

The Gender Pay Gap

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• This slide deck was reviewed by:

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- What is gender wage gap?
- Gender wage gap in numbers.
- What are the potential causes for this gender wage gap?
- What can we do?



The Issue of Gender Wage Gap

"We have to pass pay equity for women workers. It is not acceptable that women are making 78 cents an hour compared to men."

-- Sen. Bernie Sanders (I-Vt.), speech to the National Press Club, March 9, 2015

"...42% [women] in the United States say they have faced discrimination on the job because of their gender... One of the biggest gender gaps is in the area of income: ...25% [women] say they have earned less than a man who was doing the same job.."

-- 2017 Pew Research Center survey



Popular Theories

- Occupational segregation
- Biased managers and co-workers
- Inferior bargaining skills
- Lack of competitiveness
- Labor market incentives
- And more

We will delve deeper into what is meant by the gender wage gap and how economists think about the issue.



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Significant strides have been made



- The Fair Labor Standards Act of 1938,
- The Equal Pay Act of 1963,
- Title VII of the Civil Rights Act of 1964, and
- The Pregnancy Discrimination Act of 1973 in conjunction with
- Affirmative Action and other movements aimed at diversity
- But not much since the 1970s.



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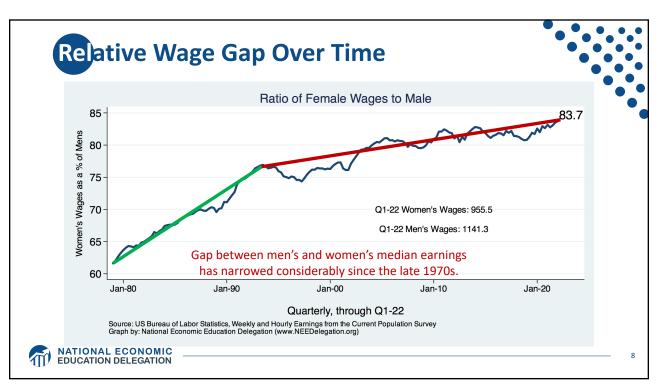


- Gender wage gap represents the difference in average earnings of women relative to those of men.
- The gap is usually calculated as a ratio of women's earnings to men's earnings.
 - For example, in Q1, 2022, median weekly earning for full-time women workers was \$955.5, and that for men was \$1,141.3.
 - Therefore, the gender wage gap in Q1 2022 was:

$$\frac{\$955.5}{\$1,141.3} = 83.7\%$$



/







- Relatively more women in jobs with collective bargaining.
 - Falling for both since 1981, but more for men than women.
- Women are getting more education than men.
- Women's devotion to the labor market is growing.



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- Average wage comparison based on a limited sample. Men and women:
 - Working full time
 - Working year round
- Wage gap is not: Apples to Apples
 - Does not compare wages of men and women in the same occupation or industry.



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What Does the Wage Gap Capture?



• It reflects gender differences in:

- jobs,
- hours worked,
- years of experience,
- educational attainment,
- or personal choices that people make about their careers,
- and discrimination.

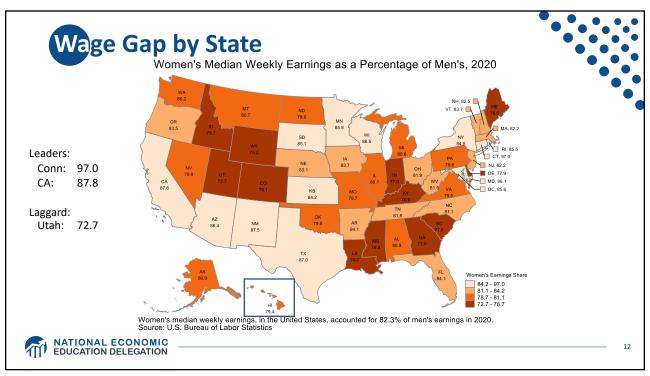
Which begs the question of why the non-discrimination aspects differ by gender?

