

# South Korea's Gender Divide: Within Occupations and Across Them

#### **Yoosik Youm**

Underwood Distinguished Professor Sociology Department Yonsei University, South Korea



Gender Inequalities in Pay

Two possible mechanisms: Across occupations vs. Within occupations

- > Data
- ➤ Method/ Results
- ➤ Policy Implication







Based on, Youm, Y., Yamaguchi, K., and Sung, K. (2021). A tale of two gender inequalities. *Korean Journal of Sociology*. 55(4), 161-203

## Two types of gender Inequalities

Within Occupation

**Across Occupation** 





- \* No absolute and universal criteria to tell us how much inequality is bad
- \* Need for the comparisons across periods/ societies
- \* Inter-occupational gap
- 한국노동패널 (Korean Labor & Income Panel Study): 2009-2018 (10 years) data
- Only since 2009, the country-wide representative data are available.
- Too small sample for managerial positions: not proper for intra-occupation
- \* Intra-occupational gap
- 고용형태별 근로실태조사보고서 (Survey report on labor conditions by employment type, Occupational Wage Survey): 1990-2019 (30 years) data
- 3-digit occupation code is not available. → not proper for inter-occupation

## Data

# Method: inter-occupational segregation by gender, Duncan Dissimilarity Index

 $P_i^M$ : the proportion of employed men in the occupation i

 $P_i^W$ : the proportion of employed women in the occupation i

This ranges from 0 to 1, meaning the minimum proportion of men (or women) to move for no occupational segregation

In general, the more occupational categories (n), the greater the index (D)

$$D = \frac{1}{2} \sum_{i}^{n} \left| P_i^M - P_i^W \right|$$

## Method: occupational segregation index

## 8 occupations

- 1) Type 1 professional: doctor, dentist, professor, etc.
- 2) Type 2 professional: nurse, teacher, pharmacist, etc.
- 3) Managerial
- 4) Clerical
- 5) Sales
- 6) Manual, non-service
- 7) Manual, service
- 8) Others

#### 분리 정도: Duncan Index

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# Method: counter-factual decomposition of occupational segregation (Yamaguchi 2017)

#### **Observed gender gap** decomposed into:

- **Explained**: eliminated under the counterfactual assumption of identical human capital between genders
- **Unexplained**: persisting even with identical human capital

#### DFL Method (developed based on DiNardo, Fortin, Lemieux, 1996)

- Creates a hypothetical occupational distribution for women
- Impact: Shifts the overall population's occupational distribution
- Focus: Driven by supply-side factors (worker characteristics)

#### **Matching Method**

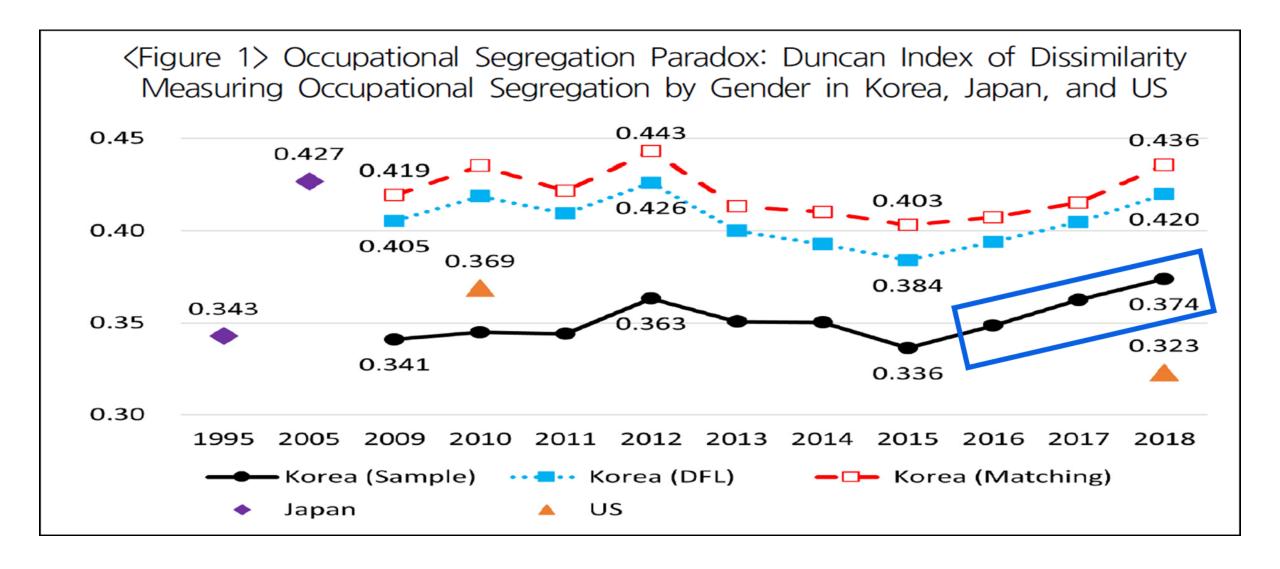
- Fixes the total population's occupational distribution
- Adjusts only the proportion of men and women within occupations under the identical human capital assumption
- Impact: Reflects changes driven by demand-side factors (employer preferences)

