

A Second Look at the Process of Occupational Feminization and Pay Reduction in Occupations

> Hadas Mandel Tel-Aviv University

hadasm@post.tau.ac.il



European Research Council Established by the European Commission





European Commission

Horizon 2020 European Union funding for Research & Innovation

Individual and structural aspects of gender inequality

Individual

Are the location of men and women on the occupational ladder becoming more similar over time?

Structural

Are the criteria underpinning the occupational ladder becoming more (or less) affected by gender?

We don't know yet!

Yes!

anager

. Physician

Teacher

Driver

Ca<mark>re-G</mark>iver

Individual and structural forms of gender inequality

Individual

What we already know?

The gender distribution has become more similar, as women entered previously male dominated occupations (in management medicine, law, and others)

Structural

What we don't know?

Has this change affected the occupational structure itself?

If yes –

Has this gender effect increased or decreased over time? anager

nvsician

leacher

Driver

Care-Giver



Why this is important?

Individual

Upward occupational mobility of women on the occupational ladder Changes in the relative status and pay of occupations on the ladder

Structural

Gendered

Gendered??

anager

Physician

Teacher

Driver

Car<mark>e-C</mark>iver

Why is this important?

Individual

More women today are industrial engineers

Gendered!!

Structural

Does the fact that industrial engineers have enjoyed lower pay increase relative to electrical engineers relate to the fact that many more women have become industrial engineers over the last decades?

> Sociologists suspect that it does

> > 5

anager

h<mark>ysı</mark>cian

Teache

Care-Giver

Driver

Occupational Devaluation

 Wage reduction in occupations following feminization, due to employer's underestimation of traits and skills identified with femininity (England 1992)