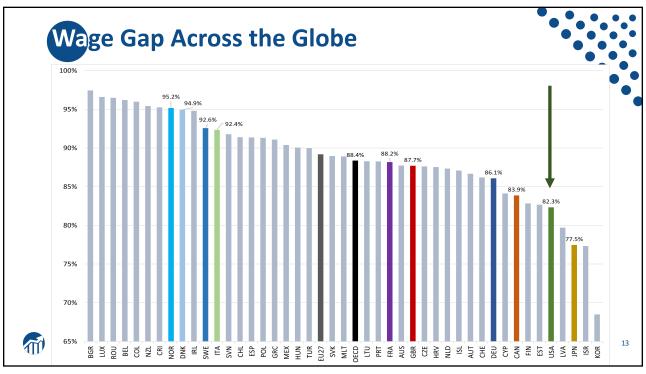
- Discrimination?
- The structure of our economic system?



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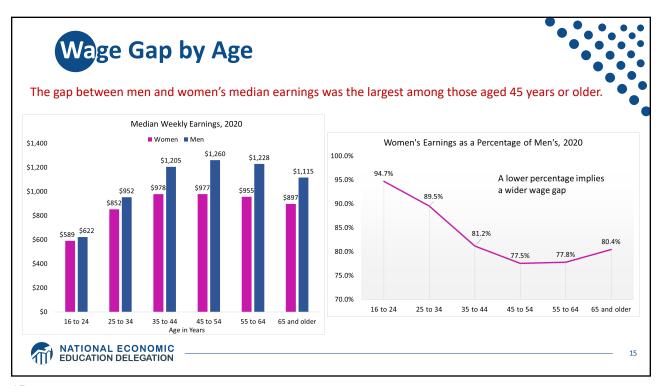


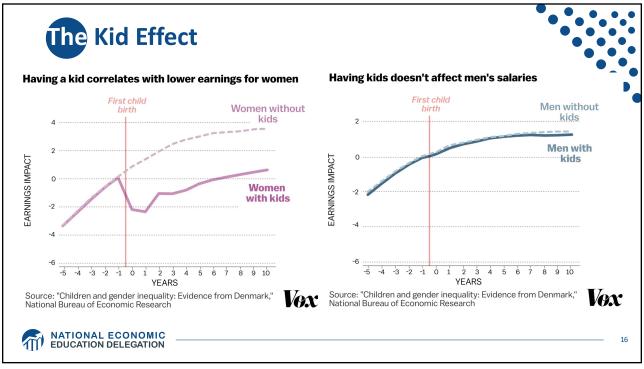
What is NOT included in these calculations?

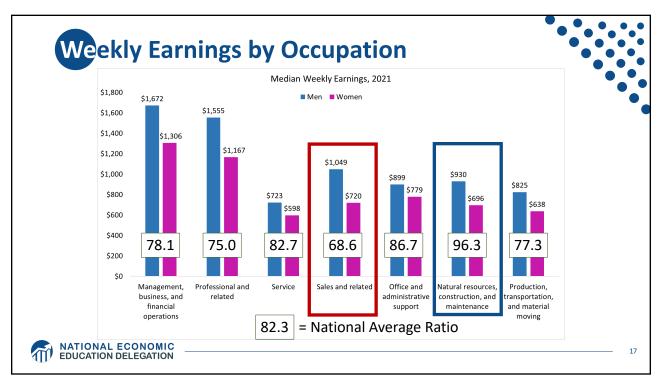
- These are unconditional or uncontrolled or raw wage gap.
- The difference doesn't take into account important determinants of earnings such as:
 - Age
 - Occupation
 - Educational attainment
 - Job skills and responsibilities
 - Work experience
 - Specialization
- Gender wage gap is not a single statistic; it is dynamic.



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These are Still Unadjusted Wage Gap Numbers

- In the previous slides we controlled for one factor at a time that might affect earnings of workers.
- However, controlling for just one of the factors may not fully explain earnings differences.
- For example, when comparing median earnings differences by occupation, we still would like to know if these differences can be further explained by differences in other key factors such as
 - age,
 - job responsibilities,
 - work experience, and
 - other individual life choices such as marital status or to have children and to take time off to raise them.



