1096

10. Browning, M., Chiappori, P.-A. (1998), "Efficient intra-household allocations: a general characterization and empirical tests", *Econometrica*, 56, 1241-1278
11. Caldwell, M.A., Peplau, L.A. (1984), "The balance of power in lesbian relationships", *Sex Roles*, 10-7/8, 587-599
12. Chiappori, P.-A, Fortin, B. and G. Lacroix (2002), "Marriage Market, divorce legislation, and household labor supply", *Journal of Political Economy*, 110-1, 37-72
13. Donni, O. (2007), "Collective female labor supply: theory and application", *Economic Journal*, 117-516, 94-119
14. Grossbard-Shechtman, S. (1993), "On the economics of marriage. A theory of marriage, labor and divorce", *Westview Press*
15. Kurdek, L.A. (1998), "Relationship outcomes and their predictors: longitudinal evidence from heterosexual married, gay cohabiting, and lesbian cohabiting couples", *Journal of Marriage and the Family*, 60-3, 553-568
16. Jepsen, L. (2007), "Comparing the earnings of cohabiting lesbians, cohabiting heterosexual women, and married women: evidence form the 2000 Census", *Industrial and Labor Relations Review*,
17. Jepsen, C. and Jepsen, L. (2006), "The sexual division of labor within households: comparisons of couples to roommates", *Eastern Economic Journal*, 32-2, 299-312
18. Jepsen, L. and Jepsen, C. (2002), "An empirical analysis of the matching patterns of same-sex and opposite-sex couples", *Demography*, 39-3, 435-453
19. Lyons, A, Fava, A, Neelakantan, U. (2008), "Household bargaining and portfolio choice", mimeo, University of Illinois at Urbana-Champaign

20. Lundberg, S., Pollak, R. (1996), "Bargaining and distribution in marriage", *Journal of Economic Perspectives*, 10-4, 139-158
21. Oreffice, S. (2007), "Did the legalization of abortion increase women's household bargaining power? Evidence from labor supply", *Review of Economics of the Household*, 5-2, 181-207
22. Patterson, C.J. (2000), "Family relationships of lesbians and gay men", *Journal of Marriage and the Family*, 62, 1052-1069
23. Schultz, T.P. (1990), "Testing the neoclassical model of family labor supply and fertility", *Journal of Human Resources*, 25, 599-634
24. Tebaldi, E., Elmslie, B. (2006), "Sexual orientation and labour supply", *Applied Economics*, 38-5, 549-562
25. Thomas, D. (1990), "Intra-Household Resource Allocation: An Inferential Approach", *Journal of Human Resources*, 25, 635-664

Table 1. Summary Statistics

| Variable | Lesbian Couples | | | | Gay Couples | | | | Heterosexual Cohabiting Couples | | | |
|-----------------------------|------------------------|----------|-----------------|----------|--------------------|----------|-----------------|----------|--|----------|---------------------|----------|
| | Heads | | Partners | | Heads | | Partners | | Male Mates | | Female Mates | |
| | mean | std. dev | mean | std. dev | mean | std. dev | mean | std. dev | mean | std. dev | mean | std. dev |
| Age_diff | 0.83 | 6.72 | 0.83 | 6.72 | 1.57 | 7.92 | 1.57 | 7.92 | 1.71 | 6.6 | 1.71 | 6.6 |
| Y_diff | 880.4 | 11380 | 880.4 | 11380 | 1765 | 19971 | 1765 | 19971 | 35.16 | 12695 | 35.16 | 12695 |
| Hours worked* | 2069 | 537.06 | 1990.1 | 567.66 | 2185 | 615.72 | 2065.1 | 615.88 | 1958.6 | 837.64 | 1663 | 855.75 |
| Log of wage* | 3.02 | 0.35 | 2.35 | 0.68 | 3.09 | 0.31 | 2.37 | 0.64 | 2.87 | 0.28 | 2.01 | 0.64 |
| Age | 38.42 | 9.03 | 37.6 | 8.98 | 41.17 | 8.88 | 38.66 | 9.19 | 39.22 | 9.45 | 37.51 | 9.03 |
| Education | 14.4 | 2.33 | 14.12 | 2.36 | 14.63 | 2.19 | 14.22 | 2.27 | 12.73 | 2.2 | 12.93 | 2.12 |
| Couple's non-labor income Y | 3799 | 12340 | 3799 | 12340 | 6809 | 21461 | 6809 | 21461 | 4072 | 13628 | 4072 | 13628 |
| Number of children | 0.36 | 0.78 | 0.056 | 0.28 | 0.12 | 0.51 | 0.11 | 0.14 | 0.351 | 0.825 | 0.54 | 0.959 |
| Dummy for black | 0.08 | 0.27 | 0.08 | 0.27 | 0.05 | 0.22 | 0.05 | 0.22 | 0.16 | 0.36 | 0.16 | 0.36 |
| Number of observations | 2950 | | 2950 | | 2588 | | 2588 | | 68762 | | 68762 | |