Empirical evidence

Individual

Trends in occupational mobility of women

Prevalent

Structural

Trends in occupational devaluation

Scanty/not prevalent

Physician Teacher Driver Care-Giver

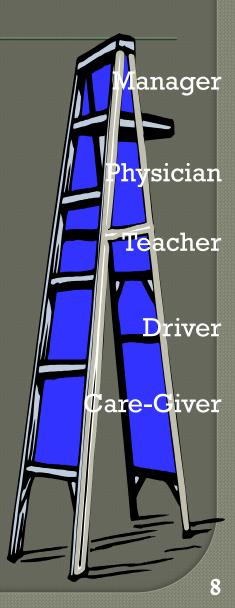
lanager

7

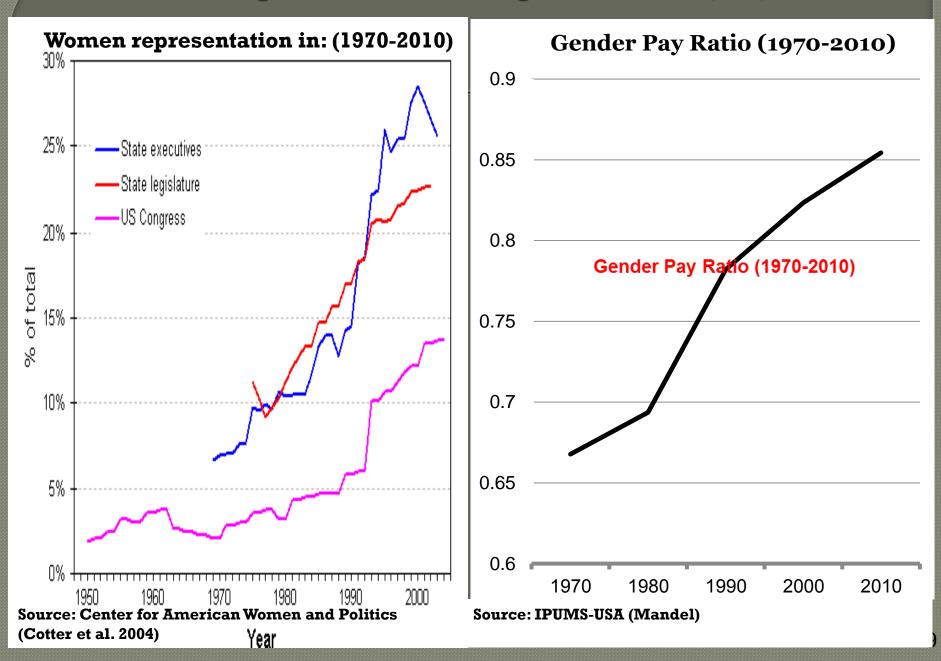


This is an ideal period

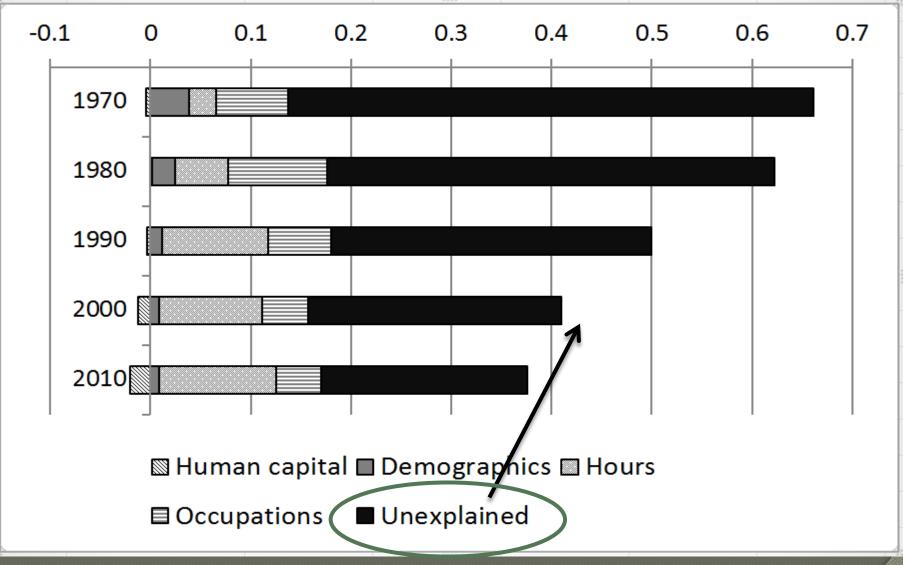
A time of upward occupational mobility for women, a precondition for the occurrence of occupational devaluation.



Women's occupational and earnings attainments, US, 1950-2010



Gender pay gaps in the US by components



Source: Mandel and Semyonov, Demography 2015

Individual and structural forms of gender inequality

Individual

What we already know?

The gender distributions haves become more similar:

- in pay
- In occupations

Structural

What we don't know?

Has this change affected the occupational structure itself?

If yes –

Has this gender effect increased or decreased over time? anager

ny<u>sician</u>

leacher

Driver

Care-Giver

Data & Methods

Data: IPUMS-USA (1960-2015)

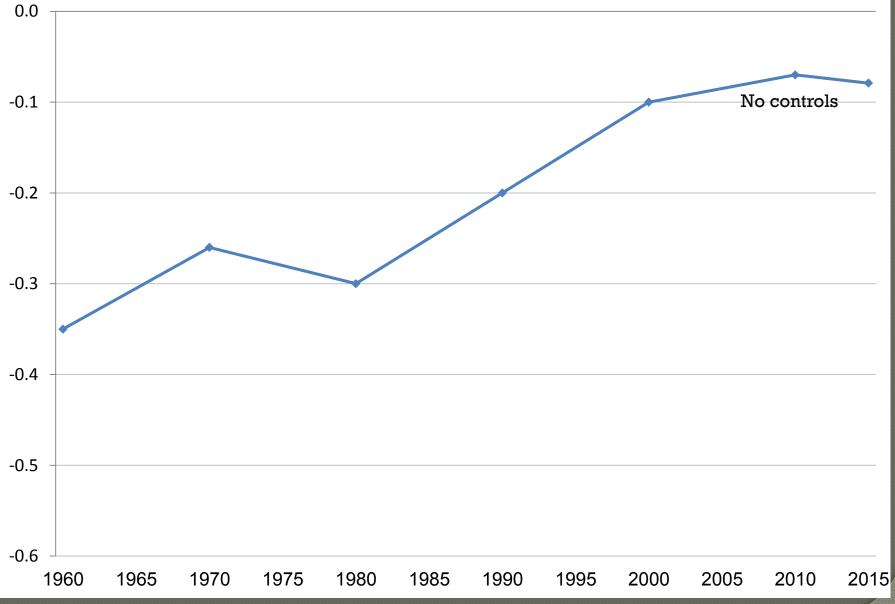
- 5% sample censuses of 1980-2000
- 1% sample census of 1960-1970
- ACS sample for 2010 and 2015

Around 300 to 400 occupational categories (variable OCC)

Method: multi-level regressions, by decade.

