



The Gender Pay Gap

American Association of University Women

February 7, 2024

Jon Haveman, Ph.D.





1

National Economic Education Delegation

Vision

- One day, the public discussion of policy issues will be grounded in an accurate perception of the underlying economic principles and data.

Mission

- NEED unites the skills and knowledge of a vast network of professional economists to promote understanding of the economics of policy issues in the United States.

NEED Presentations

- Are **nonpartisan** and intended to reflect the consensus of the economics profession.



- 2

Who Are We?

Honorary Board: 54 members

- 2 Fed Chairs: Janet Yellen, Ben Bernanke
- 6 Chairs Council of Economic Advisers
 - o Furman (D), Rosen (R), Bernanke (R), Yellen (D), Tyson (D), Goolsbee (D)
- 4 Nobel Prize Winners
 - o Akerlof, Smith, Maskin, Bernanke

• Delegates: 652+ members

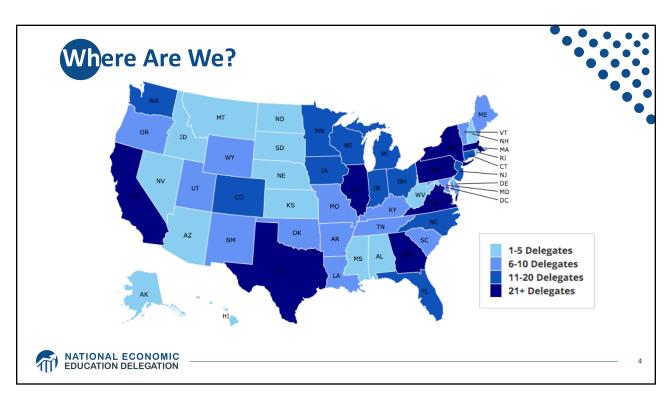
- At all levels of academia and some in government service
- All have a Ph.D. in economics
- Crowdsource slide decks
- Give presentations

• Global Partners: 49 Ph.D. Economists

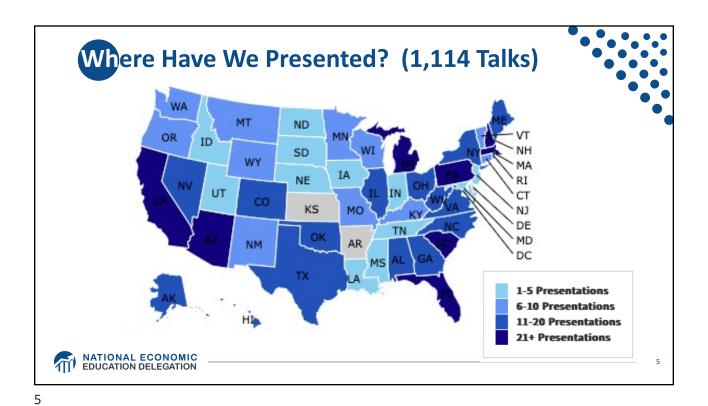
- Aid in slide deck development



3



4



Available NEED Topics Include:



- US Economy
- 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
- Gender Wage Gap



6

Credits and Disclaimer



- This slide deck was authored by:
 - Mallika Pung, University of New Mexico
 - Jon Haveman, NEED
- This slide deck was reviewed by:
 - Donna Ginther, University of Kansas
- Disclaimer
 - NEED presentations are designed to be nonpartisan.
 - It is, however, inevitable that the presenter will be asked for and will provide their own views.
 - Such views are those of the presenter and not necessarily those of the National Economic Education Delegation (NEED).