| Variable | Female Roommates | | | | Male Roommates | | | | Heterosexual Married Couples | | | |
|-----------------------------|-------------------------|----------|-----------------|----------|-----------------------|----------|-----------------|----------|-------------------------------------|----------|--------------|----------|
| | Heads | | Partners | | Heads | | Partners | | Husbands | | Wives | |
| | mean | std. dev | mean | std. dev | mean | std. dev | mean | std. dev | mean | std. dev | mean | std. dev |
| Age_diff | 1.24 | 7.24 | 1.24 | 7.24 | 1.28 | 7.24 | 1.28 | 7.24 | 2.14 | 4.46 | 2.14 | 4.46 |
| Y_diff | 891.9 | 12418 | 891.88 | 12418 | 1044 | 12249 | 1044 | 12249 | 2898 | 17062 | 2898 | 17062 |
| Hours worked* | 1989 | 636.04 | 1936 | 649.81 | 2081 | 671.75 | 2023 | 675.4 | 2108 | 788 | 1318 | 951 |
| Log of wage* | 2.81 | 0.26 | 2.72 | 0.25 | 2.85 | 0.29 | 2.76 | 0.24 | 3.18 | 0.36 | 1.96 | 0.88 |
| Age | 35.54 | 11.79 | 34.3 | 11.57 | 32.96 | 10.48 | 31.68 | 9.65 | 44.09 | 10.48 | 41.95 | 10.2 |
| Education | 14.24 | 2.33 | 14.04 | 2.32 | 13.68 | 2.31 | 13.43 | 2.3 | 13.43 | 2.48 | 13.35 | 2.28 |
| Couple's non-labor income Y | 4482 | 15284 | 4482 | 15284 | 3524 | 13907 | 3524 | 13907 | 5926 | 19699 | 5926 | 19699 |
| Number of children | 0.213 | 0.62 | 0.025 | 0.2 | 0.036 | 0.245 | 0.003 | 0.06 | 1.29 | 1.2 | 1.29 | 1.2 |
| Dummy for black | 0.06 | 0.24 | 0.06 | 0.24 | 0.06 | 0.24 | 0.06 | 0.24 | 0.08 | 0.27 | 0.08 | 0.27 |
| Number of observations | 8480 | | 8480 | | 9657 | | 9657 | | 96650 | | 96650 | |

Data from the U.S. Census year 2000, five percent sample of the Public Use Microdata Set (PUMS).

Age_diff (Y_diff) is defined as head's age (total non-labor income) minus partner's age (total non-labor income).

In heterosexual couples, it is the male mate's trait minus the female mate's trait.

*For women and men with positive hours of work.

Table 2. Labor Supply Effects of Age and Non-Labor Income differences on Lesbian, Gay, Heterosexual Cohabiting and Married Couples

| | <u>Lesbian Couples</u> | | <u>Gay Couples</u> | | <u>Heterosexual Cohabiting Couples</u> | |
|------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|--|----------------------------|
| | <u>Heads</u> (1) | <u>Partners</u> (2) | <u>Heads</u> (3) | <u>Partners</u> (4) | <u>Male Mates</u> (5) | <u>Female Mates</u> (6) |
| Age_diff | 4.61 ** (2.30) | -6.97 *** (3.88) | 4.67 *** (2.74) | -7.48 ** (3.21) | 3.57 *** (.52) | -3.94*** (.454) |
| Y_diff | -.0037 ** (.0018) | .0095 * (.0031) | -.0065 * (.0022) | .0081 ** (.0038) | -.0042 *** (.0006) | .0053*** (.0007) |
| Number of observations | 2950 | 2950 | 2588 | 2588 | 68762 | 68762 |
| | <u>Female Roommates</u> | | <u>Male Roommates</u> | | <u>Heterosexual Married Couples</u> | |
| | <u>Heads</u> (7) | <u>Partners</u> (8) | <u>Heads</u> (9) | <u>Partners</u> (10) | <u>Husbands</u> (11) | <u>Wives</u> (12) |
| Age_diff | 3.44 (3.56) | -0.875 (1.87) | 3.01 (2.68) | 2.15 (2.01) | -3.003 *** (.608) | 1.43** (.688) |
| Y_diff | .0007 (.0006) | .0002 (.0006) | -.0011 (.009) | -.001 (.0009) | -.0034 *** (.0004) | .0028*** (.0008) |
| Number of observations | 8480 | 8480 | 9657 | 9657 | 96650 | 96650 |