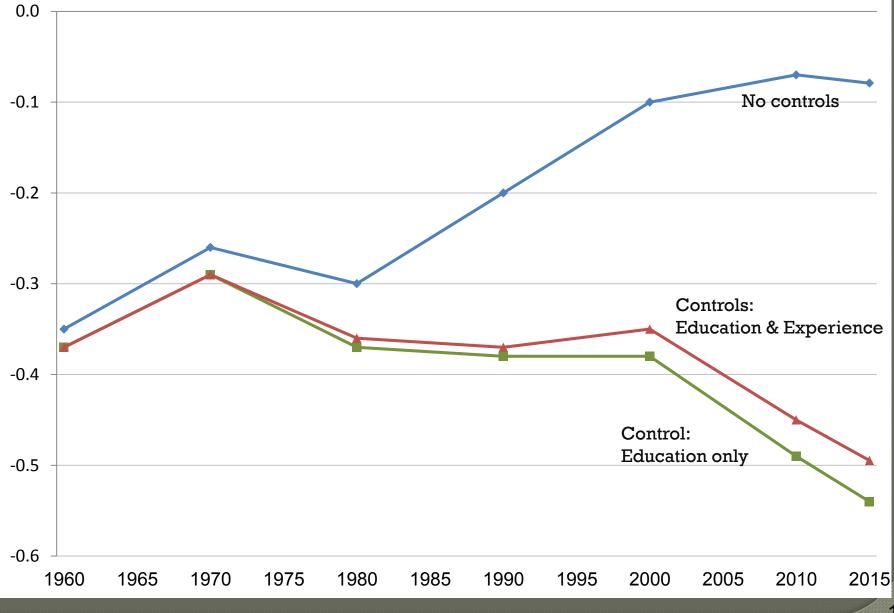
- <u>Dependent variable at the occupational level</u>: the average wage of males in an occupation (the intercept: male=0, female=1).
- Independent variable at the occupational level: percent female in occupations
- <u>Controls</u>: human capital factors at the individual level and occupational level.

Coefficients of percent female on the average wage of males in occupations, 1960-2015: results of multi-level regression, without controls



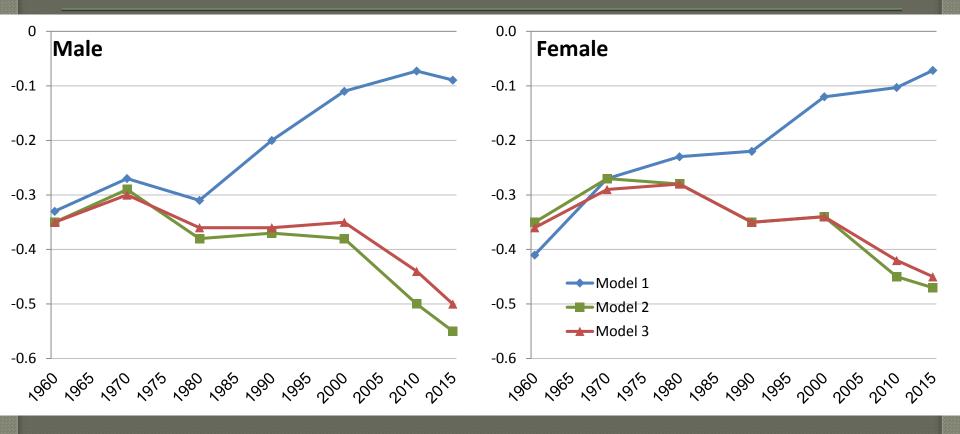
13

Coefficients of percent female on the average wage of males in occupations, 1960-2015: results of multi-level regression, with and without controls



14

Coefficients of percent female on the average wage of males in occupations, 1960-2015: results of multi-level regression, with and without controls, by gender