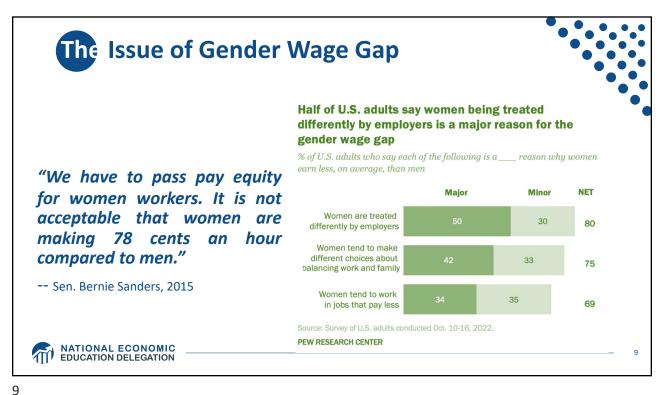






- What is the gender wage gap?
- The gender wage gap in numbers.
- What are the potential causes for this gender wage gap?
- What can we do?





Popular Theories



- Occupational segregation
- 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.



10

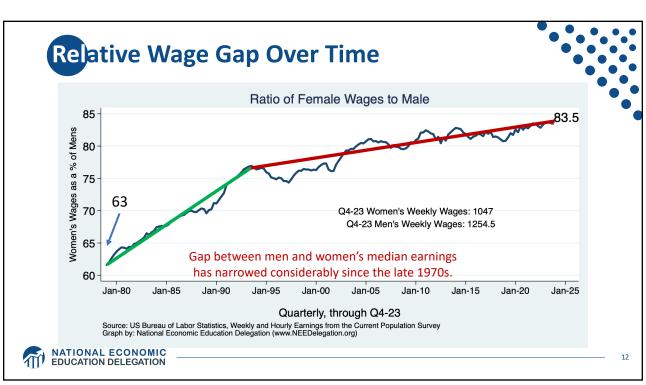


- of women
- Gender wage gap represents the difference in median earnings of women relative to those of men.
- The gap is usually calculated as a ratio of women's earnings to men's earnings.
 - For example, in the fourth quarter of 2023, median weekly earning for full-time female workers was \$1,047, and that for male was \$1,254.
 - Therefore, the gender wage gap in Q4, 2023 was:

$$\frac{\$1,047}{\$1,254} = 83.5\%$$



11



Sources of Reduction



- 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.



13

13

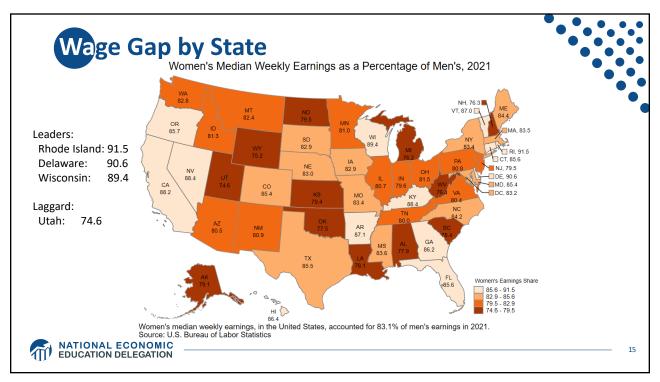
Significant strides have been made

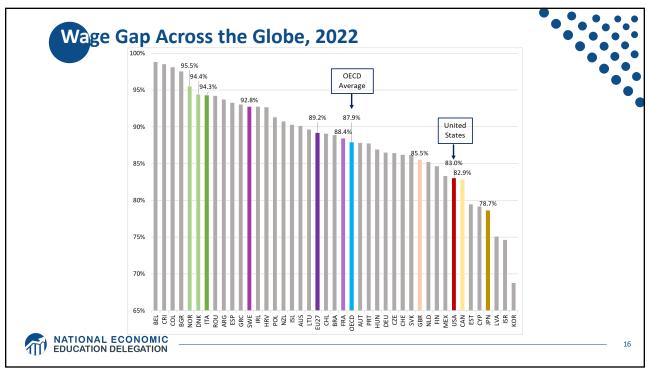


- Progress made in combating gender inequality and discrimination against women in workplace since the 1970s
 - The Fair Labor Standards Act of 1938,
 - The Equal Pay Act of 1963,
 - Title VII of the Civil Rights Act of 1964, and
 - The Pregnancy Discrimination Act of 1973
 - Tax Cuts and Jobs Act 2017 disclosure of sexual harassment settlements
 - Providing Urgent Maternal Protections (PUMP) for Nursing Mothers Act
 - Pregnant Workers Fairness Act



14









- The gender wage gap is a summary statistic.
 - Hides lots of variation.
- 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.



