

## Female Labor Supply: Why Is the United States Falling Behind?<sup>†</sup>

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In 1990, US women had one of the highest labor force participation rates among Western, economically advanced nations. By 2010, however, women in most other economically advanced countries had surpassed those in the United States in their participation rates. Unlike the United States, most other economically advanced nations have enacted an array of policies designed to facilitate women's participation in the labor force, and such policies have on average expanded over the last 20 years relative to the United States. In this paper, we study the role of such policies in explaining the decline in US women's relative position in labor force participation internationally and discuss some possible unintended side effects of these policies, including a reliance on part-time employment for women and lower female representation in high-level positions.

### I. The Facts: Women's Labor Force Outcomes and Work-Family Policies

Table 1 shows male and female labor force participation rates (LFPRs) for the United States and the average of 21 other OECD countries for 1990 and 2010 for 25–54-year-olds (to abstract from schooling and retirement decisions). In 1990, US women's LFPR of 74 percent was the sixth highest among the 22 countries. By 2010, US women's LFPR had risen slightly to 75.2 percent; however, on average, women in the other countries had dramatically raised their LFPR from

TABLE 1—MALE AND FEMALE LABOR FORCE PARTICIPATION RATES, INDIVIDUALS AGE 25–54, 1990 AND 2010

	Men		Women	
	1990	2010	1990	2010
United States	93.4	89.3	74.0	75.2
Non-US average	94.0	92.5	67.1	79.5
US rank of 22	14	22	6	17

Notes: Non-US countries include: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Ireland, Japan, Italy, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom. Data for Austria are for 1994 and 2010; data for Switzerland are for 1991 and 2010.

Source: OECD (2012b).

67.1 to 79.5 percent, surpassing the United States. As of 2010, US women ranked 17th of 22, a stunning reversal. Men's LFPRs declined, both in the United States and in other countries, over this period, and the decrease was somewhat larger for US men. While US men's ranking also fell, from 14th to 22nd, this represented only a small increase in the difference between the US rate and the non-US average. Table 1 thus shows that, between 1990 and 2010, the *gender gap* in LFPRs fell from 19.4 to 14.1 percentage points in the United States, but by much more in other countries, from 26.9 to 13 percentage points. Using 2007 as the endpoint (i.e., before the recent recession) leads to the same overall conclusion about the reversal in US women's relative position.

Table 2 summarizes international differences in some key policies that we expect to influence especially women's labor supply, as well as in the incidence of part-time work (defined by the OECD as less than 30 hours per week). The table presents data for the United States and a non-US average based on 16 other countries for which we have data in both 1990 and 2010. A number of differences between the United States and the other countries are evident from the table.

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TABLE 2—SELECTED LABOR MARKET POLICIES AND PART-TIME WORK INCIDENCE, US AND AVERAGE OF 16 NON-US OECD COUNTRIES

	1990		2010	
	US	Non-US average	US	Non-US average
Parental leave: weeks	0	37.2	12	57.3
Parental leave: replacement rate (including zeros)	0	26.5	0	38
Right to part-time work (1 = yes)	No	0	No	0.313
Equal treatment, part-time workers (1 = yes)	No	0.125	No	0.750
Public child care spending/GDP ( $\times 100$ )	0.0286	0.3469	0.1144	0.4653
Male part-time work incidence	0.028	0.031	0.039	0.051
Female part-time work incidence	0.147	0.258	0.131	0.260

Notes: Child care data are for 1990 and 2007. Non-US countries include: Belgium, Canada, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Spain, and the United Kingdom. Part-time work is defined as less than 30 hours per week.

Sources: Max Planck Institute for Demographic Research (Gauthier 2011); OECD (2010a–b, 2012 a–c); NBER (2011).

First, most countries provide workers with an entitlement to parental leave as well as mandated pay during such periods. The US mandate of up to 12 weeks of unpaid leave dates to the passage of the Family and Medical Leave Act (FMLA) of 1993 (Blau, Ferber, and Winkler 2010). However, entitlements in other countries generally predated the United States, were longer, usually paid, and expanded on average by more during the 1990–2010 period. Parental leave potentially has complex effects on labor supply (see, for example, Ruhm 1998 or Waldfogel 1998). On the one hand, it is an entitlement that one can only qualify for by having a job in the first place. And, by giving workers the right to their job back after taking the leave, the entitlement raises the job prospects of those who have left the labor force after the birth of a child. These effects suggest that parental leave would increase women's LFPRs.<sup>1</sup> On the

<sup>1</sup> There is also a measurement issue in that individuals out on parental leave are counted as employed (with a job but not at work). Ruhm (1998) finds indirect evidence that such effects can account for between one-quarter and

other hand, parental leave mandates may encourage women to stay out of the labor force longer than they otherwise would. In addition, such mandates may raise the expected cost of employing women of childbearing age, thus potentially lowering their wages and possibly deterring employers from hiring them. Thus, parental leave has theoretically ambiguous effects on women's labor supply, although Ruhm (1998) finds a positive effect based on eight countries.

Second, between 1990 and 2010, five countries enacted laws giving workers the right to demand a change to a part-time work schedule without exception. Moreover, while in 1990 only two of the 16 non-US countries shown in Table 2 forbade discrimination against part-time workers, by 2010, 12 had such legislation. Workers in the United States did not have such protections. We expect these rights for part-time workers to increase the supply of workers, particularly women, to part-time jobs. Of course, to the extent that these laws raise the cost of employing part-time workers, they may reduce employers' incentives to offer part-time jobs and their demand for women workers more generally to the extent women are viewed as more likely to demand a change to a part-time schedule (where this is an option). Thus, the net effect of part-time worker protections on LFPRs is theoretically uncertain. Interestingly, Table 2 shows that part-time work among women is much more prevalent in other countries than in the United States, while differences among men are small.