# Method: Fortin and Huberman's counter-factual decomposition of wage gap

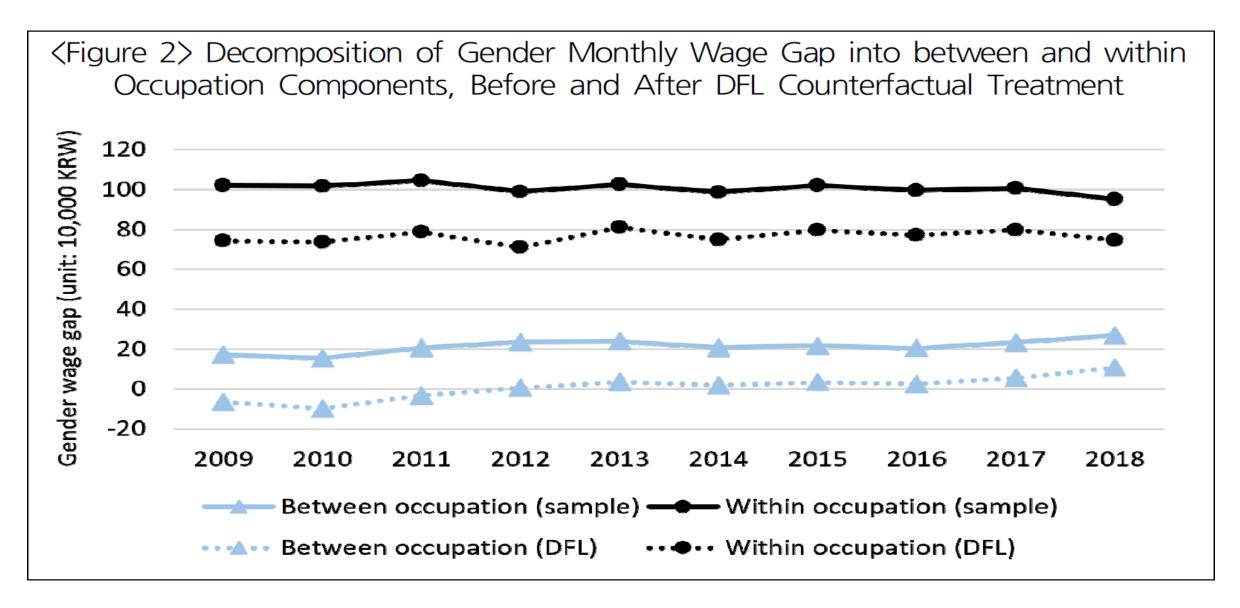
: decompose the wage gap into inter-occupational and

intra-occupational (Fortin and Huberman 2002)