17

What Does the Wage Gap Capture?



- It reflects gender differences in:
 - iobs.
 - hours worked,
 - years of experience,
 - educational attainment,
 - 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?



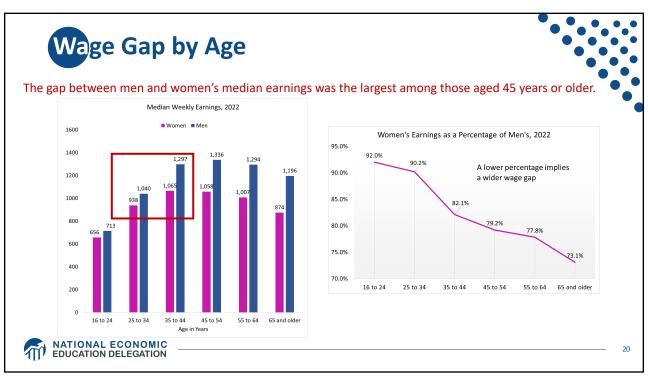
18

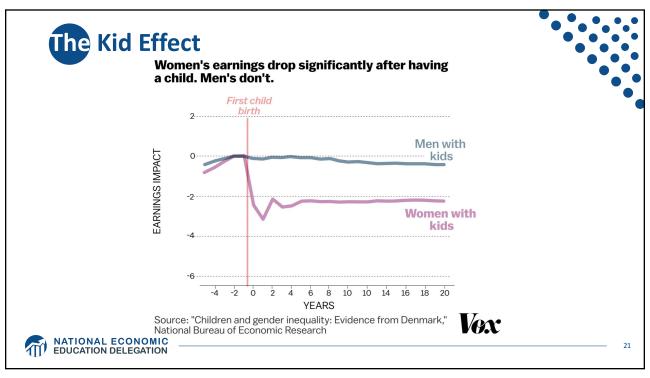


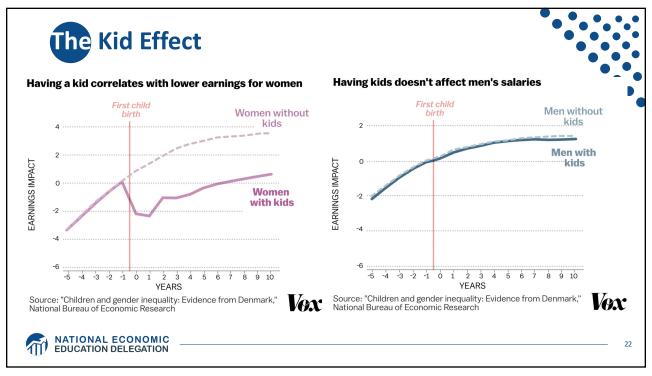
- These are unconditional or uncontrolled or raw wage gap.
- The difference doesn't take into account important determinants of earnings such as:
 - Age
 - Occupation
 - Educational attainment
 - Job skills and responsibilities
 - Work experience
 - Specialization