Third, most countries have publicly provided child care services. Table 2 shows that these expanded by slightly more in other countries than in the United States between 1990 and 2007 (the most recent year available), going from about 0.35 percent of GDP in 1990 to 0.47 percent in 2007 for non-US countries on average, and from 0.03 to 0.11 percent in the United States.<sup>2</sup> We expect child care availability

one-half of the positive impact of paid leave on women's employment-to-population ratios.

<sup>2</sup> Our measure of child care expenses includes only in-kind child care services but excludes preschool expenditures due to lack of OECD data on these before 1998. Moreover, the OECD reports zero expenditures for most years for the United States, and we instead used data from NBER (2011) for Head Start expenditures plus subsidies for child care expenditures aggregated for all states excluding the District of Columbia due to missing data.

TABLE 3—SELECTED REGRESSION RESULTS FOR LABOR FORCE PARTICIPATION, AGE 25–54, 1990–2010

	Men	Women	Men – women	log ratio men/women
Parental leave: weeks	0.018** (0.008)	0.041 (0.050)	–0.023 (0.048)	–0.000 (0.001)
Parental leave: replacement rate	0.003 (0.003)	0.045 (0.032)	–0.043 (0.033)	–0.001 (0.001)
Right to part-time work	0.462 (0.369)	4.304** (1.989)	–3.842* (1.962)	–0.059* (0.033)
Equal treatment, part-time workers	0.406** (0.194)	2.281* (1.244)	–1.875 (1.211)	–0.039* (0.020)
Male unemployment rate	–0.021 (0.043)	0.194 (0.262)	–0.215 (0.240)	–0.002 (0.004)
<i>F</i> -test: all policy variables	<i>p</i> =0.0018	<i>p</i> =0.0121	<i>p</i> =0.0359	<i>p</i> =0.0166
<i>F</i> -test: parental leave policies	<i>p</i> =0.0005	<i>p</i> =0.1205	<i>p</i> =0.2359	<i>p</i> =0.2237
<i>F</i> -test: part-time policies	<i>p</i> =0.0718	<i>p</i> =0.0099	<i>p</i> =0.0276	<i>p</i> =0.0165
Observations	424	424	424	424
<i>R</i> <sup>2</sup>	0.872	0.921	0.934	0.911

Note: Models include year and country dummies.

\*\* Significant at the 5 percent level.

\* Significant at the 10 percent level.

to raise women's LFPRs by reducing the cost of working outside the home.

## II. Accounting for the US Relative Decline in Female Labor Force Participation

To study whether changing work-family policies have influenced the trends in Table 1, we performed linear regression analyses of women's LFPRs, men's LFPRs, the male-female difference in LFPRs, and the log of the male-female ratio in LFPRs. We used annual data by country for the 1990–2010 period. Key explanatory variables include the parental leave and part-time work policies shown in Table 2, as well as the male unemployment rate (to control for business cycle effects), and a full set of year and country dummy variables. Standard errors were clustered at the country level. In our longer paper (Blau and Kahn 2013), we also estimated models including public child care provision (data on which were available only through 2007). The decomposition results were very similar to those presented here.

Note that we do not include education levels or GDP per capita since these may be endogenous with respect to women's labor supply. Specifically, women's schooling levels in part reflect their labor force plans, and there is likely to be a mechanical effect of labor supply on GDP per capita. Moreover, while previous research (e.g., Goldin 1995) documented a U-shaped effect of economic development on female labor supply, our sample consists only of developed economies during a very recent period in history (1990–2010). Our estimates should be seen as reduced forms of the effect of the work-family policies.

The inclusion of country dummies controls for omitted factors that may be stable over our time period, possibly including religion and culture (unfortunately, our data could not support the inclusion of country trends). Moreover, OECD data indicate that the taxation unit in nearly all of the countries studied here did not change during the 1990–2010 period (most countries except the United States tax on an individual basis), implying that our control for country fixed effects can account for these intercountry differences (OECD, *Taxing Wages*, various issues). We acknowledge that an exogenous increase in women's labor supply could lead to demands for legislation increasing parental leave entitlements and part-time worker protections. Thus, while it is plausible that such policies could affect women's labor supply, the laws themselves may well be endogenous.

Table 3 presents the results of the analyses of the LFPRs of men and women, as well as of the gender differences and ratios. The parental leave and part-time policy variables all have positive effects on both men's and women's LFPRs and negative effects on the male-female difference and the log of the male/female ratio of LFPRs. The policy variables are highly significant as a group in all specifications. The results for men may indicate a true effect of these policies on male LFPRs or may be due to a correlation of the policies with general factors raising LFPRs in the economy. Of importance here, however, is that the coefficients are much larger for women than men, leading to the negative signs in the models estimating the male-female gap (or ratio) in LFPRs. The larger size of the female effects suggests that our policy variables do reflect, at least in part,

gender-related factors affecting labor supply rather than simply standing in for economy-wide work propensities common to both sexes.

