

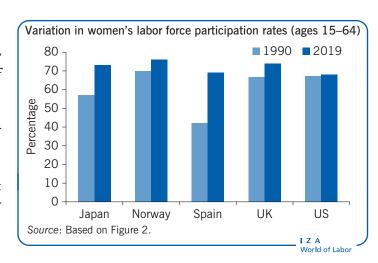
Women's labor force participation

Family-friendly policies increase women's labor force participation, benefiting them, their families, and society at large

Keywords: gender, women, labor force participation, family policies

ELEVATOR PITCH

Female labor force participation is mainly driven by the value of their market wages versus the value of their non-market time. Labor force participation varies considerably across countries. To understand this international variation, it is important to further consider differences across countries in institutions, non-economic factors such as cultural norms, and public policies. Such differences provide important insights into what actions countries might take to further increase women's participation in the labor market.



KEY FINDINGS

Pros

- Women's economic activity outside the home translates into improved outcomes for girls and women (improved health, reduced domestic violence for women), and society as a whole (greater economic growth).
- Women's labor market activity—not just entry, but also long-term attachment—provides the path for women to participate in the top echelons of academia, industry, government, and the nonprofit sector.
- Family-friendly policies (e.g. family leave and childcare subsidies) encourage women's labor force participation.

Cons

- Rising educational attainment by women does not always translate into increased labor force participation rates.
- While family-friendly policies may encourage women's labor force participation, they may also create unintended "glass ceilings", in other words, they may inhibit women's advancement to the top levels of their professions.
- It is difficult to discern if rising educational attainment causes increased labor force participation, or if women's rising labor force participation rates spur them to undertake additional educational investments.

AUTHOR'S MAIN MESSAGE

Women's labor market activity makes women and girls more economically valuable to their families and to society. While women's labor force participation rates have risen in many countries, rates remain quite low in some countries and regions. For the US, the rate has plateaued since the 1990s and it has declined relative to peer countries. Given societal benefits such as greater economic growth, governments have a compelling interest to undertake policies to encourage women's labor force participation. Parental leave and childcare subsidies are two such examples.

MOTIVATION

Women perform a substantial amount of unpaid work within the household, but it is paid work that translates into increased bargaining power in the household and raises families' standard of living as a whole. The 2000 UN Millennium Development Goals underscored the crucial role of women's paid labor market activity in enhancing economic development. These goals included "achieve universal primary education" (which is crucial, in that education is a key determinant of labor force participation) and "promote gender equality and empower women." The latter was to be achieved by increasing women's paid labor market activity, eliminating the gender gap in primary and secondary education, and increasing women's political participation.

While considerable progress was made by the target year of 2015, the desired change was far from complete. Effective as of 2016, the UN established a new set of goals called the Sustainable Development Goals, with a target date of 2030. These goals build on earlier efforts and seek to achieve gender equality and to continue efforts to empower all women and girls.

DISCUSSION OF PROS AND CONS

Benefits of women's paid labor market activity for girls

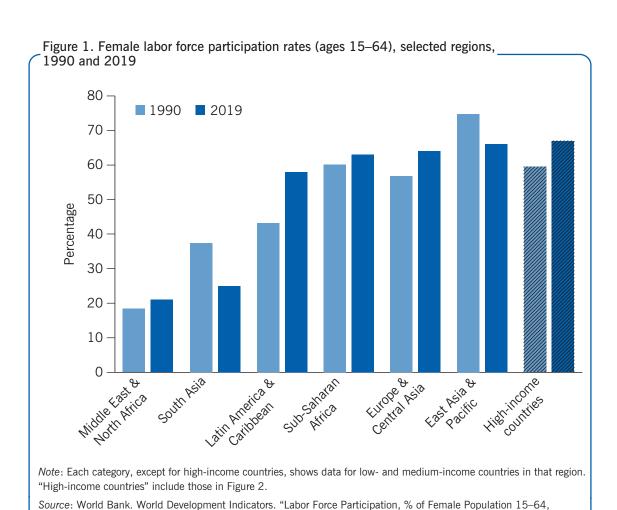
Girls and women directly benefit from women's paid work. At the most basic level, paid labor market activity has been found to increase girls' chances of surviving from birth into adulthood and reduce the number of "missing women," a phrase first used by Nobel Prize winner Amartya Sen in 1990 [1]. "Missing women" refers to the number of women who would be expected to be part of the population in the absence of sex-selective abortion and gender discrimination, that is, if girls were treated equally to boys. One example of the positive relationship between women's economic activity and girls' survival comes from a study that looked at the effect of economic reforms in rural China in the 1980s. These reforms spurred the production of tea, for which women have a comparative advantage (due to the fact that women have shorter stature than men and their fingers are more nimble). This study found that girls' survival rates increased in tea-growing regions (where women's labor was more economically valuable) relative to regions where men had a comparative advantage in production [2].

