

Osher Lifelong Learning Institute, Winter 2022 **Contemporary Economic Policy**

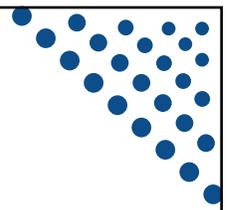
American University
March-May, 2022

Host: Jon Haveman, Ph.D.
National Economic Education Delegation



Available NEED Topics Include:

- **Coronavirus Economics**
- **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**
- **US Social Policy**



Course Outline

• Contemporary Economic Policy

- Week 1 (3/11): US Economy & Coronavirus Economics
- Week 2 (3/18): Federal Debt (Brian Peterson, Central College)
- Week 3 (3/25): Trade and Globalization (Alan Deardorff, Univ. of Michigan)
- Week 4 (4/1): Healthcare Economics (Veronika Dolar, SUNY-Old Westbury)
- Week 5 (4/8): Economics of Immigration (Jennifer Alix-Garcia, Oregon St. Univ.)
- Week 6 (4/15): Economic Inequality (Kyle Montanio, Colorado University - Denver)
- Week 7 (4/22): Economic Mobility (Kathryn Wilson, Kent State University)
- Week 8 (4/29): Discrimination in US Policy History (Jon Haveman, NEED)
- Week 9 (5/6): The Black-White Wealth Gap (Mike Shor, Univ. of Connecticut)
- **Week 10 (5/13): The Gender Pay Gap (Mallika Pung, Univ. of New Mexico)**



NATIONAL ECONOMIC
EDUCATION DELEGATION

3

3



Gender Pay Gap

Mallika Pung, Ph.D.
University of New Mexico

May 13, 2022



NATIONAL ECONOMIC
EDUCATION DELEGATION

4

Outline

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



NATIONAL ECONOMIC
EDUCATION DELEGATION

5

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](#)



NATIONAL ECONOMIC
EDUCATION DELEGATION

6

6

Popular Theories

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

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



7

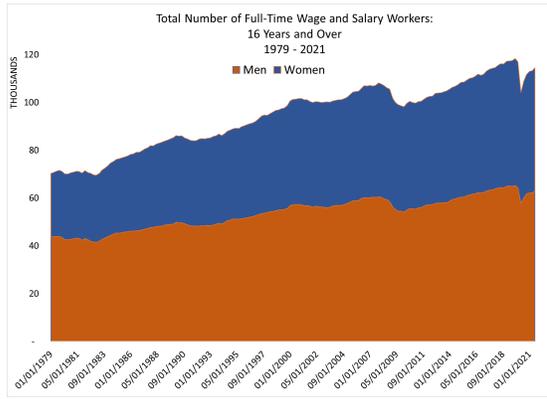
Significant strides have been made

- **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 in conjunction with
 - Affirmative Action and other movements aimed at diversity
- **“Gender Revolution”**