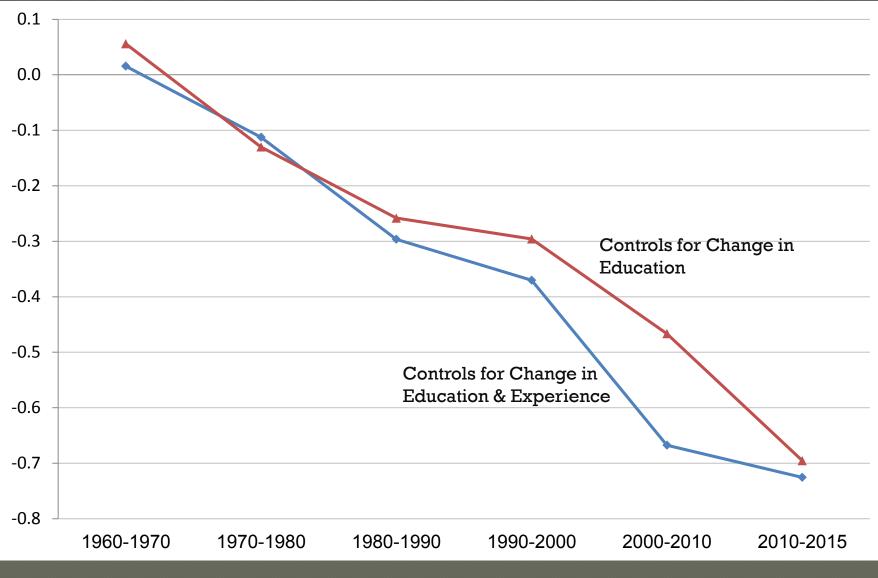


Change in percent female in occupations

 \rightarrow Change in male wages

* **Change** between two consecutive census years (1960 and 1970, 1970 and - 1980, etc.)

Coefficients of <u>change</u> in percent female on <u>change</u> in occupational pay, result of multi-level regression*



• All models also control for 'lagged male wage', lagged female proportion', 'unemployment rates '

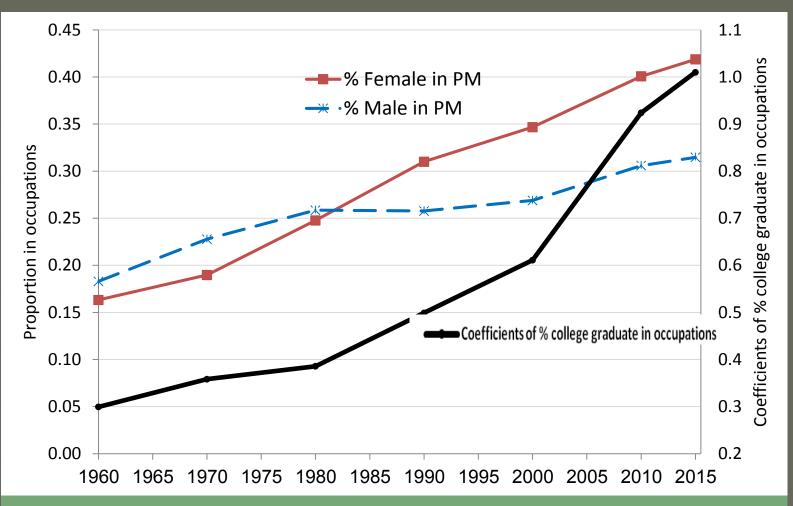
• at the occupational level, and education and experience at the individual level

What account for the divergent trends??

 The growing entry of women into professional and managerial occupations (occupations that require high education)

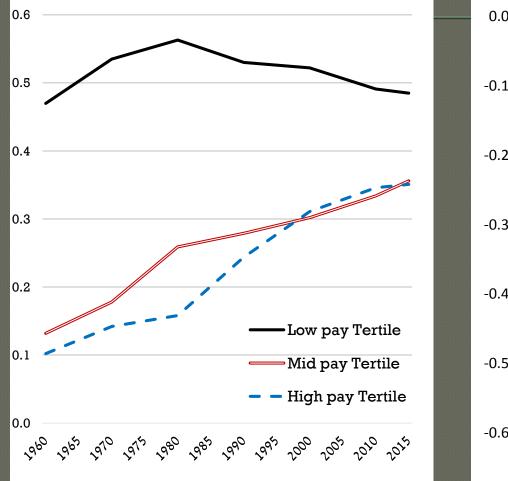
 The growing rewards to occupations that demand high education (relative to unskilled occupations)