To assess the importance of family-friendly policies in explaining international trends in women's LFPRs, note that if we assign the non-US average levels of the policy variables to the United States in 1990, US women's LFPR would have been 77 percent instead of its actual level of 74 percent. By 2010, with the expansion of these policies outside the United States, giving US women the other countries' average policy levels would have raised US women's LFPR to 82 percent compared to its actual value of 75.2 percent, a substantial 6.8 percentage point increase. With an 82 percent LFPR, US women would have ranked 11th among the 22 countries described in Table 1, compared to their actual ranking of 17th. The actual female LFPR grew 12.9 percentage points more slowly over the 1990–2010 period in the United States than in the 16 other countries for which we have data on all variables. However, with the non-US policy variables in both 1990 and 2010, it would have grown 9.1 percentage points more slowly. Therefore, the policy changes shown in Table 2 can account for 3.8 percentage points (29 percent) of the deterioration in US women's relative LFPR, a substantial effect. A similar exercise finds only very small effects for men.

### III. Are US Women Really Falling Behind?

While work-family policies appear to raise women's LFPRs, it is plausible that the generous parental leave mandates and part-time entitlements in most countries outside the United States reduce women's representation in high-level jobs, which generally require full-time, full-year, career-long commitments. This may operate on the supply side, if long leaves encourage women to stretch their leave time longer than they otherwise would<sup>3</sup> and part-time protections encourage them to take part-time rather than full-time jobs. On the demand side, more generous leave policies and a higher incidence

of part-time entitlements may lead employers to engage in statistical discrimination against women as a group, anticipating that women will take advantage of such opportunities.

Consistent with this reasoning, Table 2 showed that US women are far less likely to work part time than women in other countries. To further examine whether the package of policies in other OECD countries tends to increase part-time relative to full-time employment on net, we repeated the analyses in Table 3 using the employment-to-population ratio (EPOP) and the part-time employment-to-population ratio (PTEPOP) as dependent variables. We found that the non-US averages of the policy variables did contribute to a higher level of both employment and part-time employment for women, but with most of the employment effect accounted for by part-time jobs. For example, in 2010, giving US women the non-US levels of the policy variables would have raised their EPOP by 7.2 percentage points (from 69.3 to 76.5 percent) and their PTEPOP by 4 percentage points (from 9.1 to 13.1 percentage points). Thus, while the policies discussed above raise women's employment, this increase is made up largely (55 percent) of part-time work.<sup>4</sup> Effects of the policies for men's EPOP and PTEPOP were small. Although some women may prefer the relative flexibility of part-time work, they pay a penalty in reduced earnings and benefits (Blau, Ferber, and Winkler 2010).

In addition to having a much higher incidence of full-time work than women in other countries, US women also tend to work in higher-level positions than those in most other countries. In our longer paper (Blau and Kahn 2013), we used microdata from the 1998 and 2009 International Social Survey Programme (ISSP) to compare men's and women's incidence in high-level occupations to those in ten other OECD countries for which the ISSP had data in these two years (Australia, Austria, Denmark, France, New Zealand, Norway, Portugal, Spain, Sweden, and

<sup>3</sup> This is not necessarily inconsistent with our finding of a positive effect on the labor force participation of women in the full 25–54 year age group, though our results do suggest that, on net, the policies increase labor force attachment. Also, as noted previously, individuals are counted as employed when out on leave.

<sup>4</sup> Effects of the policies on men's employment and part-time employment were small. Note that women's incidence of part-time jobs rose by only 2 percentage points in other countries relative to the United States in Table 2. This is the case because the policy expansion increased employment by about 7 percentage points on a base of 60–70 percent and our estimates apply to the *flow* of part-time jobs rather than the stock.

Switzerland). The occupations were Managers, Professionals, and “Male Professionals,” which we define as Professionals minus preuniversity teachers and nurses, two historically female dominated occupations requiring high levels of education (Blau, Ferber, and Winkler 2010). The data show that women and men in the United States were virtually equally likely to be managers in both 1998 and 2009. In contrast, in the other countries, women were about half as likely as men to be managers (roughly a 6 percentage point gap). Women were more likely than men to be professionals both in the United States and, on average, in the other countries. However, the female advantage was much larger in the United States than elsewhere. And US women were equally likely as men to be employed in Male Professions, while in the other countries, there was a 2.4–2.8 percentage point female shortfall (17–25 percent). Published data also show less occupational segregation by gender in the United States than in most other OECD countries (Blau, Ferber, and Winkler 2010).

Consistent with the data on occupations, we have found in earlier work that women in the United States rank higher relative to the male wage distribution than is the case in other OECD countries (Blau and Kahn 1996). However, the gender wage gap tends to be larger in the United States than elsewhere (OECD 2010a). This is partly because wage setting is much more highly centralized in most other countries, with an emphasis in Continental Europe and Australia on union contracts that raise wages at the bottom of the distribution. We have found that such policies lower the gender wage gap in such countries relative to the United States, although they also appear to raise women’s relative unemployment rates (Blau and Kahn 1996; Bertola, Blau, and Kahn 2007). In addition, by reducing wage differentials associated with higher-paying occupations or industries, centralized wage setting may reduce women’s incentives to seek higher-level positions.

#### IV. Conclusions

Our analysis of women’s labor force participation and family-friendly policies suggests that there may be a trade-off between some policies that make it easier for women to combine work and family and women’s advancement at work. On the one hand, such policies likely facilitate the

labor force entry of less career-oriented women (or of women who are at a stage in the life cycle when they would prefer to reduce labor market commitments). On the other hand, entitlements to long, paid parental leaves and part-time work may encourage women who would have otherwise had a stronger labor force commitment to take part-time jobs or lower-level positions. Moreover, on the employer side, such policies may lead employers to engage in statistical discrimination against women for jobs leading to higher-level positions, if employers cannot tell which women are likely to avail themselves of these options and which are not. Thus, while these policies may give women options that they would not otherwise have had, they may also leave them less likely to be considered for high-level positions. One’s evaluation of such policies must take both of these effects into account.