## Occupational segregation- trend

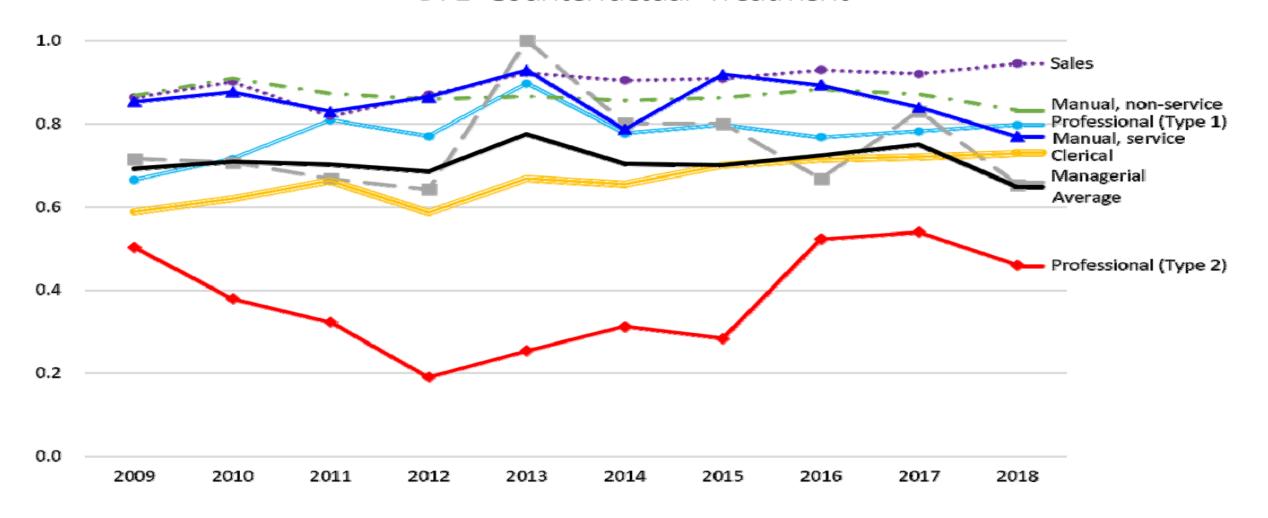


## Occupational segregation – wage gap

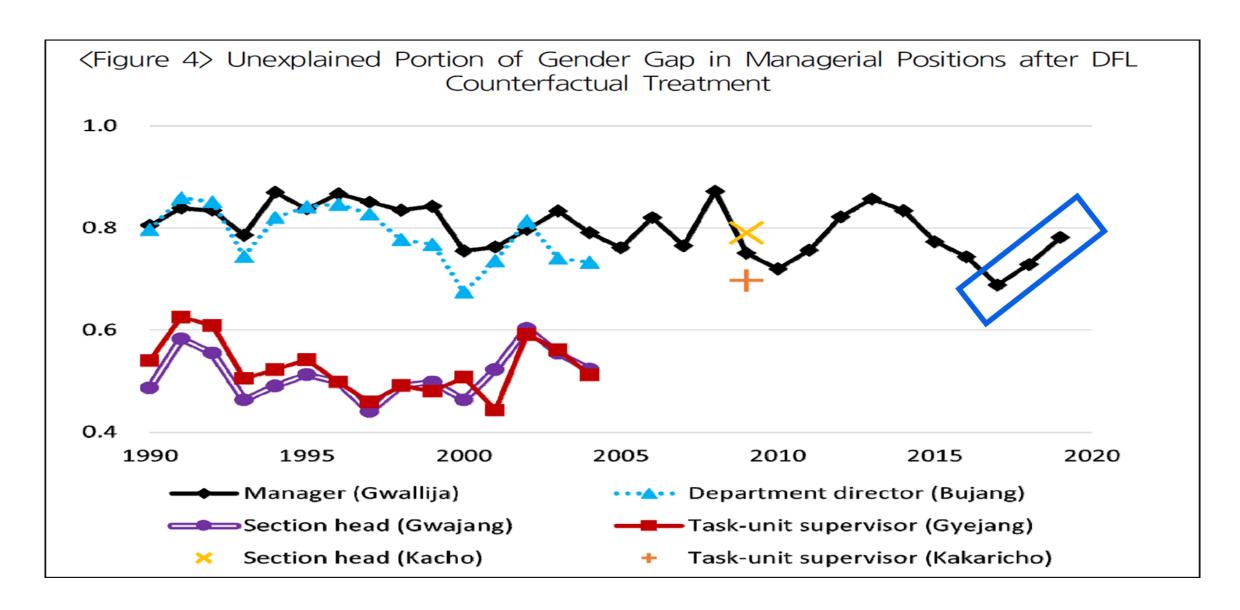


## Wage gap: by occupation

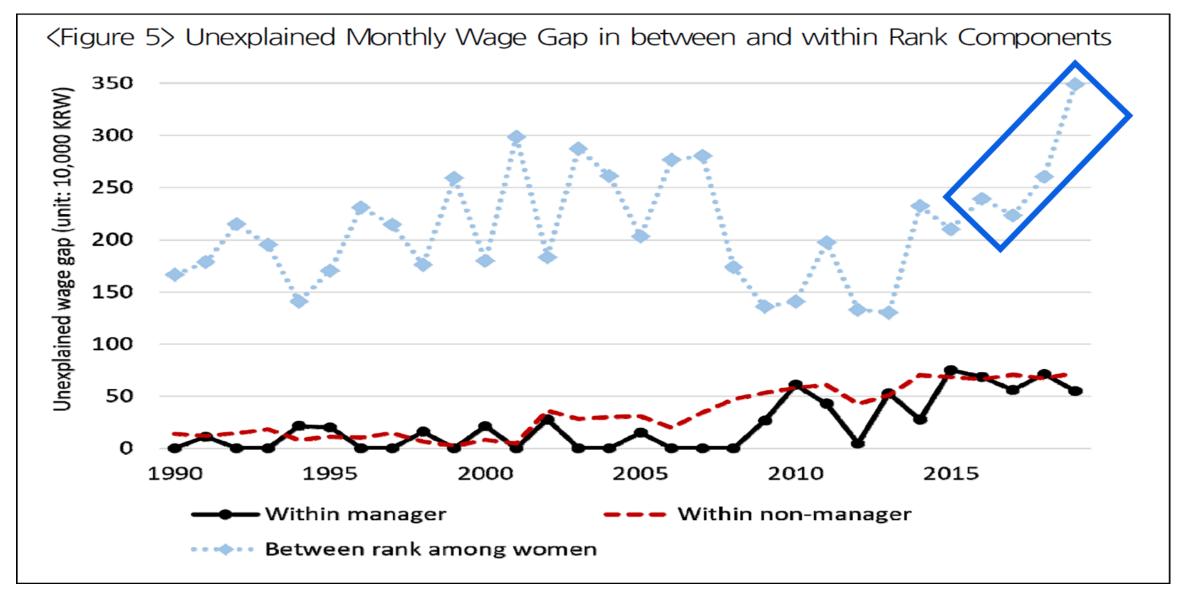
〈Figure 3〉 Unexplained Portion of Gender Wage Gap After DFL Counterfactual Treatment