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Adjusting the Wage Gap

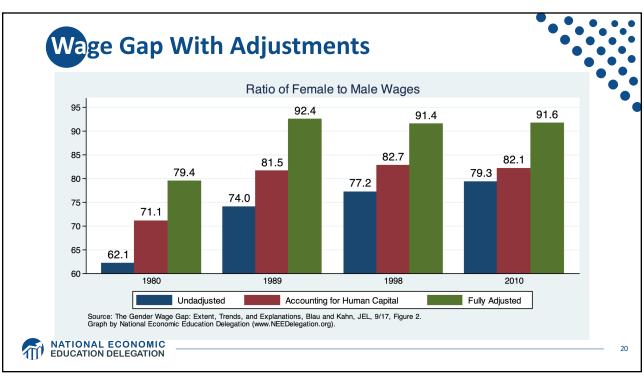
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- Men and women make different choices. It is possible to account for some of those choices to explain the wage gap.
- Two possible adjustments:
- Adjustment 1 accounts for human capital:
 - Education
 - Experience
 - Geographic region
 - Race

- Adjustment 2 also accounts for:
 - Unionization
 - Industry
 - Occupation



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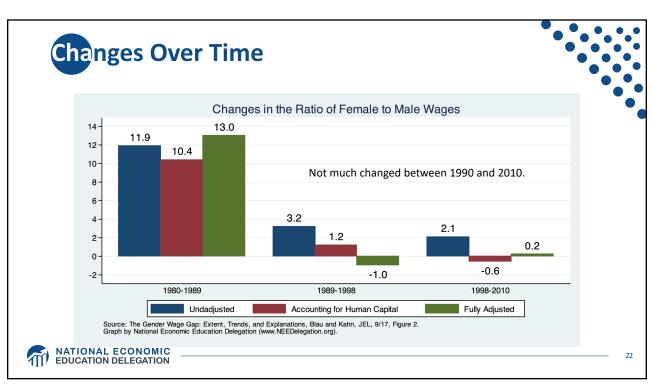




- or the
- Human capital decisions, as well as region and race, matter for the wage gap.
- Ultimate job matters:
 - Is it unionized?
 - Is it an industry with a large gap?
 - Is it an occupation with a large gap?
- Still 10% unaccounted for.
 - Is this discrimination?
 - o Perhaps, but not all of it.
 - Labor market decisions are influenced by discrimination or perceptions of women's vs men's majors, occupations, or industries.



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Explaining Gender Wage Gap by Occupation

- Women, traditionally, the "on-call" parent.
- Prefer occupations with:
 - shorter hours,
 - fewer "on-call" hours,
 - predictable schedules
 - standardized products/services
 - o greater substitutability of workers within teams
- Men, traditionally, opt for jobs with greater time demands that pay more.
- Men appear to care less about time flexibility.
 - Ready to work evening/weekend hours to meet clients



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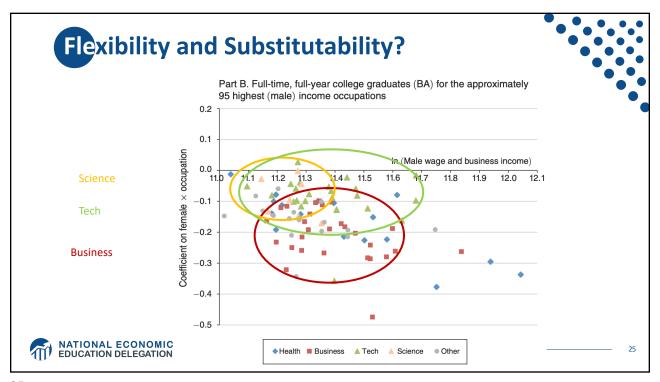
Explaining Gender Wage Gap by Occupation

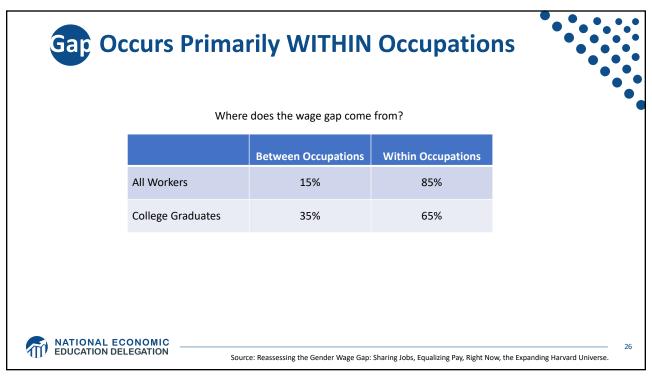


- High time demand occupations:
 - Contact with others
 - Frequency of decision making
 - Time pressure
 - Structured vs. unstructured work
 - Establishing and maintaining interpersonal relationships
- Level of competition within an occupation
- Income inequality among men within an occupation.
 - Leads to a higher gender wage gap.