#### REFERENCES

- Bertola, Giuseppe, Francine D. Blau, and Lawrence M. Kahn.** 2007. “Labor Market Institutions and Demographic Employment Patterns.” *Journal of Population Economics* 20 (4): 833–67.
- Blau, Francine D., and Lawrence M. Kahn.** 1996. “Wage Structure and Gender Earnings Differentials: An International Comparison.” *Economica* 63 (250): S29–62.
- Blau, Francine D., and Lawrence M. Kahn.** 2013. “Female Labor Supply: Why is the US Falling Behind?” National Bureau of Economic Research Working Paper No. 18702.
- Blau, Francine D., Marianne A. Ferber, and Anne E. Winkler.** 2010. *The Economics of Women, Men, and Work*. 6th ed. Upper Saddle River, NJ: Prentice Hall.
- Gauthier, A. H.** 2011. “Comparative Family Policy Database, Version 3 [computer file].” Netherlands Interdisciplinary Demographic Institute and Max Planck Institute for Demographic Research. <http://www.demogr.mpg.de/cgi-bin/databases/FamPolDB/index.plx> (accessed April 26, 2012).
- Goldin, Claudia.** 1995. “The U-Shaped Female Labor Force Function in Economic Development and Economic History.” In *Investment in Women’s Human Capital*, edited by T. Paul Schultz, 61–90. Chicago: University of Chicago Press.

- National Bureau of Economic Research (NBER).** 2011. "Work-Family Policies and Other Data Database." <http://data.nber.org/workfamily> (accessed January 7, 2013).
- Organisation for Economic Co-operation and Development (OECD).** 2010a. *OECD Employment Outlook 2010*. Paris: OECD.
- Organisation for Economic Co-operation and Development (OECD).** 2010b. "Detailed Description of Part-Time Work Regulations and Unemployment Benefit Schemes Affecting Part-Time Workers: Supporting Material for Chapter 4 "How Good is Part-Time Work?" of the 2010 OECD Employment Outlook." Paris: OECD.
- Organisation for Economic Co-operation and Development (OECD).** 2012a. "Gross Domestic Product." StatExtracts, Online Database. [http://stats.oecd.org/Index.aspx?DatasetCode=SNA\\_TABLE1](http://stats.oecd.org/Index.aspx?DatasetCode=SNA_TABLE1) (accessed July 29, 2012).
- Organisation for Economic Co-operation and Development (OECD).** 2012b. "OECD Online Employment Database." <http://www.oecd.org/els/employmentpoliciesanddata/onlineoecdemploymentdatabase.htm> (accessed April 26, 2012).
- Organisation for Economic Co-operation and Development (OECD).** 2012c. "Social Expenditures Database." <http://www.oecd.org/els/familiesandchildren/socialspendituredatabas-esocx.htm> (accessed July 29, 2012).
- Organisation for Economic Co-operation and Development (OECD).** Various Issues. *Taxing Wages*. Paris: OECD.
- Ruhm, Christopher J.** 1998. "The Economic Consequences of Parental Leave Mandates: Lessons from Europe." *Quarterly Journal of Economics* 113 (1): 285–317.
- Waldfogel, Jane.** 1998. "The Family Gap for Young Women in the United States and Britain: Can Maternity Leave Make a Difference?" *Journal of Labor Economics* 16 (3): 505–45.