Women's labor market activity is especially crucial for girls in countries where they are culturally less valued (e.g. in India and China, to name just two of the largest), and are thus at the greatest risk of neglect (e.g. lack of adequate nutrition or health care). When women gain employment, their families have more money to devote to these more culturally marginalized family members (girls). Influential work by Nobel Prize winner Esther Duflo and others finds that mothers (and grandmothers) spend a larger share of their own resources on girls than do fathers. Thus, in countries that have traditionally favored boys, mothers' employment is especially beneficial for girls in terms of basic survival, nutrition, and health [3].

Lack of progress in closing the gender gap in education and employment represents lost economic opportunity, because women's potential is not being fully realized. Indeed evidence finds that gender gaps in education (which is a key determinant of women's labor force participation) reduce economic growth. Put differently, women's education and employment benefit society as a whole [4].

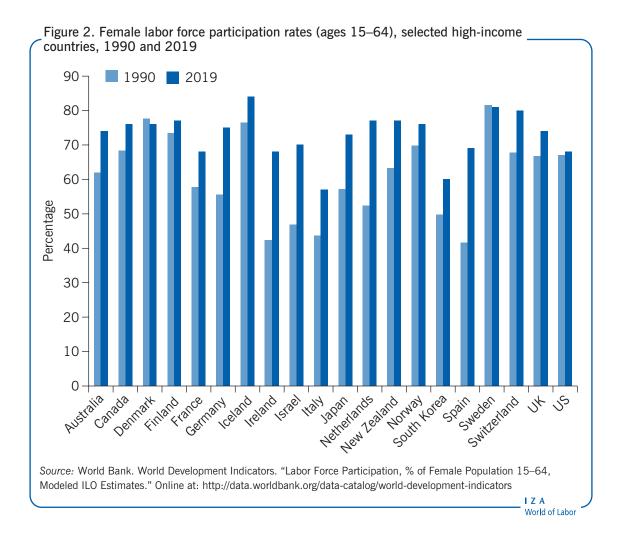
Evidence, patterns, and trends

While it is not all that surprising to observe variation in women's labor force participation around the globe (see Figure 1), participation varies even among a set of economically advanced countries that are relatively similar in many respects (Figure 2). This phenomenon can be seen when comparing rates for 20 countries in 1990 and 2019. While labor force participation rates generally, but by no means universally, increased, the relative position of countries has changed. For instance, over this period, women's labor force participation rates in the US changed little, while Canada, the UK, and Australia had similar rates to the US in 1990 but experienced a considerable increase by 2019. What is even more striking is that in 1990, countries including Ireland, Japan, and Spain had rates that were well below those of the US, but by 2019, they had rates equal to or in excess of the US rate. As shown in Figure 2, this means that the US female labor force participation rate is now among the lowest of the set of countries examined. One piece of the explanation, discussed later in this article, is that the US (increasingly) lags behind other countries when it comes to the adoption of family-friendly policies such as paid family leave and childcare assistance.



Modeled ILO Estimates." Online at: http://data.worldbank.org/data-catalog/world-development-indicators

World of Labor



What factors determine women's labor force participation?

A woman's decision to participate in the labor force is fundamentally determined by two sets of factors: those that affect the wage she can earn in the paid labor market (i.e. her market wage) and those that affect the reservation wage [5]. A primary determinant of the market wage is the level and quality of a person's human capital, most notably their education. Another major determinant of the market wage is labor force experience (the total amount of time spent in the labor market), especially the amount of time spent with the same employer, known as firm-specific human capital. Women's market wages also depend on the existing demand for their labor.