8

Composition of the Full-Time Workforce

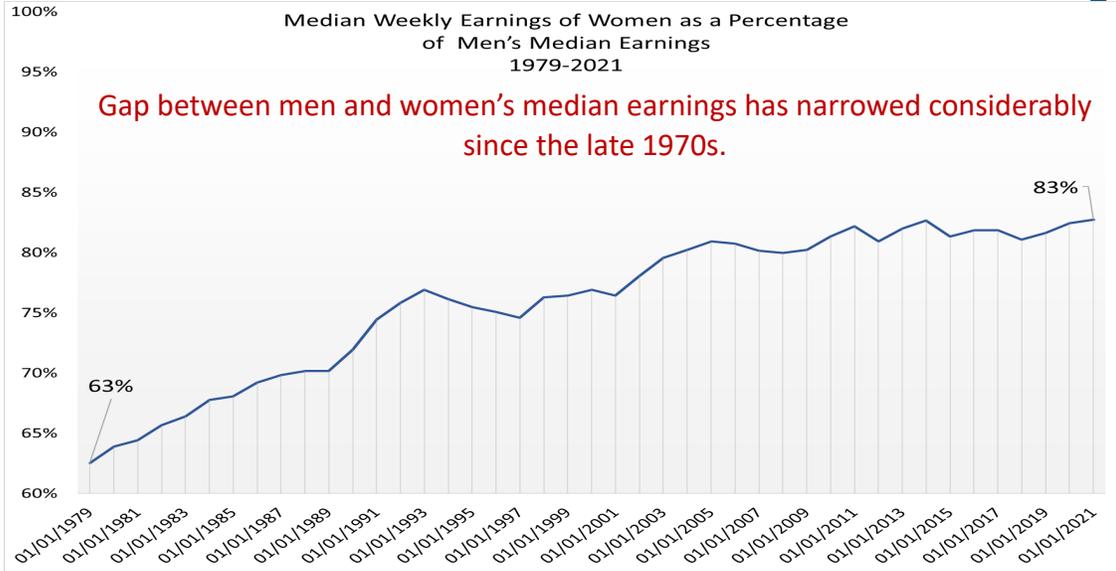


What is Gender Wage Gap?

- 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 July 2021, median weekly earning for full-time women workers was \$914, and that for men was \$1105.
 - Therefore, the gender wage gap in July 2021 was:

$$\frac{\$914}{\$1105} = 82.7\%$$

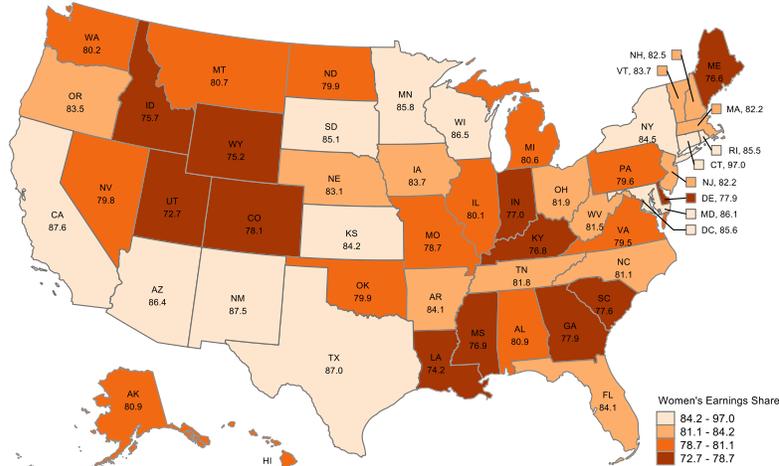
Gender Wage Gap Over the Years



11

Wage Gap by State

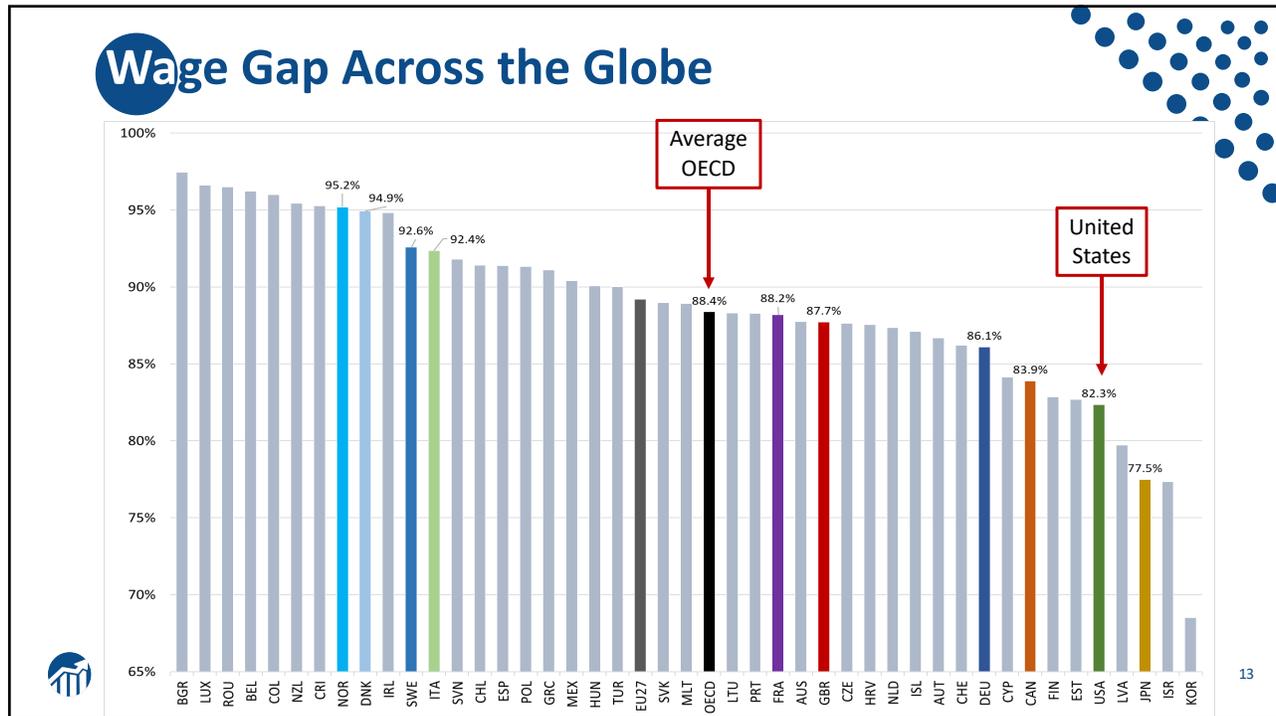
Women's Median Weekly Earnings as a Percentage of Men's, 2020