19







Earnings Penalty for Taking Time Out



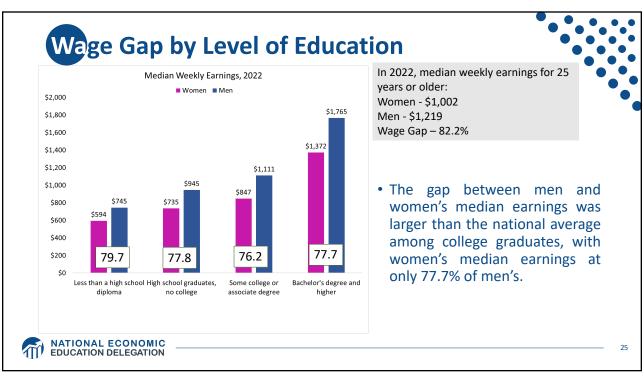
- Occupations with the largest wage gap tend to also be highly skilled.
- Earnings penalty for taking time out for career paths with the most prestigious degrees is generally very high.
- Earnings penalty for taking time off, at 15 years since leaving college with a Bachelors:
 - Lowest for MDs
 - Highest 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 with children.

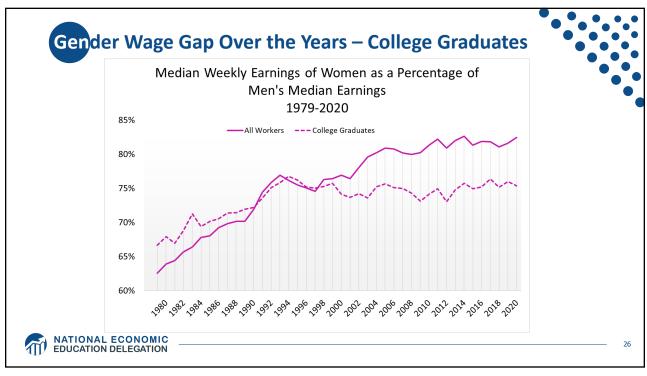


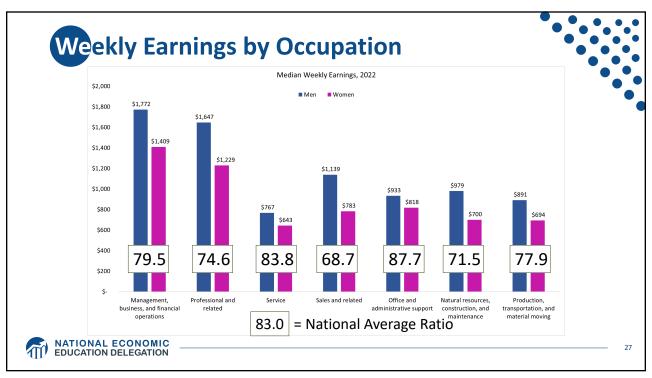
23

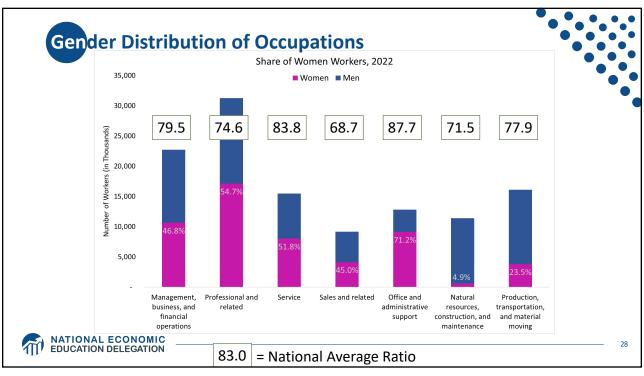
23

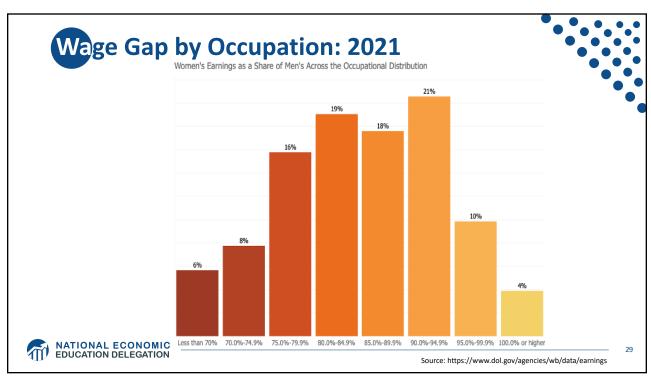


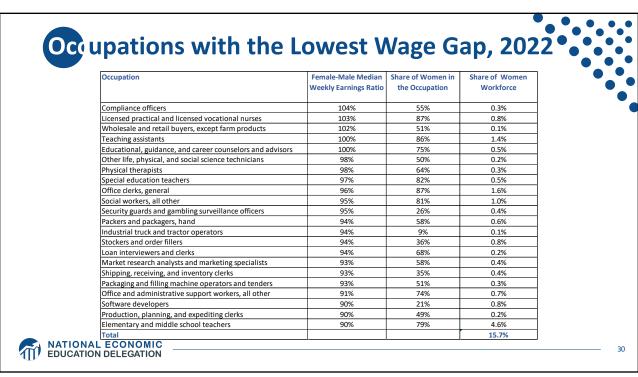












Occupations with the Highest Wage Gap, 2022

Occupation	Female-Male Median Weekly Earnings Ratio	Share of Women in the Occupation	Share of Women Workforce
Real estate brokers and sales agents	63%	54%	0.5%
Personal financial advisors	63%	38%	0.3%
Sales managers	68%	35%	0.4%
Financial managers	69%	55%	1.3%
Inspectors, testers, sorters, samplers, and weighers	70%	40%	0.5%
Recreation workers	71%	56%	0.1%
Insurance claims and policy processing clerks	74%	82%	0.4%
Medical and health services managers	74%	72%	0.9%
Sales representatives of services, except advertising,			
insurance, financial services, and travel	75%	28%	0.3%
Total			4.8%



31

31