The reservation wage can be thought of as the value of time spent at home or, alternatively, the wage at which a woman is willing to enter the labor market. This amount varies inversely with husbands' income, and directly with greater availability of market substitutes for household production (e.g. purchased food and day care services) and household technology (e.g. the washing machine). The reservation wage is also affected by the presence of children, which is itself determined by the accessibility and affordability of birth control. Other determinants of the reservation wage include broader social norms as well as a family's preference for home versus market produced goods.

Finally, women's labor force participation is affected by government labor market, tax, transfer, and family policies, as well as by employer policies, which are discussed later on.

What explains differences in women's labor force participation across countries?

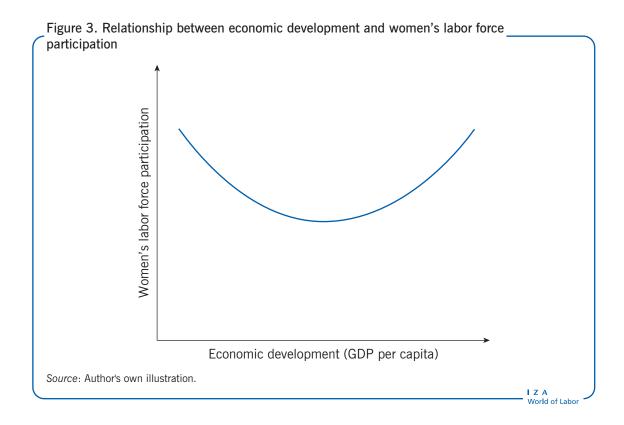
To explain the variation in female labor force participation activity—not only across, but also within regions—a broader set of factors need to be considered. These include, but are not limited to, non-economic factors (e.g. political ideology, differences in cultural expectations, and religion), the prevailing industrial mix and relative demand for female workers, stage of economic development, institutional features including differences in wage setting (more or less decentralized economic system), and differences in policies (e.g. labor market, tax and transfer, and family) [5], [6], [7].

Turning to non-economic factors first, with religion; in Catholic countries such as Italy and Spain, and Muslim countries such as Egypt, which tend to be more patriarchal, women's labor force participation rates tend to be lower. However, this factor (as is the case for other factors) is not fully determinative in light of the considerable rise in the labor force participation rate of Spain (Figure 2) and the relatively high rate of labor force participation in Indonesia, which like Egypt also has a large Muslim population. Political ideology also plays a role, as seen in the relatively high rates of female employment in the countries of the former Soviet Union. Another factor is social or cultural norms. These can take the form of gender expectations about women's and men's appropriate roles in the household and the family. For instance, if the prevailing attitude is that the "male should be the breadwinner and the woman should be the homemaker," rather than a more egalitarian view, it would be expected that women would have a lower labor force participation rate in that type of society. In some regions of the world, women's employment levels may also be lower due to limits placed on their abilities to directly interact with men or concerns about women's safety. Policies that are able to shift these norms or work around them may serve as potential levers to increase women's labor force participation [8].

Regardless of the reason, if the allocation of time in the household is very unequal, with women bearing the major responsibility for taking care of home and family, this burden itself is likely to lower their ability to participate in the paid labor force. Furthermore, even if women in those situations are employed, their attachment to the household likely affects the type of job they hold, the number of hours worked, and, in turn, their prospects for career advancement.

Differences in the industrial structure of the economy must also be considered to explain variations in women's labor participation across regions. A larger service sector, such as in the US, provides more substitutes for home production (e.g. home-produced meals, childcare) and offers greater opportunities for part-time employment, both of which are factors that facilitate women's entry into the labor force. A larger public sector also tends to provide more opportunities for female employment.

Another factor related to women's labor force participation is the country's stage of economic development. There is a sizable body of literature that points to a "U-shaped" relationship, according to which women's labor force activity is very high in the early stages of economic development as they tend to participate in subsistence agriculture, declines as the economy becomes more manufacturing-based, and then increases again as women gain education and move into white-collar jobs (Figure 3). For the US, the upturn in the "U" is explained by the increased demand for clerical workers in the first part of the 20th century [9]. For a more recent example, studies point to the dramatic growth of IT "call centers" in India as having a similar impact on women's labor force participation rates there [10].