Women's median weekly earnings, in the United States, accounted for 82.3% of men's earnings in 2020.
Source: U.S. Bureau of Labor Statistics

12

12



13

What is NOT included in these calculations?

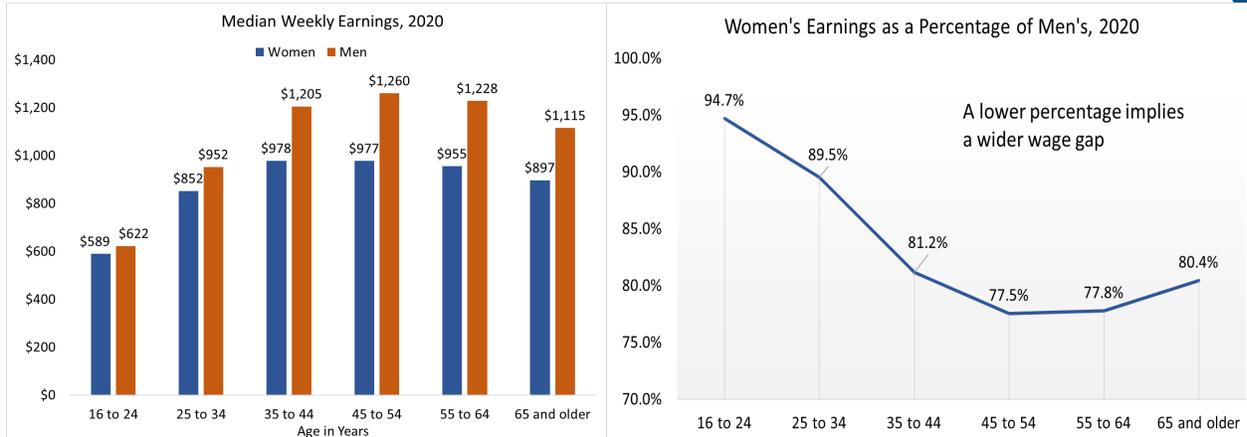
- These are unconditional or uncontrolled or raw wage gap.
- The difference doesn't take into account important determinants of earnings such as:
 - Age
 - Occupation
 - Educational attainment
 - Job skills and responsibilities
 - Work experience
 - Specialization
- Gender wage gap is not a single statistic;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

NATIONAL ECONOMIC EDUCATION DELEGATION

14

Wage Gap by Age

The gap between men and women's median earnings was the largest among those aged 45 years or older.