Data from the U.S. Census year 2000, five percent sample of the Public Use Microdata Set (PUMS).

* ; ** ; *** significant at 10 % , 5% and 1 % . Estimated coefficients, standard errors (in parenthesis) clustered by state.

Regressions run with the covariates described in Section III. Regressions are corrected for sample selection with Heckman MLE.

Age_diff (Y_diff) is defined as head's age (total non-labor income) minus partner's age (total non-labor income).

For heterosexual couples, it is the male mate's trait minus the female mate's trait.

Table 3. Estimation of the Labor Supply Regressions of Lesbian, Gay, Heterosexual Cohabiting and Married Couples

| | Lesbian Couples | | Gay Couples | | Heterosexual Cohabiting Couples | | Heterosexual Married Couples | |
|-------------------------------|------------------|------------------|-----------------|-----------------|---------------------------------|------------------|---|------------------|
| | Heads | Partners | Heads | Partners | Male | Female | Husbands | Wives |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| Age_diff | 4.61 ** | -6.97 *** | 4.67 *** | -7.48 ** | 3.57 *** | -3.94 *** | -3.003 *** | 1.43 ** |
| | (2.30) | (3.88) | (2.74) | (3.21) | (.521) | (.454) | (.608) | (.688) |
| Y_diff | -.0037 ** | .0095 * | -.0065 * | .0081 ** | -.0042 *** | .0053 ** | -.0034 *** | .0028 *** |
| | (.0018) | (.0031) | (.0022) | (.0038) | (.0006) | (.0007) | (.0004) | (.0008) |
| Couple's non-labor income Y | -.0086 *** | -.0085 ** | -.0052 *** | -.0128 *** | -.007 *** | -.0076 *** | -.0066 *** | -.0087 *** |
| | (.0015) | (.0035) | (.0018) | (.0032) | (.0004) | (.0005) | (.0004) | (.0008) |
| Log of wage of head | 175.20 *** | 558.17 ** | 270.83 *** | 217.27 | 172.94 *** | 194.39 *** | 161.62 *** | 179.49 *** |
| | (57.05) | (285.06) | (61.08) | (235.95) | (40.29) | (36.23) | (30.99) | (43.89) |
| Log of wage of partner | 171.98 | 151.71 *** | 310.98 | 104.62 *** | 92.37 *** | 590.57 ** | 192.06 *** | 137.83 *** |
| | (73.09) ** | (22.92) | (423.69) | (26.04) | (17.26) | (283.88) | (38.08) | (32.23) |
| Own Age | -1.81 | -4.92 | -6.09 ** | -4.75 | -6.20 *** | 0.35 | -7.49 *** | -3.07 |
| | (2.31) | (4.05) | (2.49) | (3.66) | (.678) | (.485) | (.71) | (.598) |
| Education of head | 68.02 ** | 176.70 * | -91.83 ** | -15.25 | 17.47 *** | 4.22 | 10.5 *** | -42.78 *** |
| | (21.99) | (105.56) | (39.74) | (31.71) | (3.79) | (6.16) | (3.44) | (7.29) |
| Education of partner | 125.53 | -6.27 | 10.67 * | 14.02 | -82.81 *** | 38.28 | -90.60 *** | 46.87 ** |
| | (90.64) | (12.10) | (25.86) | (14.63) | (16.43) | (26.94) | (11.61) | (20.64) |
| Number of children of head | -45.40 *** | -50.58 *** | -17.53 | -33.68 | 22.17 *** | -83.86 *** | 18.46 *** | -110.00 *** |
| | (15.43) | (13.43) | (41.07) | (31.51) | (4.83) | (4.27) | (2.09) | (4.77) |
| Number of children of partner | 71.42 * | -16.54 | 32.46 *** | -116.08 | -22.73 *** | -32.98 *** | dropped because same as number of head's children | |
| | (43.73) | (48.47) | (91.61) | (139.93) | (3.29) | (4.54) | | |
| Dummy for Black | -117.43 *** | -108.35 ** | -173.89 *** | -214.40 ** | -144.73 *** | 5.39 | -246.65 *** | 152.77 * |
| | (47.43) | (54.10) | (66.84) | (108.73) | (8.91) | (11.54) | (11.66) | (24.79) |
| Number of observations | 2950 | 2950 | 2588 | 2588 | 68762 | 68762 | 96650 | 96650 |