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, and,
 - o greater substitutability of workers within teams.
- Men, traditionally, opt for jobs with greater time demands but pay more.
- Men appear to care less about time flexibility.
 - Ready to work evening/weekend hours to meet clients.
 - Affects occupation selection.



32

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



33



Gap Occurs Primarily WITHIN Occupations



Where does the wage gap come from?

	Between Occupations	Within Occupations
All Workers	15%	85%
College Graduates	35%	65%



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

Non-Linearities in Pay and the Wage Gap



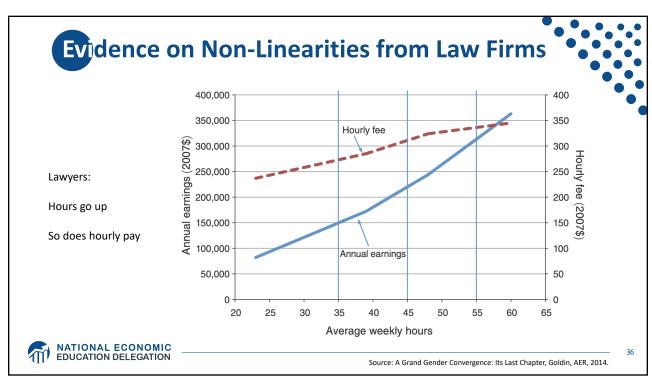
- Pay increases with the number of hours worked each week.
 - Why?
 - o In some occupations, workers are not good substitutes for each other.
 - To ensure continuity, employers value individual workers working more hours.
 - Implications:
 - Households divide the work.
 - Rather than both working 40 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.

35

35



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.
 - 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.



37

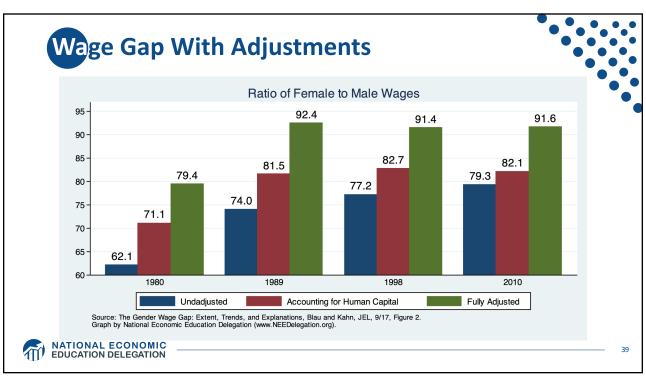
37

Adjusting the Wage Gap

- account for
- 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





What do the Adjustments Tell Us?