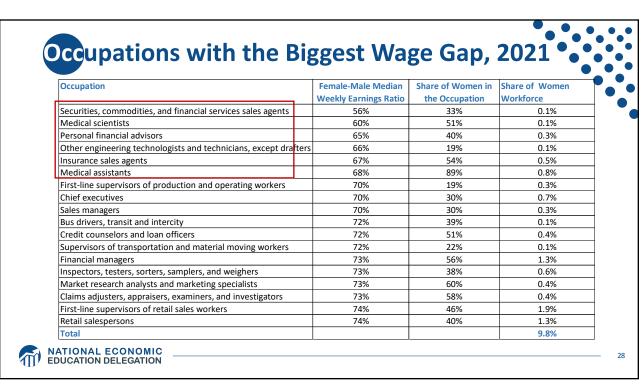


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Occupations with the	ne Smallest	wage Ga	ip, ZUZI•
Occupation	Female-Male Median	Share of Women in	Share of Women
	Weekly Earnings Ratio	the Occupation	Workforce
Compliance officers	107%	50%	0.3%
Graphic designers	106%	51%	0.2%
Clinical laboratory technologists and technicians	104%	65%	0.4%
Pharmacists	104%	54%	0.3%
nsurance claims and policy processing clerks	102%	77%	0.4%
Billing and posting clerks	101%	87%	0.7%
eaching assistants	100%	86%	1.3%
urchasing agents, except wholesale, retail, and farm pr	oducts 100%	62%	0.3%
ashiers	99%	72%	1.7%
ast food and counter workers	98%	64%	0.3%
us drivers, school	98%	55%	0.1%
tockers and order fillers	97%	35%	0.8%
ostal service mail carriers	97%	40%	0.2%
harmacy technicians	97%	77%	0.4%
olice officers	96%	15%	0.2%
Computer programmers	96%	20%	0.2%
Vholesale and retail buyers, except farm products	96%	55%	0.1%
Aiscellaneous agricultural workers	96%	17%	0.2%
ndustrial truck and tractor operators	96%	9%	0.1%
computer support specialists	96%	24%	0.3%
hysical therapists	95%	64%	0.3%
ackers and packagers, hand	95%	57%	0.6%
otal			9.3%







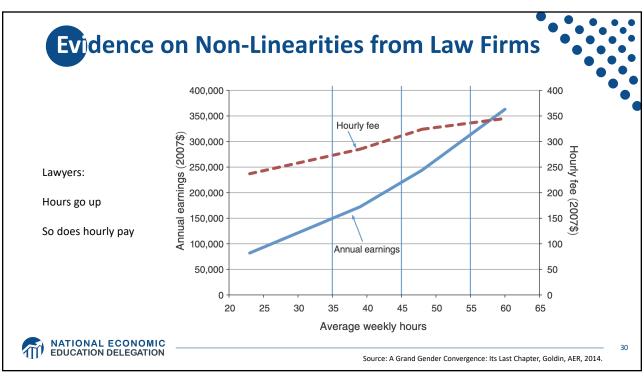
- Pay increases with the number of hours worked each week.
 - Why?
 - o In some occupations, workers are not good substitutes for each other.
 - To ensure continuity, employers value individual workers working more hours.
 - Implications:
 - o Households divide the work.
 - Rather than both working 40 hours, perhaps one works 80 and the other does not work.
 - Women are more likely to be the ones working fewer hours, receiving less pay.



Source: Reassessing the Gender Wage Gap: Sharing Jobs, Equalizing Pay, Right Now, the Expanding Harvard Universe.

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Sorting happens:

- With the decision to go to college.
- With the election of a major.
- With the choice of an occupation.