As noted, labor market, tax, transfer, and family policies also matter. For instance, labor market policies aimed at ensuring equal opportunities for women in the labor market such as anti-discrimination laws as well as policies targeted at advancing women to top positions such as corporate board quotas (requirements that women hold a specified percentage of board member positions) are expected to positively influence women's decision to participate in the labor market. Turning to tax policy, the structure of the income tax in a number of countries creates a "secondary earner penalty," whereby the labor market return for the wife, typically the secondary earner, is lowered, thereby discouraging her labor force participation. For instance, the US and Germany are two of only a handful of economically advanced countries that have a tax structure where the family is considered the unit of taxation. A progressive tax code combined with this tax structure creates a secondary earner penalty because a wife's first dollar of earnings is taxed at the top rate of her husband's last dollar. In fact, even in countries where the individual is the unit of taxation, the income tax structure may still impose a secondary earner penalty if there is a dependent credit or allowance that is reduced or eliminated when a spouse enters the labor force or increases his/her number of working hours. Japan long had such a structure though it recently modified it to explicitly encourage female labor force participation [11]. Other tax policies, such as the Earned Income Tax Credit in the US, encourage women's labor force entry by providing an earnings subsidy for low-earner families.

The role of family policy in increasing women's paid labor market activity

One lever to encourage women's labor force participation is the adoption of policies that help workers, especially mothers, who remain the primary caretakers of children, to

better balance paid work and family. Focusing on the OECD countries, the most generous of these policies are offered by the Nordic countries (Denmark, Finland, Iceland, Norway, and Sweden) [6], [12], [13].

In terms of leave, all OECD countries except the US offer some form of paid family leave. Family leave is typically offered as some combination of maternity leave, paternity leave, and parental leave (leave that can be taken by either parent). These policies vary considerably across countries with respect to leave duration and the replacement rate that is paid in lieu of the parent's former wage. Just looking at variation in the duration of paid leave, Sweden offers as much as 15 months while the US offers no federal paid leave (and only mandates 12 weeks of federal unpaid leave)

Mothers are much more likely than fathers to make use of available leave policies. Leave policy gives workers the opportunity to return to their pre-leave job/employer; this raises labor force participation rates and helps workers retain firm-specific capital that subsequently translates into higher wages. However, such leave policies—if overly generous—have the potential to work against women, as discussed in further detail below.

An innovative type of leave is called a "father's quota" or "daddy leave." Nordic countries first initiated this type of leave in the 1990s and have since extended its length. For instance, in Norway the leave has been expanded from 4 to 15 weeks. It has also been adopted in Quebec, Canada, among other places. The unique feature of a "father's quota" is that it is designed as a "take it or leave it" type of offer. In other words, unlike the case of parental leave, the quota leave time cannot be shifted to the mother. This design encourages fathers to take the leave and reduces the stigma of doing so since it is specifically put in place for them. As fathers take (longer) leaves to care for children, thereby (more fully) sharing the responsibility with mothers, this policy should increase gender equality in the workplace. Fathers' increased time spent with children is also expected to have positive impacts on their children's development [13].

Another policy that unambiguously supports women's labor force participation is childcare assistance, either via publicly provided childcare or through government or firm subsidies. Again, there is considerable variation across countries. The percentage of GDP devoted to childcare for infants through to the age of three is highest in Sweden and Denmark while, in sharp contrast, the US is among the least generous [6]. In the US, childcare assistance is largely provided through tax credits, and for children in lower-income families, some funding is available through federal block grants and an early childhood program called Head Start.

The extent to which both female and male workers are able to share the responsibility of caring for children, elderly parents, and the household is improved by policies that support workplace flexibility, either through part-time work or by means of a policy adopted in some countries that gives workers with children the "right to request" flexible or reduced hours. As with "too much" paid leave, these policies also have potential downsides for women in the labor force, as discussed shortly.

Employers may also offer other policies that help facilitate women's labor force participation (and, in fact, help all workers better balance the dual demands of paid work and family). One such policy is "flextime." This type of policy allows workers to make changes such as shifting the starting or ending time of the workday, or permits workers to work more hours over fewer days. Another such policy is telecommuting or home-based

employment. Computers and other advancements in IT contributed to a modest rise in such arrangements prior to the Covid-19 pandemic. However, it is the sudden onset of the pandemic in March 2020 and the accompanying stay-at-home orders that triggered a sizable shift to this arrangement for many white-collar workers. Now that firms and workers have adapted to this work arrangement, it is likely to remain available for workers, at least to some degree, going forward. To promote gender equality in the workplace, it is important that employers encourage both women and men to utilize these options [5].