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7. Negar Omidakhsh, Aleta Sprague, Jody Heymann. 2020. Dismantling Restrictive Gender Norms: Can Better Designed Paternal Leave Policies Help? . *Analyses of Social Issues and Public Policy* **20**:1, 382-396. [[Crossref](#)]
8. Jennifer L. Hook, Eunjeong Paek. 2020. A Stalled Revolution? Change in Women's Labor Force Participation during Child-Rearing Years, Europe and the United States 1996–2016. *Population and Development Review* **46**:4, 677-708. [[Crossref](#)]
9. Simen Markussen, Marte Strøm. 2020. Children and labor market outcomes: separating the effects of the first three children. *Journal of Population Economics* **98**. . [[Crossref](#)]
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11. H. Alex Hsain, Ryan Tam, Ishita Kamboj, Hanna Berman, Ryan Dudek. 2020. Paid Family Leave to Strengthen the STEM Workforce. *Journal of Science Policy & Governance* **17**:02. . [[Crossref](#)]
12. Elif Bulut, Elwood Carlson. 2020. Labour Force Participation among MENA Women in the United States: Exploring the Role of Ethnically Homogamous Relationships. *International Migration* **58**:5, 235-254. [[Crossref](#)]
13. Ellen Ernst Kossek, Matthew Perrigino, Alyson Gounden Rock. 2020. TEMPORARY REMOVAL: From ideal workers to ideal work for all: A 50-year review integrating careers and work-family research with a future research agenda. *Journal of Vocational Behavior* 103504. [[Crossref](#)]
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19. Kelly Musick, Megan Doherty Bea, Pilar Gonalons-Pons. 2020. His and Her Earnings Following Parenthood in the United States, Germany, and the United Kingdom. *American Sociological Review* **85**:4, 639-674. [[Crossref](#)]
20. Francesco Grigoli, Zsoka Koczan, Petia Topalova. 2020. Automation and labor force participation in advanced economies: Macro and micro evidence. *European Economic Review* **126**, 103443. [[Crossref](#)]
21. Karen Mumford, Antonia Parera-Nicolau, Yolanda Pena-Boquete. 2020. Labour Supply and Childcare: Allowing Both Parents to Choose. *Oxford Bulletin of Economics and Statistics* **82**:3, 577-602. [[Crossref](#)]
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25. Yi Zhu, Jianxin Liu, Heng Jiang, Tracey J. Brown, Qingfeng Tian, Yudi Yang, Chao Wang, Hongbin Xu, Junan Liu, Yong Gan, Zuxun Lu. 2020. Are long working hours associated with weight-related outcomes? A meta-analysis of observational studies. *Obesity Reviews* **21**:3. . [[Crossref](#)]
26. Bruce Fuller, Margaret Bridges, Austin Land. 2020. What Policies Advance Infants and Toddlers? Evidence to Inform State and Federal Options. *Social Policy Report* **33**:1, 1-43. [[Crossref](#)]
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33. Tom Emery. Private Childcare and Employment Options: The Geography of the Return to Work for Mothers in the Netherlands 511-532. [[Crossref](#)]
34. Jennifer L. Hook, Meiyong Li. Gendered Tradeoffs 249-266. [[Crossref](#)]
35. Karen Z. Kramer, Hanjin Bae, Cheong-ah Huh, Sunjin Pak. 2019. The positive spillover and crossover of paternity leave use: A dyadic longitudinal analysis. *Journal of Vocational Behavior* **115**, 103310. [[Crossref](#)]
36. Aparna Mathur. 2019. Rethinking the Green New Deal: Using Climate Policy to Address Inequality. *National Tax Journal* **70**:4, 693-722. [[Crossref](#)]
37. Ankita Patnaik. 2019. Reserving Time for Daddy: The Consequences of Fathers' Quotas. *Journal of Labor Economics* **37**:4, 1009-1059. [[Crossref](#)]
38. David Jaume, Alexander Willén. 2019. The Long-Run Effects of Teacher Strikes: Evidence from Argentina. *Journal of Labor Economics* **37**:4, 1097-1139. [[Crossref](#)]

39. Ana Maria Tribin Uribe, Carmaña O. Vargas, Natalia Ramírez Bustamante. 2019. Unintended consequences of maternity leave legislation: The case of Colombia. *World Development* **122**, 218-232. [[Crossref](#)]
40. Iris Delgado, Baltica Cabieses, Mauricio Apablaza, Carla Castillo, Ximena Aguilera, Isabel Matute, Manuel Najera, Juan M. Pericàs, Joan Benach. 2019. Evaluation of the effectiveness and equity of the maternity protection reform in Chile from 2000 to 2015. *PLOS ONE* **14**:9, e0221150. [[Crossref](#)]
41. Katherine Lim. 2019. Do American mothers use self-employment as a flexible work alternative?. *Review of Economics of the Household* **17**:3, 805-842. [[Crossref](#)]
42. Michael F. Lovenheim, Alexander Willén. 2019. The Long-Run Effects of Teacher Collective Bargaining. *American Economic Journal: Economic Policy* **11**:3, 292-324. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
43. Julie Lacroix, Elena Vidal-Coso. 2019. Differences in Labor Supply by Birthplace and Family Composition in Switzerland: the Role of Human Capital and Household Income. *Journal of International Migration and Integration* **20**:3, 659-684. [[Crossref](#)]
44. Sascha O. Becker, Ana Fernandes, Doris Weichselbaumer. 2019. Discrimination in hiring based on potential and realized fertility: Evidence from a large-scale field experiment. *Labour Economics* **59**, 139-152. [[Crossref](#)]
45. Elena Vidal-Coso. 2019. Female employment following childbirth: differences between native and immigrant women in Switzerland. *Journal of Ethnic and Migration Studies* **45**:9, 1667-1692. [[Crossref](#)]
46. Angela Carollo, Anna Oksuzyan, Sven Drefahl, Carlo Giovanni Camarda, Linda Juel Ahrenfeldt, Kaare Christensen, Alyson van Raalte. 2019. Is the age difference between partners related to women's earnings?. *Demographic Research* **41**, 425-460. [[Crossref](#)]
47. Philip S. Heap, Robert N. Horn. 2019. Labor Supply Imbalances in the Aftermath of the Great Recession: Age, Gender, and Labor Force Participation. *Challenge* **62**:3, 177-186. [[Crossref](#)]
48. Alexander Bick, Bettina Brüggemann, Nicola Fuchs-Schündeln, Hannah Paule-Paludkiewicz. 2019. Long-term changes in married couples' labor supply and taxes: Evidence from the US and Europe since the 1980s. *Journal of International Economics* **118**, 44-62. [[Crossref](#)]
49. Tae-Youn Park, Eun-Suk Lee, John W. Budd. 2019. What Do Unions Do for Mothers? Paid Maternity Leave Use and the Multifaceted Roles of Labor Unions. *ILR Review* **72**:3, 662-692. [[Crossref](#)]
50. Hannah Zagel, Richard Breen. 2019. Family demography and income inequality in West Germany and the United States. *Acta Sociologica* **62**:2, 174-192. [[Crossref](#)]
51. Molly Mayer, Céline Le Bourdais. 2019. Sharing Parental Leave Among Dual-Earner Couples in Canada: Does Reserved Paternity Leave Make a Difference?. *Population Research and Policy Review* **38**:2, 215-239. [[Crossref](#)]
52. Yabin Wang, Yuhan Xue. 2019. INCOME UNCERTAINTY, CONSUMER DURABLES INVESTMENTS, AND HOME PRODUCTION: EVIDENCE FROM CHINA. *Contemporary Economic Policy* **37**:2, 312-331. [[Crossref](#)]
53. María Padilla-Romo, Francisco Cabrera-Hernández. 2019. EASING THE CONSTRAINTS OF MOTHERHOOD: THE EFFECTS OF ALL-DAY SCHOOLS ON MOTHERS' LABOR SUPPLY. *Economic Inquiry* **57**:2, 890-909. [[Crossref](#)]
54. Spencer Bastani, Tomer Blumkin, Luca Micheletto. 2019. The Welfare-Enhancing Role of Parental Leave Mandates. *The Journal of Law, Economics, and Organization* **35**:1, 77-126. [[Crossref](#)]
55. Mustafizur Rahman, Md. Al-Hasan. 2019. Male-Female Wage Gap and Informal Employment in Bangladesh: A Quantile Regression Approach. *South Asia Economic Journal* **20**:1, 106-123. [[Crossref](#)]