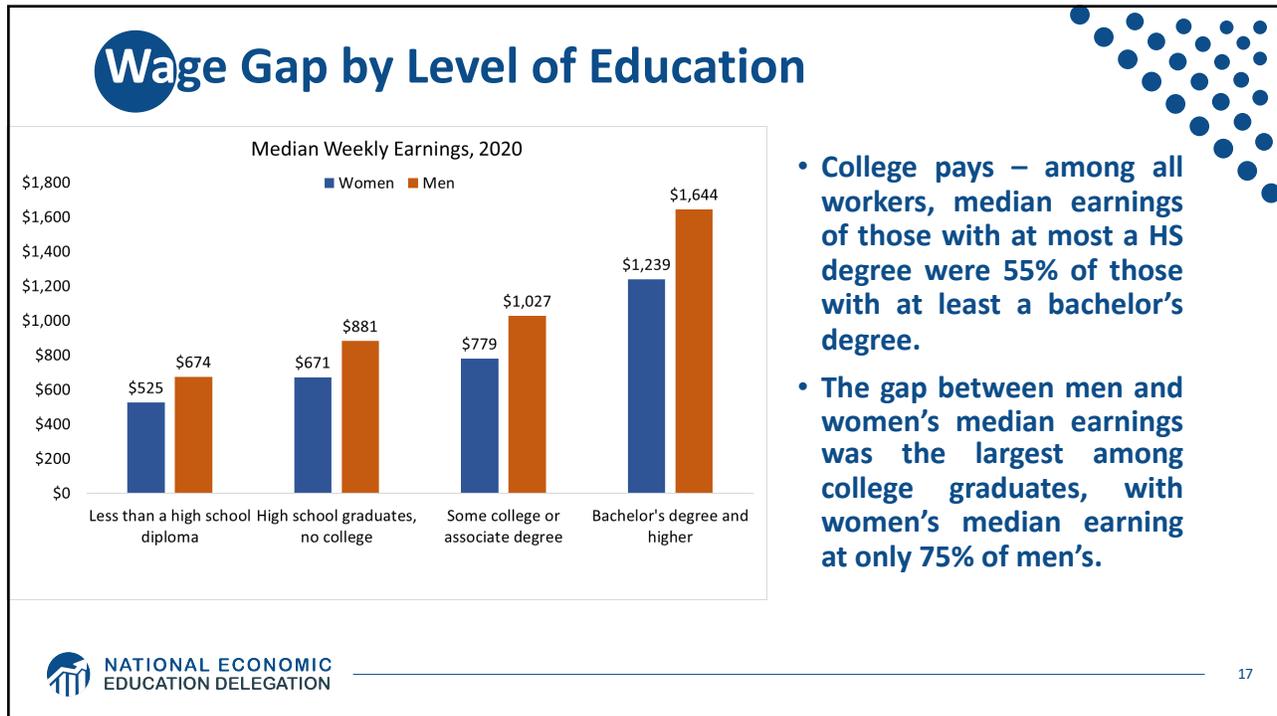
15

Wage Gap by Race/Ethnicity

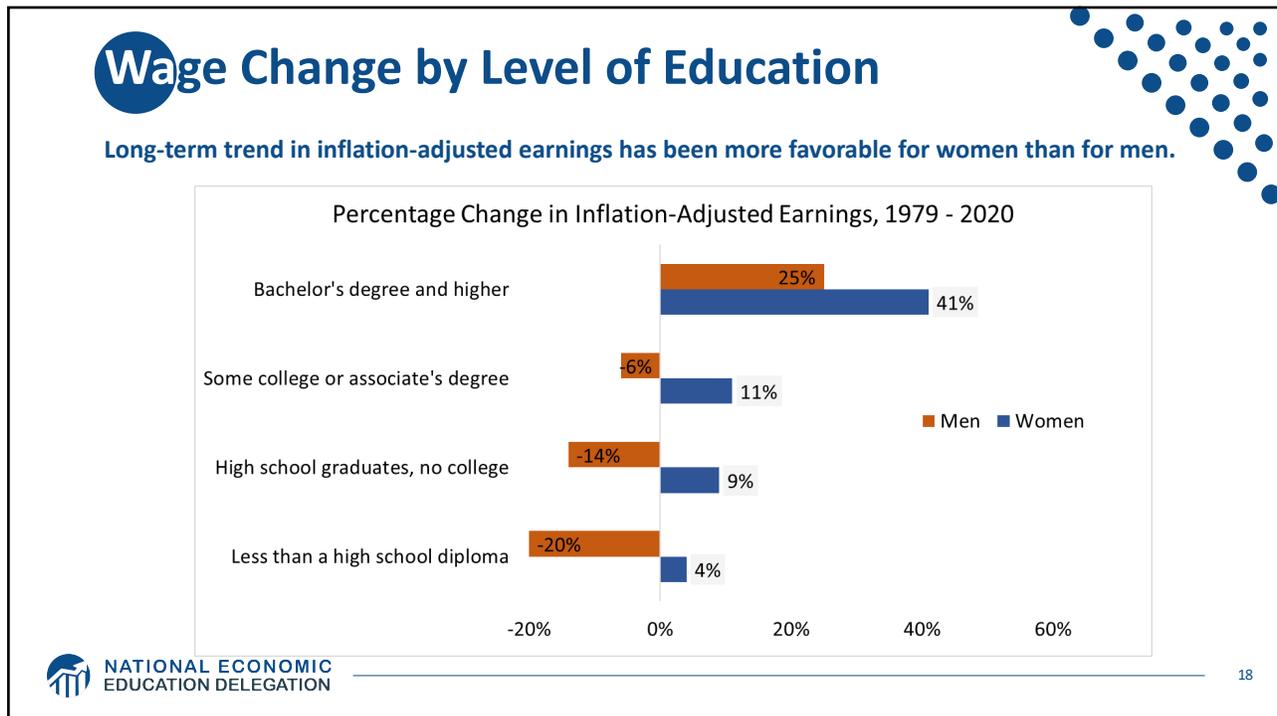


- Earnings differences between women and men were largest among Asians and among Whites.
- Asian women earned 79% as much as Asian men, and White women earned 82% as much as White men.