One study, which looked at women's labor force participation in 22 OECD countries over a 20-year period from 1990 to 2010, found that women's participation rates in the US fell considerably relative to peer nations, a pattern that can also be seen in the longer 30-year period from 1990 to 2019 (Figure 2). For the earlier period, 1990 to 2010, the authors of the study attribute this relative decline to the fact that the US lagged behind other countries in the adoption of federal-level family-friendly policies [14]. It is worth noting that as of 2019 the US had still not adopted federal paid leave, though several US states, including California, had moved forward with state-level paid leave..

Still, policies to help balance women's paid work and family can negatively affect their career progress and must be weighed against their benefits [14]. For instance, leaves that are "too long," say a year or more, may encourage workers to remain away from their jobs longer than they might otherwise have done, thereby reducing their human capital, and in turn, limiting future opportunities for career advancement. Part-time work is also problematic; while it keeps women in the labor market, it is full-time employment that is the necessary (albeit not sufficient) key to moving up the career ladder. Moreover, these types of policies may have contributed to the presence of a "glass ceiling," a set of subtle barriers that inhibit women's career advancement [5]. For instance, in Sweden, which provides a long period of paid leave as noted above, women tend to be disproportionately employed in "female" white-collar jobs in the public sector, which offer fewer opportunities for career advancement. Further, if the length of parental leaves is too long (again, around a year or more) or if the "right to request" flexible hours is too costly, firms may avoid hiring women, especially for positions high up on the career ladder that involve a long-term full-time commitment.

Women's rising educational attainment, labor force participation, and prospects for career advancement

Women's labor force participation rates have been found to be strongly positively associated with rising educational attainment [5]. What is especially striking is that women now make up a larger fraction of college students in all economically advanced countries, and this is even true in some developing countries. The positive association between educational attainment and labor force participation could be due to one of two reasons: women who invest in education are those most likely to enter and remain in the labor force in order to recoup their return on that investment; or, women who anticipate long labor force attachment are most likely to pursue higher education. A notable exception to this pattern is the Middle East and North Africa. In that region, women's rising educational attainment has not generally translated into higher participation rates. One explanation is that women's mobility may be limited due to concerns about their safety and "purity" [8].

For married couples in the US, as well as in a number of other economically advanced countries, studies have also found that women's labor force participation rates are quite

high even for college-educated women married to college-educated men [15]. This latter finding points to the strong "pull" of women's own labor market opportunities; the pull is strong enough that it offsets the effect of their husbands' high earnings, which serves to increase their wives' reservation wage.

Raising women's labor force participation is the crucial first step in women's advancement. Labor market experience is critical for developing the skills necessary to advance up the ranks professionally, whether in government, industry, nonprofit, or academia. General labor market experience is valuable, and beyond this, if workers remain with the same employer, they gain additional valuable firm-specific human capital. However, it is still the case that equally qualified women—those with the same level of labor market experience and similar other measured human capital—remain underrepresented at the upper echelons of industry, government, and so on, pointing to differential employer treatment (i.e. labor market discrimination) [5]. The fact that women remain underrepresented in top positions suggests the need for policies to facilitate their ability to climb the corporate ladder. In addition to family leave and childcare subsidies, such policies might include the stronger enforcement of anti-discrimination laws and corporate board quotas.

LIMITATIONS AND GAPS

International comparisons of labor force participation rates must be regarded with some degree of caution. First, the age distribution of the population differs across countries, and so does the age distribution of the labor force. Individuals aged 25 to 54 (typically regarded as the "prime age" for employment) are the group most likely to be in the labor force. Countries may also differ with respect to the age at which young people usually enter the labor market, which partly depends on college attendance. Additionally, countries may differ on the age at which older people typically exit the labor market, which partly depends on access to retirement funds or familial support.

Second, as with many relationships, it is difficult to disentangle causation from correlation. Is it the case that women's educational attainment spurs labor force activity, or is it rather women's anticipated degree of labor force attachment that leads to educational investment? A similar set of issues arises when thinking about the relationship between fertility and female labor force participation. The presence of small children deters labor force participation because they increase the value of home time, and hence, the reservation wage. On the other hand, it would be expected that as female labor force participation (and the associated wage) increases, the opportunity cost of having children also rises, thereby reducing the demand for children. As a final example, cultural attitudes such as the view that "men should be the breadwinner and women should be the homemaker" clearly discourage women's labor force participation. However, increased labor force participation by women likely helps alter prevailing attitudes about what are considered appropriate roles for both males and females. The implication of this discussion is that researchers need to utilize research methods that can clearly identify the direction of these relationships.