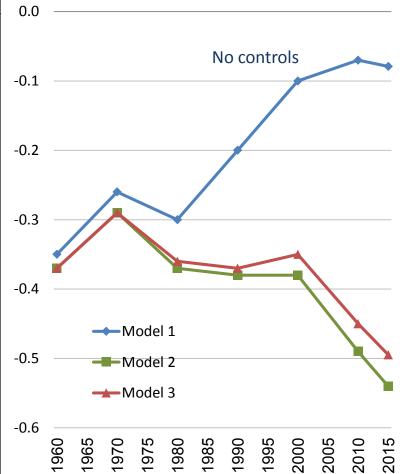
Proportion of Men and Women in PM occupations and Rewards for Education 1960-2015



Women increase their participation in the very same occupations that enjoy the highest wage premium

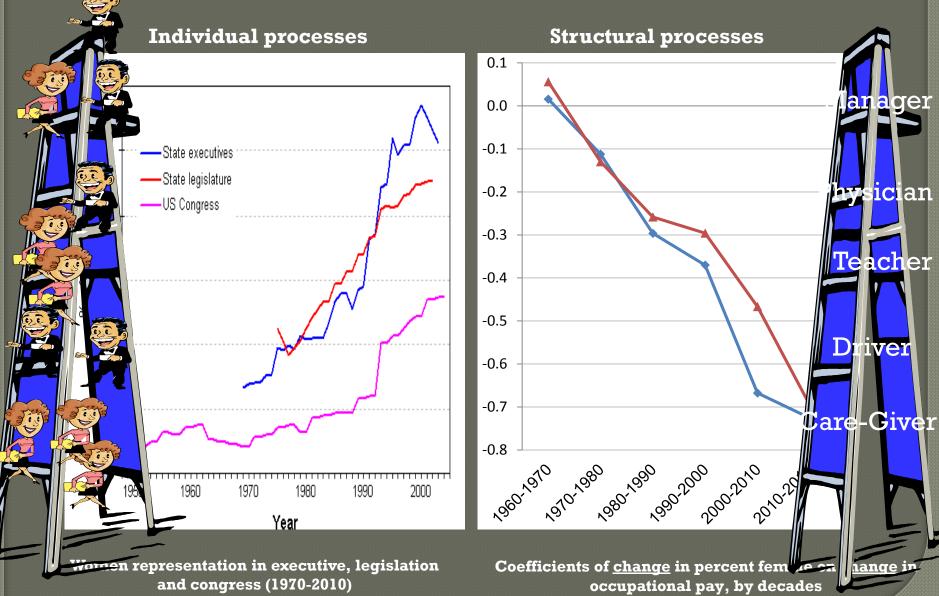
Effect of percent female on the average wage of males in occupations, 1960-2010: results of multi-level regression, without controls, by gender





Mean proportion female in Occupation by tertiles of average weekly wage Coefficients of percent female on the average wage of males in occupations, 1960-2015

Individual and structural processes:



Over-time Trends in individual and structural mechanisms of gender in/equality

Individual mechanism of gender in/equality			Structural mechanism of gender in/equality		
Differences between men and women in	Over-time change	Expected effect on the gender pay gap	Returns/ Rewards to:	Over-time change	Expected effect on the gender pay gap
Time allocated to paid work	Converged	Decline	Time allocated to paid work	Increased	Increase
Work experience	Converged	Decline	Work experience	Increased	Increase
Occupational distributions	Converged	Decline	Male (vs. Female) Occupations	Increased	Increase

Is the significance of gender in decline?

The answer to this question depends on the way we conceptualize and examine gender inequality

Is the significance of gender in decline?

At the individual level – Yes.

When the occupational and earnings attainments of individual men and women are compared over time, gender inequality is indeed shrinking.

BUT:

At the structural level – I am not sure.

In the US my data show that the occupational structure of rewards still preserve gender inequality





Examination of different sources of gender inequality should give more attention to structural processes.

Structural processes are:

- Less visible
- Often are not recognized as gendered
- Difficult to track empirically

e.g. industrial engineers relative to electrical engineers

In Summary



Today - the focus on structural aspects is crucial for understanding the new dynamics of gender inequality, and the different challenges that gender equality poses in our societies



A Second Look at the Process of Occupational Feminization and Pay Reduction in Occupations

Thank You!