Women tend to:

- Go to college more than men.
- Select majors with lower expected wages.
 - o Though convergence WAS happening.
- Within a major, select occupations with lower wages.
 - o Though convergence IS happening.



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Solutions to the Gender Wage Gap



Debiasing the labor market

- Diversity training for supervisors and managers.
- Changing the organizational culture.
- Gender blind hiring/evaluation procedures.
- Training women to be more competitive and removing unconscious bias.
- Legislative actions by federal and state governments.



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The System - Not Individual Bias is the Culprit

- The "system" is characterized by:
 - Decisions made by ordinary couples in terms of being on-call at work or at home.
 - Cost of time flexibility at work.
- The higher the cost of time flexibility, the higher is the likelihood of a couple to forego equity in favor of higher family income.
- Substitution among workers needs to be encouraged in occupations with high gender pay gaps.



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Private Sector is Responding...Slowly



- With more women entering the profession.
- More men wanting equitable relationships with their life partners.
- Costly job training.
- Valuable client-employee relationships formed by the women in early years.

Firms have incentive to retain the female employees now more than ever.







- Reduce the cost of flexibility
- Increase or incentivize substitutability
- Reduce the cost of caregiving childcare as well as elderly care
- Alter societal norms

"We need men to lean out at work, support their male colleagues who are on parental leave, vote for public policies that subsidize childcare, and get their firms to change their greedy ways by letting them know that their families are worth even more than their jobs. Dreams won't come true, aspirations won't be realized unless men are brought along for the rest of the journey."

-- Claudia Goldin



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What Have We Learned?



- The gap is significant and seemingly stubborn.
 - Some, but not very much progress in the last 20 years.
- Discrimination clearly plays a role, but we can't identify how much.
 - In wage setting, in people's choices, as a result of market structures.
- Gender roles in child rearing play an enormous role.
- Government policy can help, by:
 - Implementing policies that reduce the child-bearing penalty for women.
 Access to childcare, for instance.
 - Influencing the structure of labor markets, the workplace, hiring practices, and job flexibility.
 - Generally, address the hours/compensation relationship.



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Available NEED Topics Include:

- US Economy
- Healthcare Economics
- Climate Change
- Economic Inequality
- Economic Mobility
- Trade and Globalization
- Minimum Wages

- Immigration Economics
- Housing Policy
- Federal Budgets
- Federal Debt
- Black-White Wealth Gap
- Autonomous Vehicles
- US Social Policy



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Any Questions?

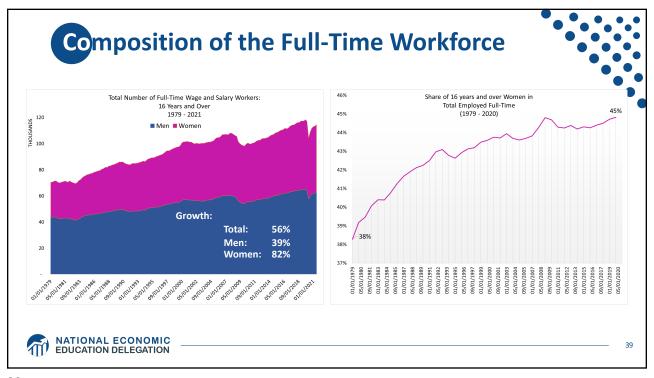
www.NEEDelegation.org Jon D. Haveman, Ph.D. Jon@NEEDelegation.org