Data from the U.S. Census year 2000, five percent sample of the Public Use Microdata Set (PUMS).

* ; ** ; *** significant at 10 % , 5% and 1 % . Estimated coefficients, standard errors (in parenthesis) clustered by state.

Regressions run with the covariates described in Section III. Regressions are corrected for sample selection with Heckman MLE.

Age_diff (Y_diff) is defined as head's age (total non-labor income) minus partner's age (total non-labor income).

For heterosexual couples, it is the male mate's trait minus the female mate's trait.

Table 4. Proportionality Tests on the Effects of Age and Non-Labor Income Differences on Lesbian, Gay and Heterosexual Couples

Estimated Ratio of Coefficients

| | <u>Lesbian Couples</u> | | <u>Gay Couples</u> | | <u>Heterosexual Cohabiting Couples</u> | | <u>Heterosexual Married Couples</u> | |
|--|------------------------|------------------------|---------------------|------------------------|--|----------------------|-------------------------------------|---------------------|
| | Heads (1) | Partners (2) | Heads (3) | Partners (4) | Male (5) | Female (6) | Husbands (7) | Wives (8) |
| <u>coefficient of Y_diff</u> | -.0008 ** | -.0013 * | -.0014 * | -.0011 * | -.0011 *** | -.0013 *** | -.0011 *** | .0019* |
| <u>coefficient of Age_diff</u> | (.0037) | (.0008) | (.0011) | (.0006) | (.0002) | (.0002) | (.0002) | (.001) |
| Test of equality of this ratio between heads and partners | P = .34 | | P = .35 | | P = .489 | | P = .367 | |
| Number of observations | 2950 | 2950 | 2588 | 2588 | 68762 | 68762 | 96650 | 96650 |

Data from the U.S. Census year 2000, five percent sample of the Public Use Microdata Set (PUMS).

* ; ** ; *** significant at 10 % , 5% and 1 % . Estimated ratio of coefficients, standard errors in parenthesis.

Age_diff (Y_diff) is defined as head's age (total non-labor income) minus partner's age (total non-labor income).

For heterosexual couples, it is the male mate's trait minus the female mate's trait. Heads and partners become male and female mates.

Table 5. Sharing Rule for Lesbian, Gay, Heterosexual Cohabiting and Married Couples

Estimated Coefficients of the Head's share of a couple's non-labor income

| | <u>Lesbian Couples</u> | <u>Gay Couples</u> | <u>Heterosexual Cohabiting Couples</u> | <u>Heterosexual Married Couples</u> |
|------------------------|------------------------|--------------------|--|-------------------------------------|
| Age_diff | -383 | -303 | -272 | 173 |
| Y_diff | .312 | .420 | .32 | .196 |
| Y | .71 | .34 | .54 | .38 |
| log of wage of head | 18358 | 11205 | 11760 | 12844 |
| log of wage of partner | -14301 | -20174 | -7041 | -11096 |
| Number of observations | 2950 | 2588 | 68762 | 96650 |

Data from the U.S. Census year 2000, five percent sample of the Public Use Microdata Set (PUMS).

The above coefficients represent the change in the head's share of the couple's non-labor income Y.

Age_diff (Y_diff) is defined as head's age (total non-labor income) minus partner's age (total non-labor income).

For heterosexual couples, it is the male mate's trait minus the female mate's trait.