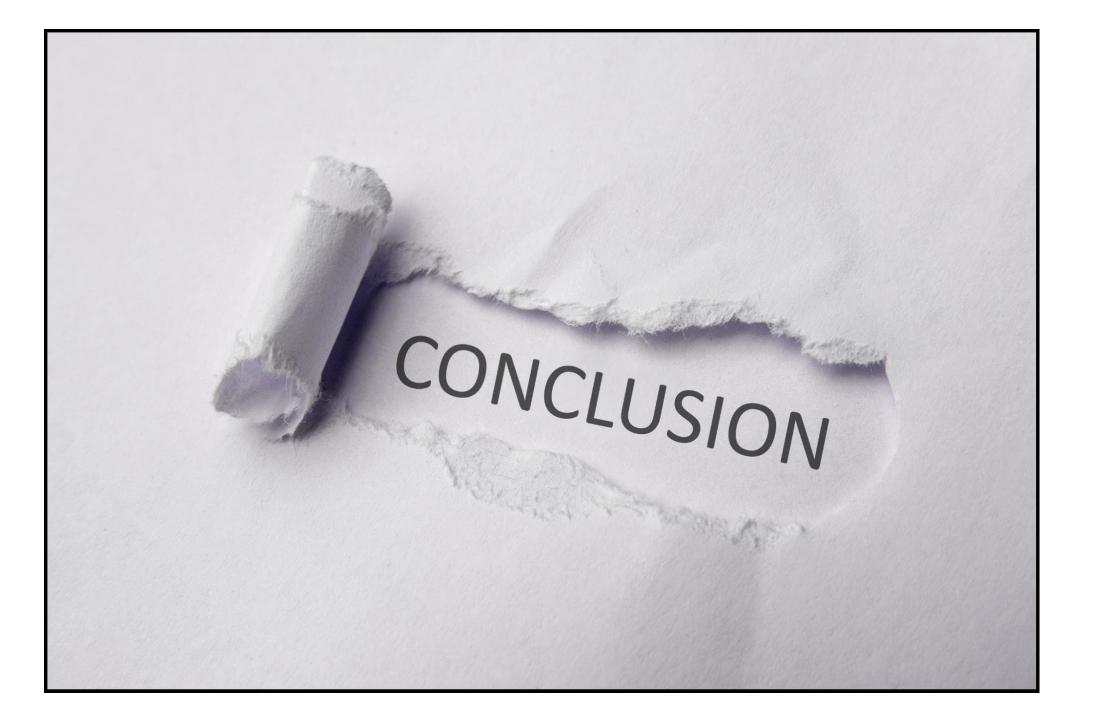


## Vertical segregation (glass ceiling)- trend



## Vertical segregation – wage gap





#### 1. Within vs. Between Occupations

- Gender wage gap primarily driven by disparities within occupations, not between them.
- Counterfactual analysis (assuming equal human capital):
  - Between occupations: Gap < 100,000 KRW/month
  - Within occupations: Gap ≈ 800,000 KRW/month

#### 2. Vertical Segregation (glass ceiling) and Promotions

- Within same job rank: Women earn ≈ 300,000 KRW/month less than men
- Non-promoted women (vs. promoted female manager): Earn ≈ 2.1 million KRW/month less
- Managerial promotions:
  - Women less likely to be promoted to managerial roles
  - 70% of promotion gap remains unexplained (assuming equal human capital)
- Key driver: Fewer promotions for women lead to larger wage gaps within occupations

#### 3. Trends Over Time

- Patterns largely unchanged over the reviewed period
- Gender wage gap has worsened in recent years



## From inequality to injustice (inequity)

### Policy Implications: South Korea

- Women's equality hottest social issue
- Lacks sufficient empirical data for evidence-based policymaking
- Deepen/ widen societal discussions based on evidence

### Policy Implications

- Strong firm-level incentive for women's promotion