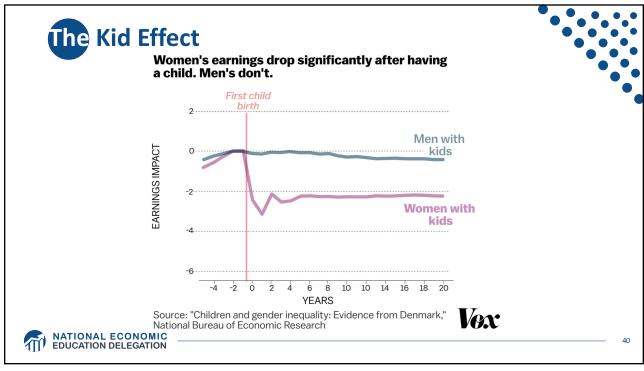
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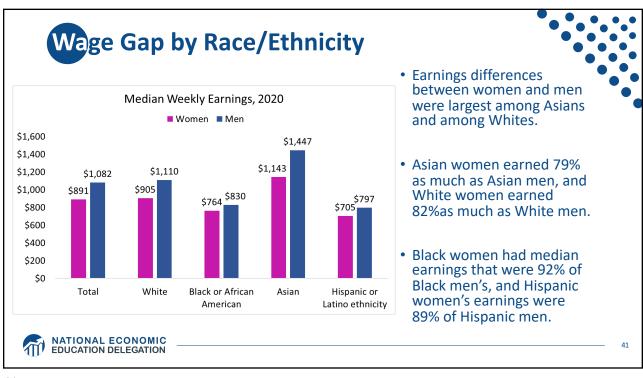
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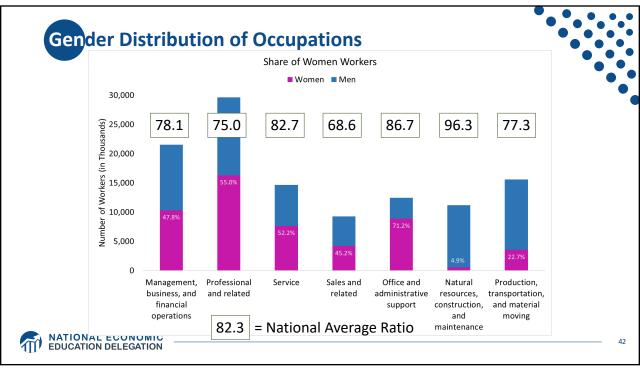
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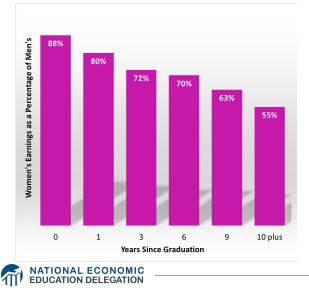








Wage Gap Widens with Age and with Years After Leaving School



- From Bertrand, Goldin, Katz (2010)
- Directly following MBA receipt, average earnings are comparable among men and women, but they soon diverge.
- In the first 9 years after graduation, women's average earnings increase by 117%, while those of men increase by 208%.

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Wage Gap Among MBA Graduates Not Random

- The sample controls for ability, training and education.
- Almost all the gap can be explained by:
 - Career interruptions.
 - Differences in average weekly work hours.
 - o 49 hrs vs 57 hrs for men.
 - o More part-time, self-employed workers.
- The gap grows largely with the arrival of children.
 - Well-intentioned paternalism by supervisors.
 - Husband's position on the earnings distribution and its interaction with children also a factor.
- Several studies, even those from Nordic countries, support these results.



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Gap Occurs Primarily WITHIN Occupations



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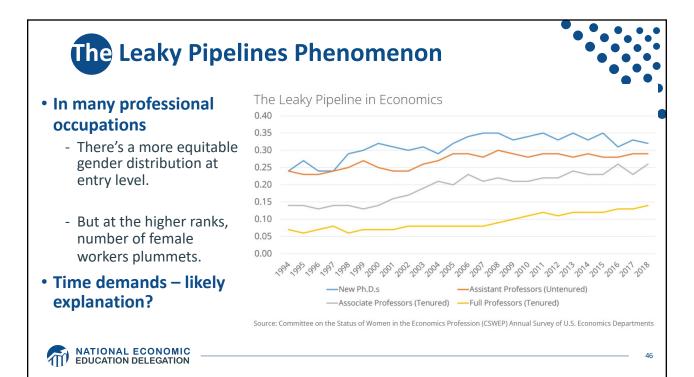
- Not all occupations have the same pay gap.
 - Depends on how substitutable workers are.