NOTE DI LAVORO DELLA FONDAZIONE ENI ENRICO MATTEI

Fondazione Eni Enrico Mattei Working Paper Series

Our Note di Lavoro are available on the Internet at the following addresses:

<http://www.feem.it/Feem/Pub/Publications/WPapers/default.htm>

<http://www.ssrn.com/link/feem.html>

<http://www.repec.org>

<http://agecon.lib.umn.edu>

<http://www.bepress.com/feem/>

NOTE DI LAVORO PUBLISHED IN 2008

| | | |
|------|---------|---|
| CCMP | 1.2008 | <i>Valentina Bosetti, Carlo Carraro and Emanuele Massetti: <u>Banking Permits: Economic Efficiency and Distributional Effects</u></i> |
| CCMP | 2.2008 | <i>Ruslana Palatnik and Mordechai Shechter: <u>Can Climate Change Mitigation Policy Benefit the Israeli Economy? A Computable General Equilibrium Analysis</u></i> |
| KTHC | 3.2008 | <i>Lorenzo Casaburi, Valeria Gattai and G. Alfredo Minerva: <u>Firms' International Status and Heterogeneity in Performance: Evidence From Italy</u></i> |
| KTHC | 4.2008 | <i>Fabio Sabatini: <u>Does Social Capital Mitigate Precariousness?</u></i> |
| SIEV | 5.2008 | <i>Wisdom Akpalu: <u>On the Economics of Rational Self-Medication</u></i> |
| CCMP | 6.2008 | <i>Carlo Carraro and Alessandra Sgobbi: <u>Climate Change Impacts and Adaptation Strategies In Italy. An Economic Assessment</u></i> |
| ETA | 7.2008 | <i>Elodie Rouvière and Raphaël Soubeyran: <u>Collective Reputation, Entry and Minimum Quality Standard</u></i> |
| IEM | 8.2008 | <i>Cristina Cattaneo, Matteo Manera and Elisa Scarpa: <u>Industrial Coal Demand in China: A Provincial Analysis</u></i> |
| IEM | 9.2008 | <i>Massimiliano Serati, Matteo Manera and Michele Plotegher: <u>Econometric Models for Electricity Prices: A Critical Survey</u></i> |
| CCMP | 10.2008 | <i>Bob van der Zwaan and Reyer Gerlagh: <u>The Economics of Geological CO₂ Storage and Leakage</u></i> |
| KTHC | 11.2008 | <i>Maria Francesca Cracolici and Teodora Erika Uberti: <u>Geographical Distribution of Crime in Italian Provinces: A Spatial Econometric Analysis</u></i> |
| KTHC | 12.2008 | <i>Victor Ginsburgh, Shlomo Weber and Sheila Weyers: <u>Economics of Literary Translation. A Simple Theory and Evidence</u></i> |
| NRM | 13.2008 | <i>Carlo Giupponi, Jaroslav Mysiak and Alessandra Sgobbi: <u>Participatory Modelling and Decision Support for Natural Resources Management in Climate Change Research</u></i> |
| NRM | 14.2008 | <i>Yaella Depietri and Carlo Giupponi: <u>Science-Policy Communication for Improved Water Resources Management: Contributions of the Nostrum-DSS Project</u></i> |
| CCMP | 15.2008 | <i>Valentina Bosetti, Alexander Golub, Anil Markandya, Emanuele Massetti and Massimo Tavoni: <u>Abatement Cost Uncertainty and Policy Instrument Selection under a Stringent Climate Policy. A Dynamic Analysis</u></i> |
| KTHC | 16.2008 | <i>Francesco D'Amuri, Gianmarco I.P. Ottaviano and Giovanni Peri: <u>The Labor Market Impact of Immigration in Western Germany in the 1990's</u></i> |
| KTHC | 17.2008 | <i>Jean Gabszewicz, Victor Ginsburgh and Shlomo Weber: <u>Bilingualism and Communicative Benefits</u></i> |
| CCMP | 18.2008 | <i>Benno Torgler, María A.GarcíaValiñas and Alison Macintyre: <u>Differences in Preferences Towards the Environment: The Impact of a Gender, Age and Parental Effect</u></i> |
| PRCG | 19.2008 | <i>Gian Luigi Albano and Berardino Cesi: <u>Past Performance Evaluation in Repeated Procurement: A Simple Model of Handicapping</u></i> |
| CTN | 20.2008 | <i>Pedro Pintassilgo, Michael Finus, Marko Lindroos and Gordon Munro (lxxxiv): <u>Stability and Success of Regional Fisheries Management Organizations</u></i> |
| CTN | 21.2008 | <i>Hubert Kempf and Leopold von Thadden (lxxxiv): <u>On Policy Interactions Among Nations: When Do Cooperation and Commitment Matter?</u></i> |
| CTN | 22.2008 | <i>Markus Kinaterer (lxxxiv): <u>Repeated Games Played in a Network</u></i> |
| CTN | 23.2008 | <i>Taiji Furusawa and Hideo Konishi (lxxxiv): <u>Contributing or Free-Riding? A Theory of Endogenous Lobby Formation</u></i> |
| CTN | 24.2008 | <i>Paolo Pin, Silvio Franz and Matteo Marsili (lxxxiv): <u>Opportunity and Choice in Social Networks</u></i> |
| CTN | 25.2008 | <i>Vasileios Zikos (lxxxiv): <u>R&D Collaboration Networks in Mixed Oligopoly</u></i> |
| CTN | 26.2008 | <i>Hans-Peter Weikard and Rob Dellink (lxxxiv): <u>Sticks and Carrots for the Design of International Climate Agreements with Renegotiations</u></i> |
| CTN | 27.2008 | <i>Jingang Zhao (lxxxiv): <u>The Maximal Payoff and Coalition Formation in Coalitional Games</u></i> |
| CTN | 28.2008 | <i>Giacomo Pasini, Paolo Pin and Simon Weidenholzer (lxxxiv): <u>A Network Model of Price Dispersion</u></i> |
| CTN | 29.2008 | <i>Ana Mauleon, Vincent Vannetelbosch and Wouter Vergote (lxxxiv): <u>Von Neumann-Morgenstern Farsightedly Stable Sets in Two-Sided Matching</u></i> |
| CTN | 30.2008 | <i>Rahmi İlkiliç (lxxxiv): <u>Network of Commons</u></i> |
| CTN | 31.2008 | <i>Marco J. van der Leij and I. Sebastian Buhai (lxxxiv): <u>A Social Network Analysis of Occupational Segregation</u></i> |
| CTN | 32.2008 | <i>Billand Pascal, Frachisse David and Massard Nadine (lxxxiv): <u>The Sixth Framework Program as an Affiliation Network: Representation and Analysis</u></i> |
| CTN | 33.2008 | <i>Michèle Breton, Lucia Sbragia and Georges Zaccour (lxxxiv): <u>Dynamic Models for International Environmental Agreements</u></i> |