SUMMARY AND POLICY ADVICE

Women's labor force participation rates have risen across the globe, which bodes well for women, children, families, and society. However, progress is clearly very uneven, and rates have plateaued in the US. Family-friendly policies represent one lever that can be

used to increase women's participation. Father quotas seem to be an especially promising policy. However, in selecting the "mix" of family policies, policymakers must be careful to recognize that the benefits of some family-friendly policies such as longer paid maternity and parental leaves and policies such as the right to request flexible hours may have unintended negative consequences for women's career advancement. It is also the case that women continue to bear greater responsibility for care of the home and family. Childcare subsidies are one way to reduce this unequal burden, and in turn, facilitate women's labor force participation and career advancement.

Acknowledgments

The author thanks two anonymous referees and the IZA World of Labor editors for many helpful suggestions on this and the previous version. Previous work of the author contains a larger number of background references for the material presented here and has been used intensively in all major parts of this article [5]. Version 2 updates the text, the "Illustration on p. 1," "Figure 1," and "Figure 2," and adds new and updates existing "Further reading" and "Key references" [4], [5], [7], [8], [11], [12].

Competing interests

The IZA World of Labor project is committed to the IZA Code of Conduct. The author declares to have observed the principles outlined in the code.

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REFERENCES

Further reading

Heath, R., and R. Jayachandran. "The causes and consequences of increased female education and labor force participation in developing countries." In: Averett, S. L., L. M. Argys, and S. D. Hoffman (eds). *The Oxford Handbook of Women and the Economy*. New York: Oxford University Press, 2018.

World Economic Forum. The Global Gender Gap Report 2020. Geneva: World Economic Forum, 2019.

Key references

- [1] Sen, A. "More than 100 million women are missing." The New York Review of Books, 1990.
- [2] Qian, N. "Missing women and the price of tea in China: The effect of sex-specific earnings on sex imbalance." *Quarterly Journal of Economics* 123:3 (2008): 1251–1285.
- [3] Duflo, E. "Women empowerment and economic development." *Journal of Economic Literature* 50:4 (2012): 1051–1079.
- [4] Klasen, S. "The impact of gender inequality on economic performance in developing countries." *Annual Review of Resource Economics* 10 (2018): 279–298.
- [5] Blau, F. D., and A. E. Winkler. *The Economics of Women, Men, and Work*. New York: Oxford University Press, 2021.
- [6] Thévenon, O. *Drivers of Female Labour Force Participation in the OECD*. OECD Social, Employment and Migration Working Papers No. 145, 2013.
- [7] Klasen, S. "What explains uneven female labor force participation levels and trends in developing countries?" *The World Bank Research Observer* 34:2 (2019): 161–197.
- [8] Jayachandran, S. Social Norms as a Barrier to Women's Employment in Developing Countries. NBER Working Paper No. 27449, 2020.
- [9] Goldin, C. "The U-shaped female labor force function in economic development and economic history." In: Paul Schultz, T. (ed.). *Investment in Women's Human Capital and Economic Development*. Chicago: University of Chicago Press, 1995.
- [10] Jensen, R. "Do labor market opportunities affect young women's work and family decisions? Experimental evidence from India." *Quarterly Journal of Economics* 127:2 (2012): 753–792.
- [11] OECD. Taxing Wages. Paris: OECD, 2021.
- [12] OECD. Is the Last Mile the Longest? Economic Gains from Gender Equality in Nordic Countries. Paris: OECD, 2018.
- [13] Boll, C., J. Leppin, and N. Reich. "Paternal childcare and parental leave policies: Evidence from industrialized countries." *Review of Economics of the Household* 12:1 (2014): 129–158.
- [14] Blau, F. D., and L. M. Kahn. "Female labor supply: Why is the US falling behind?" *American Economic Review, Papers and Proceedings* 103:3 (2013): 251–256.
- [15] England, P., J. Gornick, and E. S. Fitzgibbons. "Women's employment, education, and the gender gap in 17 countries." *Monthly Labor Review* (2012): 3–12.

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