

# Gender Pay Gap and Job Task Contents

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## **MOTIVATION**

## WHAT DO WE KNOW ABOUT THE GENDER PAY GAP?

- •Gender Pay Gap has been closing since 1950s (Blau & Kahn '96).
- explanation: rising educational attainment of (Fitzenberger & Wunderlich `00)

### AT THE CORE – TECHNOLOGICAL PROGRESS:

- •Rising usage of computer technology (Autor, Levy, Murnane `03)
- •Higher labor force participation of women (Galor & Weil '96), declining occupational segregation (Blau & Kahn '00)
- •Derived demand for qualified labor (Spitz-Oener `06, Lindley `12)

## RESEARCH QUESTIONS

- •How do job tasks contribute to the formation of the gender pay gap?
- •What are the differences along the wage distribution?
- •How do tasks evolve within occupations VS. sorting into occupations?

#### TASK-BASED APPROACH

- Jobs are bundles of tasks
- •Tasks: Routine, Non-Routine Cognitive and Non-Routine Manual
- •Demand & remuneration for NRC tasks are rising

#### CLASSIFICATION OF TASKS:

NRC: Human resources management; Research and development;

Public relations; Management and organisation; Education

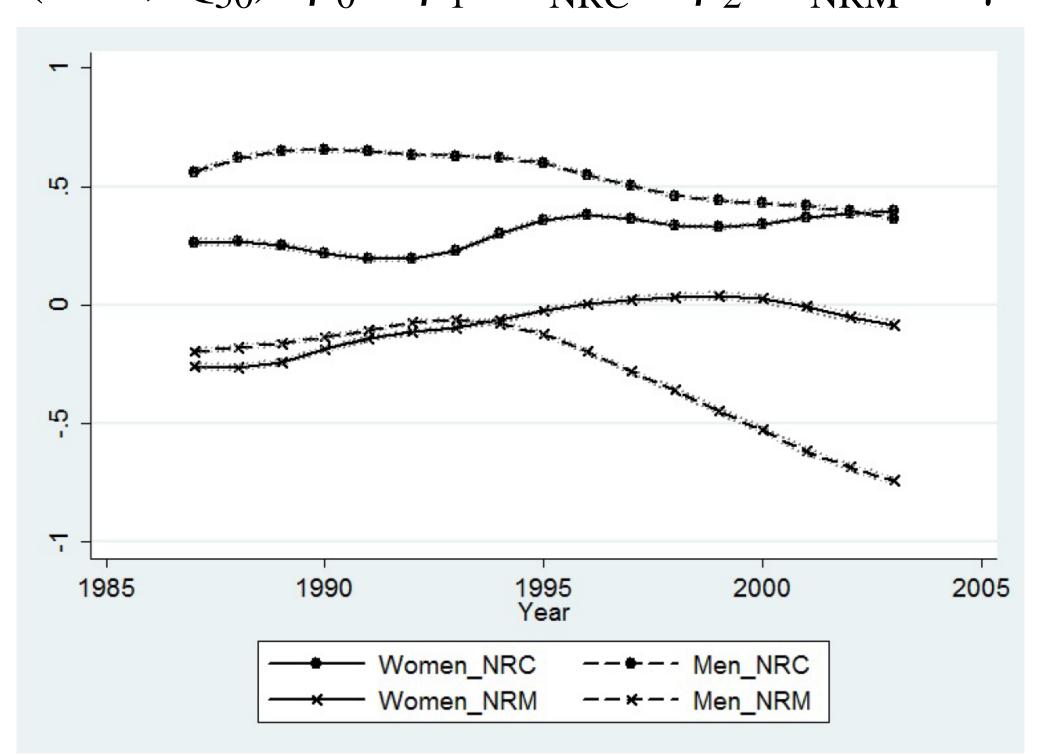
R: Accounting and controlling; Quality management; Production.