| | | |
|------|---------|--|
| PRCG | 34.2008 | <i>Carmine Guerriero</i> : <u>The Political Economy of Incentive Regulation: Theory and Evidence from US States</u> |
| IEM | 35.2008 | <i>Irene Valsecchi</i> : <u>Learning from Experts</u> |
| PRCG | 36.2008 | <i>P. A. Ferrari and S. Salini</i> : <u>Measuring Service Quality: The Opinion of Europeans about Utilities</u> |
| ETA | 37.2008 | <i>Michele Moretto and Gianpaolo Rossini</i> : <u>Vertical Integration and Operational Flexibility</u> |
| CCMP | 38.2008 | <i>William K. Jaeger and Van Kolpin</i> : <u>The Environmental Kuznets Curve from Multiple Perspectives</u> |
| PRCG | 39.2008 | <i>Benno Torgler and Bin Dong</i> : <u>Corruption and Political Interest: Empirical Evidence at the Micro Level</u> |
| KTHC | 40.2008 | <i>Laura Onofri, Paulo A.L.D. Nunes, Jassone Cenoz and Durk Gorter</i> : <u>Language Diversity in Urban Landscapes: An econometric study</u> |
| CTN | 41.2008 | <i>Michel Le Breton, Valery Makarov, Alexei Savvateev and Shlomo Weber</i> (lxxxiv): <u>Multiple Membership and Federal Structures</u> |
| NRM | 42.2008 | <i>Gideon Kruseman and Lorenzo Pellegrini</i> : <u>Institutions and Forest Management: A Case Study from Swat, Pakistan</u> |
| SIEV | 43.2008 | <i>Pietro Caratti and Ludovico Ferraguto</i> : <u>Analysing Regional Sustainability Through a Systemic Approach: The Lombardy Case Study</u> |
| KTHC | 44.2008 | <i>Barbara Del Corpo, Ugo Gasparino, Elena Bellini and William Malizia</i> : <u>Effects of Tourism Upon the Economy of Small and Medium-Sized European Cities. Cultural Tourists and “The Others”</u> |
| CTN | 45.2008 | <i>Dinko Dimitrov and Emiliya Lazarova</i> : <u>Coalitional Matchings</u> |
| ETA | 46.2008 | <i>Joan Canton, Maia David and Bernard Sinclair-Desgagné</i> : <u>Environmental Regulation and Horizontal Mergers in the Eco-industry</u> |
| ETA | 47.2008 | <i>Stéphane Hallegatte</i> : <u>A Proposal for a New Prescriptive Discounting Scheme: The Intergenerational Discount Rate</u> |
| KTHC | 48.2008 | <i>Angelo Antoci, Paolo Russu and Elisa Ticci</i> : <u>Structural Change, Environment and Well-being: Interactions Between Production and Consumption Choices of the Rich and the Poor in Developing Countries</u> |
| PRCG | 49.2008 | <i>Gian Luigi Albano, Federico Dini Roberto Zampino and Marta Fana</i> : <u>The Determinants of Suppliers’ Performance in E-Procurement: Evidence from the Italian Government’s E-Procurement Platform</u> |
| CCMP | 50.2008 | <i>Inmaculada Martínez-Zarzoso</i> : <u>The Impact of Urbanization on CO2 Emissions: Evidence from Developing Countries</u> |
| KTHC | 51.2008 | <i>Michele Moretto and Sergio Vergalli</i> : <u>Managing Migration through Quotas: an Option-theory Perspective</u> |
| KTHC | 52.2008 | <i>Ugo Gasparino, Elena Bellini, Barbara Del Corpo and William Malizia</i> : <u>Measuring the Impact of Tourism Upon Urban Economies: A Review of Literature</u> |
| ETA | 53.2008 | <i>Reyer Gerlagh, Snorre Kverndokk and Knut Einar Rosendahl</i> : <u>Linking Environmental and Innovation Policy</u> |
| KTHC | 54.2008 | <i>Oguzhan C. Dincer and Burak Gunalp</i> : <u>Corruption, Income Inequality, and Poverty in the United States</u> |
| PRCG | 55.2008 | <i>Carmine Guerriero</i> : <u>Accountability in Government and Regulatory Policies: Theory and Evidence</u> |