56. Tessa Conroy. 2019. The kids are alright: working women, schedule flexibility and childcare. *Regional Studies* 53:2, 261-271. [[Crossref](#)]
57. Emanuele Ferragina. 2019. Does Family Policy Influence Women's Employment?: Reviewing the Evidence in the Field. *Political Studies Review* 17:1, 65-80. [[Crossref](#)]
58. Tanja H Nordberg. 2019. Managers' views on employees' parental leave: Problems and solutions within different institutional logics. *Acta Sociologica* 62:1, 81-95. [[Crossref](#)]
59. Gerald D. Cohen. Macroeconomic Theory and Forecasting 11-36. [[Crossref](#)]
60. Nigel Morgan, Annette Pritchard. 2019. Gender Matters in Hospitality (invited paper for 'luminaries' special issue of International Journal of Hospitality Management). *International Journal of Hospitality Management* 76, 38-44. [[Crossref](#)]
61. Yana Gallen, Rune V. Lesner, Rune Vejlin. 2019. The labor market gender gap in Denmark: Sorting out the past 30 years. *Labour Economics* 56, 58-67. [[Crossref](#)]
62. Papuna Gogoladze. 2019. GENDER INCOME GAP OVER LIFE-CYCLE: CROSS-COUNTRY ANALYSIS. *SSRN Electronic Journal* . [[Crossref](#)]
63. Benjamin Bennett, Isil Erel, Lea Henny Stern, Zexi Wang. 2019. Feminist Firms. *SSRN Electronic Journal* . [[Crossref](#)]
64. Meghan C Halley, Alison S Rustagi, Jeanette S Torres, Elizabeth Linos, Victoria Plaut, Christina Mangurian, Esther Choo, Eleni Linos. 2018. Physician mothers' experience of workplace discrimination: a qualitative analysis. *BMJ* 173, k4926. [[Crossref](#)]
65. Maki Kato. 2018. REGIONAL DIFFERENCES IN THE LABOR SUPPLY OF MARRIED FEMALE GRADUATES: WHY IS IT LOWER IN THE METROPOLITAN AREAS OF JAPAN?. *Review of Urban & Regional Development Studies* 30:3, 184-201. [[Crossref](#)]
66. Chen Huang. 2018. WHY ARE U.S. WOMEN DECREASING THEIR LABOR FORCE PARTICIPATION IF THEIR WAGES ARE RISING?. *Economic Inquiry* 56:4, 2010-2026. [[Crossref](#)]
67. Julia Bredtmann, Sebastian Otten, Christian Rulff. 2018. Husband's Unemployment and Wife's Labor Supply: The Added Worker Effect across Europe. *ILR Review* 71:5, 1201-1231. [[Crossref](#)]
68. Heather Antecol, Kelly Bedard, Jenna Stearns. 2018. Equal but Inequitable: Who Benefits from Gender-Neutral Tenure Clock Stopping Policies?. *American Economic Review* 108:9, 2420-2441. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
69. Joanna Tyrowicz, Lucas van der Velde, Karolina Goraus. 2018. How (not) to make women work?. *Social Science Research* 75, 154-167. [[Crossref](#)]
70. Kamila Cygan-Rehm, Christoph Wunder. 2018. Do working hours affect health? Evidence from statutory workweek regulations in Germany. *Labour Economics* 53, 162-171. [[Crossref](#)]
71. Cheti Nicoletti, Kjell G. Salvanes, Emma Tominey. 2018. The Family Peer Effect on Mothers' Labor Supply. *American Economic Journal: Applied Economics* 10:3, 206-234. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
72. Nicholas G. Rupp, Lester A. Zeager. 2018. Paid Parental Leave and Female Faculty Retention. *Eastern Economic Journal* 44:3, 475-488. [[Crossref](#)]
73. Claire M. Kamp Dush, Jill E. Yavorsky, Sarah J. Schoppe-Sullivan. 2018. What Are Men Doing while Women Perform Extra Unpaid Labor? Leisure and Specialization at the Transitions to Parenthood. *Sex Roles* 78:11-12, 715-730. [[Crossref](#)]
74. Axel Börsch-Supan, Tabea Bucher-Koenen, Vesile Kutlu-Koc, Nicolas Goll. 2018. Dangerous flexibility – retirement reforms reconsidered. *Economic Policy* 33:94, 315-355. [[Crossref](#)]
75. Marianne Bertrand. 2018. Coase Lecture - The Glass Ceiling. *Economica* 85:338, 205-231. [[Crossref](#)]