- Black women had median earnings that were 92% of Black men's, and Hispanic women's earnings were 89% of Hispanic men.

16

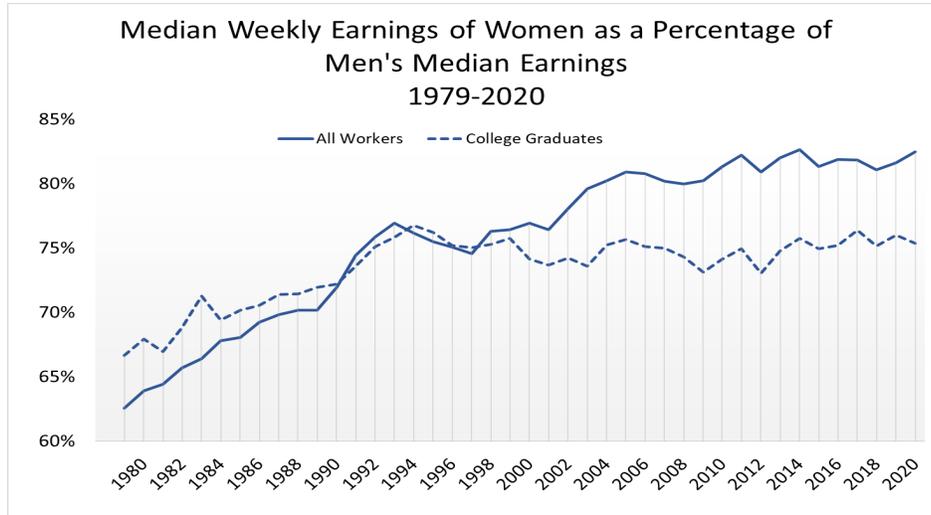


17



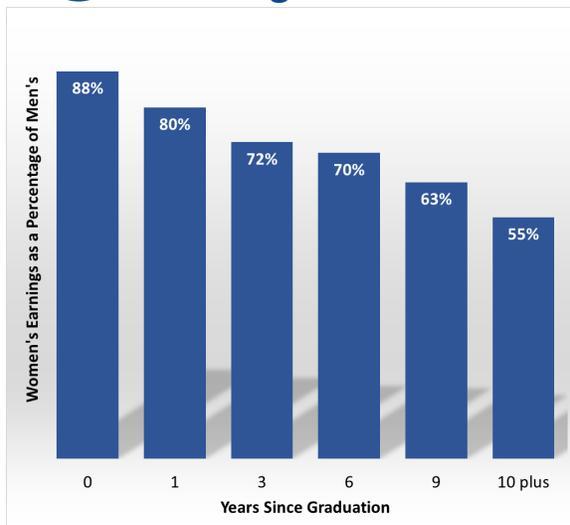
18

Gender Wage Gap Over the Years – College Graduates



19

Wage Gap Widens with Age and with Years Since 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%.