| KTHC | 56.2008 | <i>Tanmoyee Banerjee (Chatterjee) and Nilanjana Mitra</i> : <u>Export, Assembly-line FDI or FDI with the Possibility of Technology Diffusion: Optimal Entry Mode for Multinationals</u> |
| ETA | 57.2008 | <i>Xavier Pautrel</i> : <u>Environmental Policy, Education and Growth: A Reappraisal when Lifetime Is Finite</u> |
| CCMP | 58.2008 | <i>Natalia Zugravu, Katrin Millock and Gérard Duchene</i> : <u>The Factors Behind CO2 Emission Reduction in Transition Economies</u> |
| NRM | 59.2008 | <i>Benno Torgler, María A.García-Valiñas and Alison Macintyre</i> : <u>Justifiability of Littering: An Empirical Investigation</u> |
| SIEV | 60.2008 | <i>Paolo Rosato, Anna Alberini, Valentina Zanatta and Margaretha Breil</i> : <u>Redeveloping Derelict and Underused Historic City Areas: Evidence from a Survey of Real Estate Developers</u> |
| CTN | 61.2008 | <i>Ricardo Nieva</i> : <u>Networks with Group Counterproposals</u> |
| CTN | 62.2008 | <i>Michael Finus and Dirk T.G. Rübhelke</i> : <u>Coalition Formation and the Ancillary Benefits of Climate Policy</u> |
| SIEV | 63.2008 | <i>Elisabetta Strazzera, Elisabetta Cerchi and Silvia Ferrini</i> : <u>A Choice Modelling Approach for Assessment of Use and Quasi-Option Values in Urban Planning for Areas of Environmental Interest</u> |
| SIEV | 64.2008 | <i>Paolo Rosato, Lucia Rotaris, Margaretha Breil and Valentina Zanatta</i> : <u>Do We Care about Built Cultural Heritage? The Empirical Evidence Based on the Veneto House Market</u> |
| KTHC | 65.2008 | <i>Luca Petruzzellis and Antonia Rosa Guerrieri</i> : <u>Does Network Matter in International Expansion? Evidence from Italian SMEs</u> |
| NRM | 66.2008 | <i>Sheila M. Olmstead and Robert N. Stavins</i> : <u>Comparing Price and Non-price Approaches to Urban Water Conservation</u> |
| CCMP | 67.2008 | <i>Robert N. Stavins</i> : <u>Addressing Climate Change with a Comprehensive U.S. Cap-and-Trade System</u> |
| CCMP | 68.2008 | <i>Geoffrey J. Blanford, Richard G. Richels and Thomas F. Rutherford</i> : <u>Impact of Revised CO₂ Growth Projections for China on Global Stabilization Goals</u> |
| CCMP | 69.2008 | <i>Valentina Bosetti, Carlo Carraro, Alessandra Sgobbi and Massimo Tavoni</i> : <u>Delayed Action and Uncertain Targets. How Much Will Climate Policy Cost?</u> |
| CCMP | 70.2008 | <i>Valentina Bosetti, Carlo Carraro and Massimo Tavoni</i> : <u>Delayed Participation of Developing Countries to Climate Agreements: Should Action in the EU and US be Postponed?</u> |
| SIEV | 71.2008 | <i>Massimiliano Mazzanti, Anna Montini and Francesco Nicoli</i> : <u>Embedding Landfill Diversion in Economic, Geographical and Policy Settings Panel based evidence from Italy</u> |
| ETA | 72.2008 | <i>Reyer Gerlagh and Matti Liski</i> : <u>Strategic Resource Dependence</u> |
| CCMP | 73.2008 | <i>Sonia Ben Kheder and Natalia Zugravu</i> : <u>The Pollution Haven Hypothesis: A Geographic Economy Model in a Comparative Study</u> |
| SIEV | 74.2008 | <i>Jérôme Massiani and Paolo Rosato</i> : <u>The Preferences of Trieste Inhabitants for the Re-use of the Old Port: A Conjoint Choice Experiment</u> |
| SIEV | 75.2008 | <i>Martin F. Quaas and Sjak Smulders</i> : <u>Pollution and the Efficiency of Urban Growth</u> |
| CCMP | 76.2008 | <i>Anil Markandya and Dirk T.G. Rübhelke</i> : <u>Impure Public Technologies and Environmental Policy</u> |