NRM: Maintenance; Construction; Hotel and restaurant; Other

services

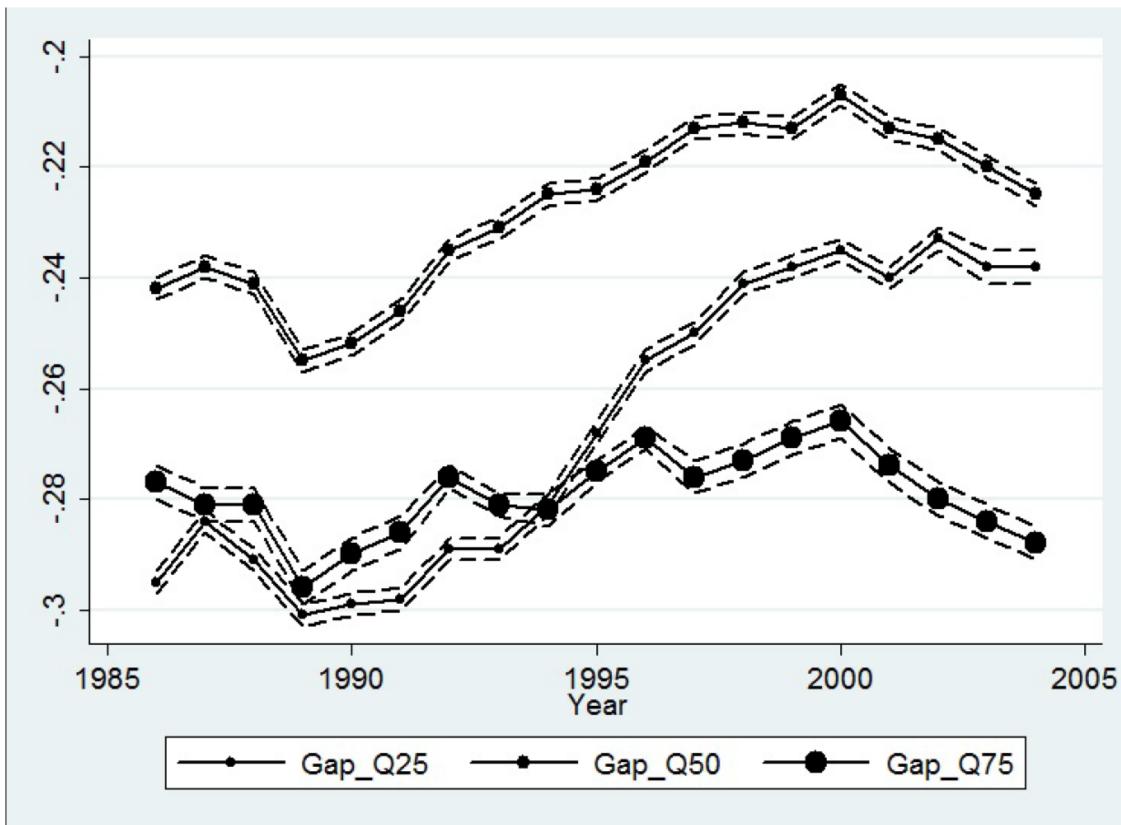
# **RELATIVE PRICES FOR TASKS:**

RIF (ln w,  $Q_{50}$ )= $\beta_0 + \beta_1 TS_{NRC} + \beta_2 TS_{NRM} + \gamma X + \epsilon$ 



Relative Gender-Specific Prices for Tasks (relative to R)

# GENDER PAY GAP IN GERMANY (1986-2004)



Gender Pay Gap at the 25th, 50th, 75th quantiles

# IABS & QUALIFICATION AND CAREER SURVEY

IABS: administrative data on wages, occupations and personal characteristics

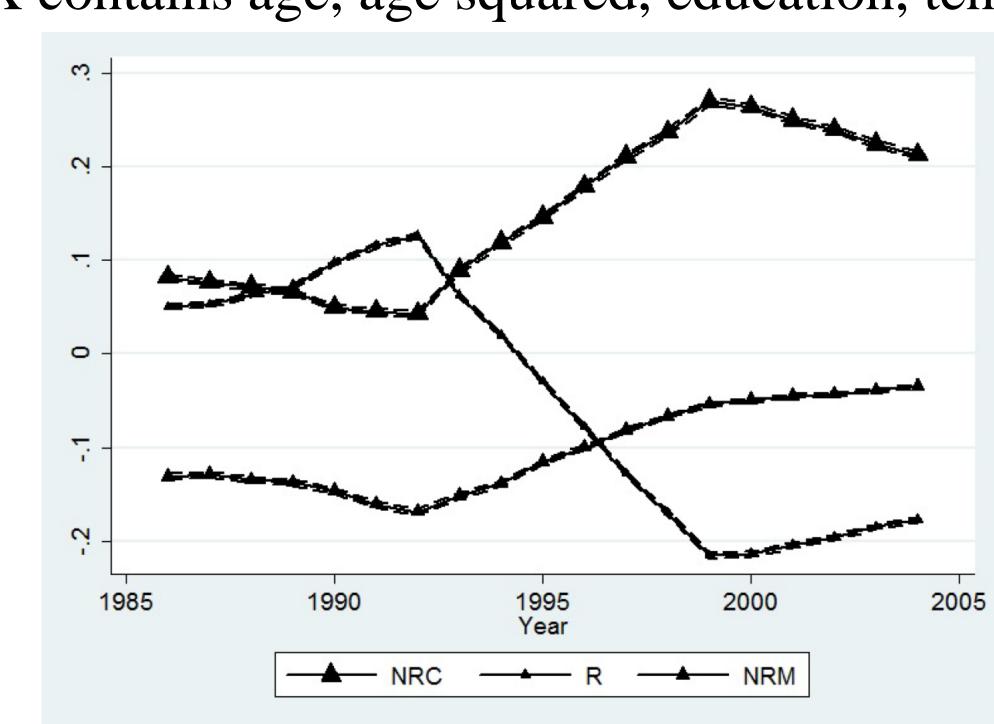
QCS: data used to construct job task profiles by occupation, gender, age, education.

#### SAMPLE RESTRICTIONS

Age 25-55, full-time, stable employment histories

# **EVOLUTION OF TASKS:**

 $TS_i = \beta_0 + \beta_1 \text{ Female} + \gamma X + \epsilon, j = \{NRC, R, NRM\},$ where X contains age, age squared, education, tenure.



Gender Task Gap at the Median of the Wage Distribution

## **MAIN RESULTS**

- •Women experienced substantial increase in NRC tasks.
- •Contributions of tasks to formation of the gender pay gap is more substantial than contribution of education.
- •Trends in relative task profiles hold along the wage distribution.
- •Biggest contribution of NRC to the pay gap is for high earners.
- •Within occupations, men and women perform same task mix, but no convergence in prices is observed.
- → Leading role of occupational sorting