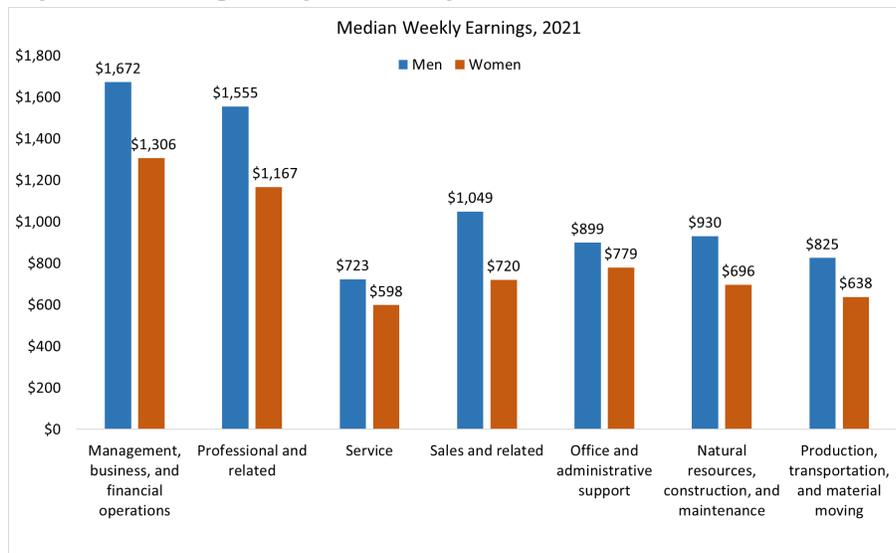
20

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

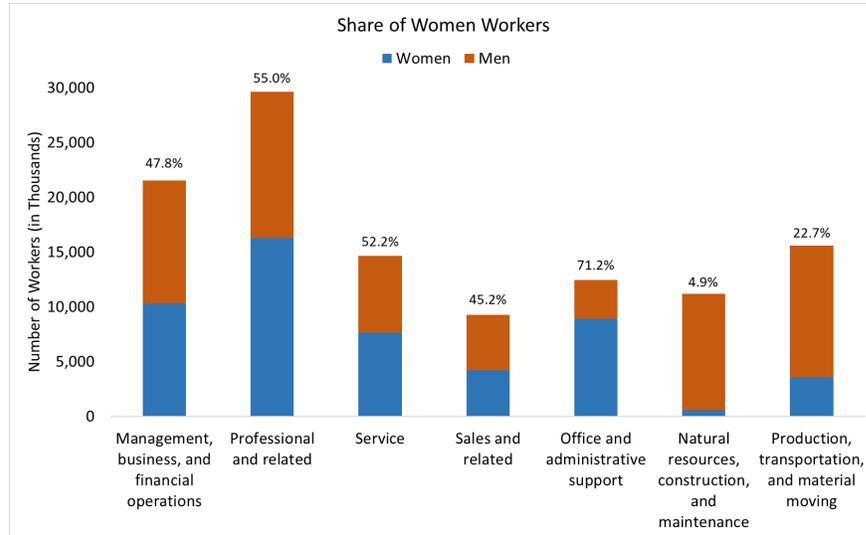
21

Weekly Earnings by Occupation



22

Gender Distribution of Occupations



23

Occupations with the Lowest Wage Gap, 2021

Occupation	Female-Male Median Weekly Earnings Ratio	Share of Women in the Occupation	Share of Women 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%
Insurance claims and policy processing clerks	102%	77%	0.4%
Billing and posting clerks	101%	87%	0.7%
Teaching assistants	100%	86%	1.3%
Purchasing agents, except wholesale, retail, and farm products	100%	62%	0.3%
Cashiers	99%	72%	1.7%
Fast food and counter workers	98%	64%	0.3%
Bus drivers, school	98%	55%	0.1%
Stockers and order fillers	97%	35%	0.8%
Postal service mail carriers	97%	40%	0.2%
Pharmacy technicians	97%	77%	0.4%
Police officers	96%	15%	0.2%
Computer programmers	96%	20%	0.2%
Wholesale and retail buyers, except farm products	96%	55%	0.1%
Miscellaneous agricultural workers	96%	17%	0.2%
Industrial truck and tractor operators	96%	9%	0.1%
Computer support specialists	96%	24%	0.3%
Physical therapists	95%	64%	0.3%
Packers and packagers, hand	95%	57%	0.6%
Total			9.3%