| | | |
|------|---------|---|
| KTHC | 77.2008 | <i>Gianmarco I P Ottaviano and Giovanni Peri: <u>Immigration and National Wages: Clarifying the Theory and the Empirics</u></i> |
| CCMP | 78.2008 | <i>Vivekananda Mukherjee, Dirk T.G. Rübbelke and Tilak Sanyal: <u>Technology Transfer in the Non-traded Sector as a Means to Combat Global Warming</u></i> |
| SIEV | 79.2008 | <i>A. Ghermandi, J.C.J.M. van den Bergh, L.M. Brander, H.L.F. de Groot, and P.A.L.D. Nunes: <u>The Economic Value of Wetland Conservation and Creation: A Meta-Analysis</u></i> |
| CCMP | 80.2008 | <i>Snorre Kverndokk and Adam Rose: <u>Equity and Justice in Global Warming Policy</u></i> |
| ETA | 81.2008 | <i>Sonia Oreffice: <u>Sexual Orientation and Household Decision Making. Same-Sex Couples' Balance of Power and Labor Supply Choices</u></i> |

(lxxxiv) This paper was presented at the 13th Coalition Theory Network Workshop organised by the Fondazione Eni Enrico Mattei (FEEM), held in Venice, Italy on 24-25 January 2008.

2008 SERIES

| | |
|-------------|--|
| CCMP | <i>Climate Change Modelling and Policy</i> (Editor: Carlo Carraro) |
| SIEV | <i>Sustainability Indicators and Environmental Valuation</i> (Editor: Anil Markandya) |
| NRM | <i>Natural Resources Management</i> (Editor: Carlo Giupponi) |
| KTHC | <i>Knowledge, Technology, Human Capital</i> (Editor: Gianmarco Ottaviano) |
| IEM | <i>International Energy Markets</i> (Editor: Matteo Manera) |
| CSR | <i>Corporate Social Responsibility and Sustainable Management</i> (Editor: Giulio Sapelli) |
| PRCG | <i>Privatisation Regulation Corporate Governance</i> (Editor: Bernardo Bortolotti) |
| ETA | <i>Economic Theory and Applications</i> (Editor: Carlo Carraro) |
| CTN | <i>Coalition Theory Network</i> |