76. Guyonne Kalb. 2018. Paid Parental Leave and Female Labour Supply: A Review. *Economic Record* 94:304, 80-100. [[Crossref](#)]
77. Marie Laperrière, Ann Shola Orloff. Gender and Welfare States 227-244. [[Crossref](#)]
78. Roger M. White. 2018. There and Back Again The Performance Evaluation Effects of Going to and Returning from Part-Time Status. *SSRN Electronic Journal* . [[Crossref](#)]
79. Ron Haskins. 2018. Using Government Programs to Encourage Employment, Increase Earnings, and Grow the Economy. *SSRN Electronic Journal* . [[Crossref](#)]
80. Yana Gallen. 2018. Motherhood and the Gender Productivity Gap. *SSRN Electronic Journal* . [[Crossref](#)]
81. Ariel Binder. 2018. Inter-Generational Transmission and the 21st Century Rise in Skilled Mothers' Labor Supply. *SSRN Electronic Journal* . [[Crossref](#)]
82. Drew McNichols. 2018. Information and the Persistence of the Gender Wage Gap; Early Evidence from California's Salary History Ban. *SSRN Electronic Journal* . [[Crossref](#)]
83. Francisco Perez-Arce, Maria Prados, Tarra Kohli. 2018. The Decline in the U.S. Labor Force Participation Rate. *SSRN Electronic Journal* . [[Crossref](#)]
84. Reidar Øystein Strøm. 2018. The Norwegian Gender Balance Law. A Reform That Failed?. *SSRN Electronic Journal* . [[Crossref](#)]
85. Erkmen Giray Aslim, Irina Panovska, M. Annl Taa. 2018. Does Maternity Leave Affect Labor Force Participation and Productivity?. *SSRN Electronic Journal* . [[Crossref](#)]
86. David Brady, Thomas Biegert. The Rise of Precarious Employment in Germany 245-271. [[Crossref](#)]
87. Elena Stancanelli. 2017. Couples' retirement under individual pension design: A regression discontinuity study for France. *Labour Economics* 49, 14-26. [[Crossref](#)]
88. Jody Heymann, Aleta R. Sprague, Arijit Nandi, Alison Earle, Priya Batra, Adam Schickedanz, Paul J. Chung, Amy Raub. 2017. Paid parental leave and family wellbeing in the sustainable development era. *Public Health Reviews* 38:1. . [[Crossref](#)]
89. Santosh Mehrotra, Jajati K. Parida. 2017. Why is the Labour Force Participation of Women Declining in India?. *World Development* 98, 360-380. [[Crossref](#)]
90. Theodore B. Henry, Katia Marioni-Henry. 2017. Author Gender and Career Progression in Environmental Science & Technology. *Environmental Science & Technology* 51:17, 9417-9418. [[Crossref](#)]
91. Francine D. Blau, Lawrence M. Kahn. 2017. The Gender Wage Gap: Extent, Trends, and Explanations. *Journal of Economic Literature* 55:3, 789-865. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
92. Inés Hardoy, Pål Schøne, Kjersti Misje Østbakken. 2017. Children and the gender gap in management. *Labour Economics* 47, 124-137. [[Crossref](#)]
93. Nicole M. Fortin, Brian Bell, Michael Böhm. 2017. Top earnings inequality and the gender pay gap: Canada, Sweden, and the United Kingdom. *Labour Economics* 47, 107-123. [[Crossref](#)]
94. Nick Deschacht. 2017. Part-Time Work and Women's Careers: a Decomposition of the Gender Promotion Gap. *Journal of Labor Research* 38:2, 169-186. [[Crossref](#)]
95. Alexander Bick, Nicola Fuchs-Schündeln. 2017. Quantifying the Disincentive Effects of Joint Taxation on Married Women's Labor Supply. *American Economic Review* 107:5, 100-104. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
96. Patricia Cortes, Jessica Pan. 2017. Cross-Country Evidence on the Relationship between Overwork and Skilled Women's Job Choices. *American Economic Review* 107:5, 105-109. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]