24

Occupations with the Highest Wage Gap, 2021

Occupation	Female-Male Median Weekly Earnings Ratio	Share of Women in the Occupation	Share of Women Workforce
Securities, commodities, and financial services sales agents	56%	33%	0.1%
Medical scientists	60%	51%	0.1%
Personal financial advisors	65%	40%	0.3%
Other engineering technologists and technicians, except drafters	66%	19%	0.1%
Insurance sales agents	67%	54%	0.5%
Medical assistants	68%	89%	0.8%
First-line supervisors of production and operating workers	70%	19%	0.3%
Chief executives	70%	30%	0.7%
Sales managers	70%	30%	0.3%
Bus drivers, transit and intercity	72%	39%	0.1%
Credit counselors and loan officers	72%	51%	0.4%
Supervisors of transportation and material moving workers	72%	22%	0.1%
Financial managers	73%	56%	1.3%
Inspectors, testers, sorters, samplers, and weighers	73%	38%	0.6%
Market research analysts and marketing specialists	73%	60%	0.4%
Claims adjusters, appraisers, examiners, and investigators	73%	58%	0.4%
First-line supervisors of retail sales workers	74%	46%	1.9%
Retail salespersons	74%	40%	1.3%
Total			9.8%



25

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.



26

Explaining Gender Wage Gap by Occupation

- **Women, traditionally, the “on-call” parent – Goldin [2021]**
- **Prefer occupations with**
 - shorter hours,
 - fewer “on-call” hours,
 - predictable schedules
 - standardized products/services
 - greater substitutability of workers within teams
- **Men, traditionally, opt for jobs with greater time demands but pay more**
- **Appear to care less about time flexibility**
 - Ready to work evening/weekend hours to meet clients



27

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**



28

Earnings Penalty for Taking Time Out

- Occupations with the most wage gap tend to also be the highly skilled
- Earnings penalty for women (as well as men) for taking time out for career paths with the most prestigious degrees such as JD, MD, MBA or PhDs – lawyers, physicians, managers or academicians – 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.



NATIONAL ECONOMIC
EDUCATION DELEGATION

29

29

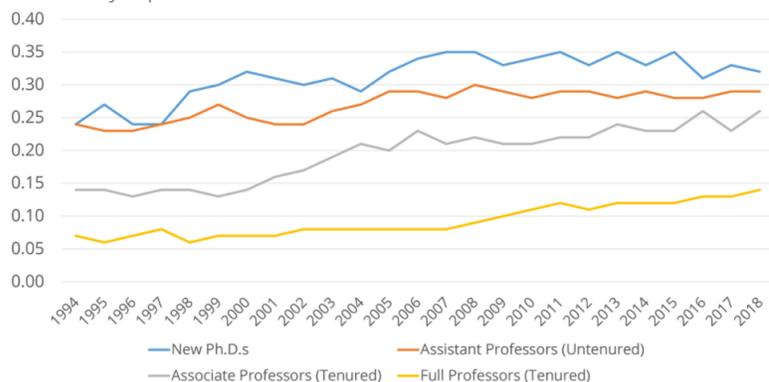
The Leaky Pipelines Phenomenon

• 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 Pipeline in Economics



Source: Committee on the Status of Women in the Economics Profession (CSWEP) Annual Survey of U.S. Economics Departments



NATIONAL ECONOMIC
EDUCATION DELEGATION

30

30

Solutions to the gender wage gap issue

- **Debiasing the labor market**
 - Diversity training for supervisor and manager
 - 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**

31

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 temporal 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**

32

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 more incentive to retain the female employees now than ever.

33

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

34

What can we do?

- 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

35

Thank you!

Any Questions?

www.NEEDelegation.org

Mallika Pung, Ph.D.

MallikaPung@gmail.com

Contact NEED: info@NEEDelegation.org

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

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

36