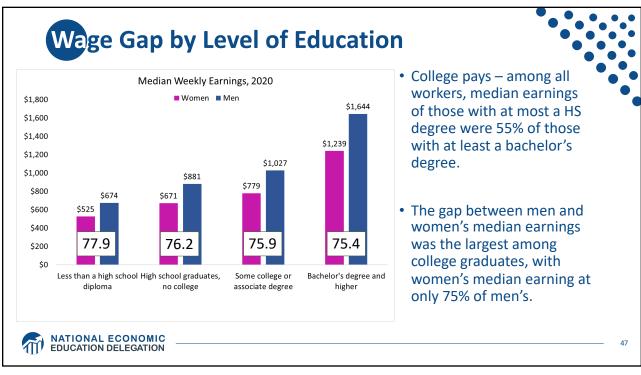
	Ratio W/M Wages
Science and Health Professions	.892
Business and Finance	.787
Law	.815
OVERALL	.780

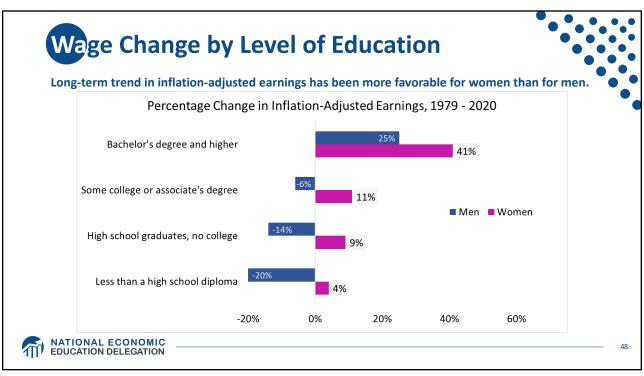


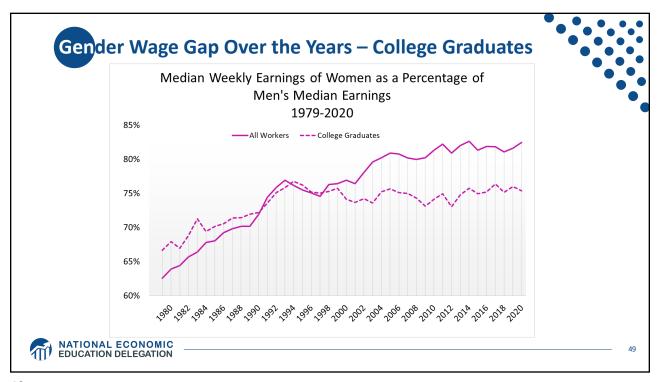
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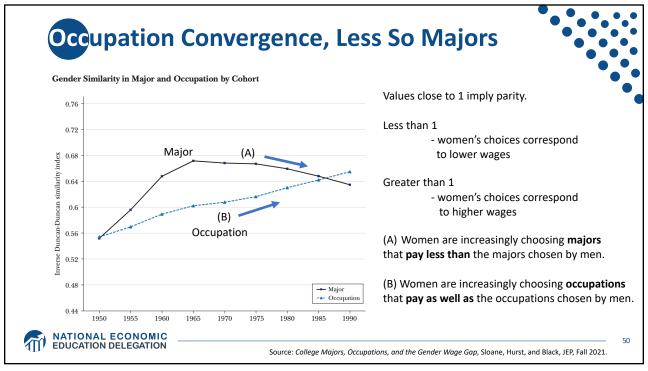
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Earnings Penalty for Taking Time Out



- Occupations with the largest wage gap tend to also be highly skilled.
- Earnings penalty for taking time out for career paths with the most prestigious degrees is generally very high.
- Goldin and Katz (2008), Harvard and Beyond study: Earnings penalty for taking time off, at 15 years since leaving college with a Bachelors:
 - Lowest for MDs
 - Highest for MBAs at 1.4 times the penalty for MDs
 - Followed by JDs and PhDs at 1.2 times the penalty for MDs
- Women with children tend to do less well than men.



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Time Demand Tradeoffs and COVID-19



- COVID-19 may have accelerated some of the trends towards more workplace flexibility.
- Remote work may have lasting beneficial impact on all workers, including women.
- But there may also be losses.
 - WFH = Working from Home or Working from Hell?
- Women's attachment to labor market at risk due to:
 - Difficulty in obtaining affordable, dependable childcare.
 - Unpredictability in school closures/re-openings.



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