97. Elizabeth Palley. 2017. Pregnancy Discrimination and the Law. *Affilia* 32:2, 188-201. [[Crossref](#)]
98. Toby L. Parcel, Lori Ann Campbell. 2017. Can the welfare state replace parents? Children's cognition in the United States and Great Britain. *Social Science Research* 64, 79-95. [[Crossref](#)]
99. Claudia Goldin, Joshua Mitchell. 2017. The New Life Cycle of Women's Employment: Disappearing Humps, Sagging Middles, Expanding Tops. *Journal of Economic Perspectives* 31:1, 161-182. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
100. Claudia Olivetti, Barbara Petrongolo. 2017. The Economic Consequences of Family Policies: Lessons from a Century of Legislation in High-Income Countries. *Journal of Economic Perspectives* 31:1, 205-230. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
101. Ron Haskins. 2017. Using Government Programs to Encourage Employment, Increase Earnings, and Grow the Economy. *SSRN Electronic Journal* . [[Crossref](#)]
102. David mname Brady, Thomas mname Biegert. 2017. The Rise of Precarious Employment in Germany. *SSRN Electronic Journal* . [[Crossref](#)]
103. Marianne Bertrand. 2017. The Glass Ceiling. *SSRN Electronic Journal* . [[Crossref](#)]
104. Katherine Lim. 2017. Self-Employment, Workplace Flexibility, and Maternal Labor Supply: A Life-Cycle Model. *SSRN Electronic Journal* . [[Crossref](#)]
105. Adam Evans, Harika Suklun, Sandy Nunn. 2017. Workplace diversity and intercultural communication: A phenomenological study. *Cogent Business & Management* 4:1, 1408943. [[Crossref](#)]
106. Linda L. Carli, Alice H. Eagly. 2016. Women face a labyrinth: an examination of metaphors for women leaders. *Gender in Management: An International Journal* 31:8, 514-527. [[Crossref](#)]
107. Claudia Olivetti, Barbara Petrongolo. 2016. The Evolution of Gender Gaps in Industrialized Countries. *Annual Review of Economics* 8:1, 405-434. [[Crossref](#)]
108. E. Mark Curtis, Barry T. Hirsch, Mary C. Schroeder. 2016. Evaluating Workplace Mandates with Flows Versus Stocks: An Application to California Paid Family Leave. *Southern Economic Journal* 83:2, 501-526. [[Crossref](#)]
109. Matthias Pollmann-Schult. 2016. What mothers want: The impact of structural and cultural factors on mothers' preferred working hours in Western Europe. *Advances in Life Course Research* 29, 16-25. [[Crossref](#)]
110. Stefan Bauernschuster, Timo Hener, Helmut Rainer. 2016. CHILDREN OF A (POLICY) REVOLUTION: THE INTRODUCTION OF UNIVERSAL CHILD CARE AND ITS EFFECT ON FERTILITY. *Journal of the European Economic Association* 14:4, 975-1005. [[Crossref](#)]
111. Loukas Balafoutas, Brent J. Davis, Matthias Sutter. 2016. Affirmative action or just discrimination? A study on the endogenous emergence of quotas. *Journal of Economic Behavior & Organization* 127, 87-98. [[Crossref](#)]
112. Siqi Han, Dmitry Tumin, Zhenchao Qian. 2016. Gendered transitions to adulthood by college field of study in the United States. *Demographic Research* 35, 929-960. [[Crossref](#)]
113. Tanya S. Byker. 2016. Paid Parental Leave Laws in the United States: Does Short-Duration Leave Affect Women's Labor-Force Attachment?. *American Economic Review* 106:5, 242-246. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
114. Elizabeth Palley. 2016. Social Work and Pregnancy Discrimination. *Social Work* 61:2, 179-181. [[Crossref](#)]
115. Maxine Eichner. Market-Cautious Feminism 141-187. [[Crossref](#)]
116. Cheti Nicoletti, Kjell G. Salvanes, Emma Tominey. 2016. The Family Peer Effect on Mothers' Labour Supply. *SSRN Electronic Journal* . [[Crossref](#)]

117. Lonnie Golden. 2016. Still Falling Short on Hours and Pay: Part-Time Work Becoming New Normal. *SSRN Electronic Journal* . [[Crossref](#)]
118. Lone Engbo Christiansen, Huidan Lin, Joana Pereira, Petia Topalova, Rima Turk. 2016. Individual Choice or Policies? Drivers of Female Employment in Europe. *IMF Working Papers* 16:49, 1. [[Crossref](#)]
119. Laura J. Owen. 2015. The choice of part-time employment in the United States and Canada, 1955–2000. *Labor History* 56:5, 643–669. [[Crossref](#)]
120. Bibhas Saha. 2015. Editorial Overview: Violence and Discrimination against Women. *Journal of Interdisciplinary Economics* 27:2, 152–159. [[Crossref](#)]
121. I. Boeckmann, J. Misra, M. J. Budig. 2015. Cultural and Institutional Factors Shaping Mothers' Employment and Working Hours in Postindustrial Countries. *Social Forces* 93:4, 1301–1333. [[Crossref](#)]
122. Emanuele Forlani, Elisabetta Lodigiani, Concetta Mendolicchio. 2015. Impact of Low-Skilled Immigration on Female Labour Supply. *The Scandinavian Journal of Economics* 117:2, 452–492. [[Crossref](#)]
123. Francine D. Blau. Gender, Economics of 757–763. [[Crossref](#)]
124. Sophie Ponthieux, Dominique Meurs. Gender Inequality 981–1146. [[Crossref](#)]
125. Tim Loughran, Bill McDonald. 2015. Old glass ceilings are hard to break: Gender usage trends in annual reports. *Studies in Communication Sciences* 15:1, 5–11. [[Crossref](#)]
126. Claudia Goldin. 2014. A Grand Gender Convergence: Its Last Chapter. *American Economic Review* 104:4, 1091–1119. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
127. Stéphane Cullati, Emmanuel Rousseaux, Alexis Gabadinho, Delphine S. Courvoisier, Claudine Burton-Jeangros. 2014. Factors of change and cumulative factors in self-rated health trajectories: A systematic review. *Advances in Life Course Research* 19, 14–27. [[Crossref](#)]
128. Mark Curtis, Barry T. Hirsch, Mary Schroeder. 2014. Evaluating Workplace Mandates with Flows versus Stocks: An Application to California Paid Family Leave. *SSRN Electronic Journal* . [[Crossref](#)]
129. Tim Loughran, Bill McDonald. 2014. Old Glass Ceilings are Hard to Break: Gender Usage Trends in Annual Reports. *SSRN Electronic Journal* . [[Crossref](#)]