- atter for 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.



4

Sorting: The Decisions Men and Women Make

Sorting happens:

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

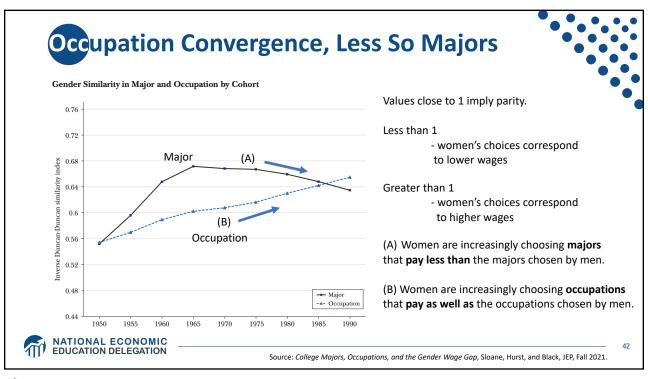
Women tend to:

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



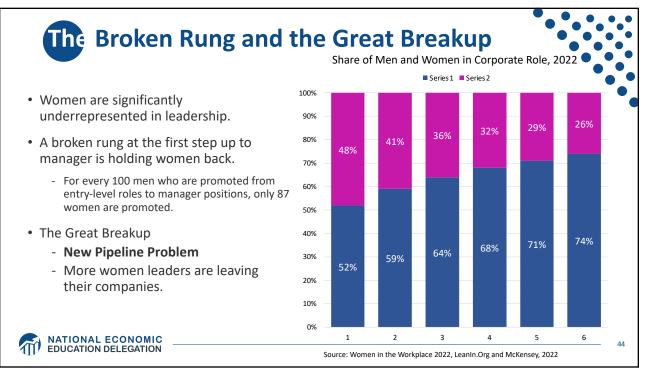
41

41



The Leaky Pipelines Phenomenon • In many professional occupations - There's a more equitable gender distribution at entry level, - But at the higher ranks, number of female workers plummets. Time demands – likely explanation? **The Leaky Pipelines In Economics** Share of Women in Economics, 2020 PhD graduates 35% Untenured Assistant **Professors** Associate **Professors** Full 28% **Professors** 15% NATIONAL ECONOMIC EDUCATION DELEGATION

43



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.



45

45

The System - Not Individual Bias is the Culprit



- 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.



46





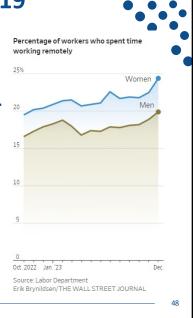
- Firms have more incentive to retain the female employees now than ever.
 - With more women entering the profession.
 - More men wanting equitable relationships with their life partners.
 - Costly job training.
 - Valuable client-employee relationships formed by the women in early years.



47

Tin e Demand Tradeoffs and COVID-19

- COVID-19 accelerated trends towards more workplace flexibility.
- Remote work may have lasting beneficial impact on all workers, including women.
- But there may also be losses.
 - Promotions?
- Women's attachment to labor market at risk due to:
 - Difficulty in obtaining affordable, dependable childcare.



NATIONAL ECONOMIC EDUCATION DELEGATION





- 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



49

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.
 - $_{\odot}$ Access to childcare, for instance.
 - Influencing the structure of labor markets, the workplace, hiring practices, and job flexibility.
 - Generally, address the hours/compensation relationship.



50





Any Questions?

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

Contact NEED: info@NEEDEcon.org

Submit a testimonial: www.NEEDEcon.org/testimonials.php

Become a Friend of NEED: www.NEEDEcon.org/friend.php



51