# Under the Surface of the stalled Revolution

A study of Occupational Gender Segregation in Austria 1974-2003



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## Kontext und Relevanz

Uneven & Stalled Revolution Berufliche Geschlechterteilung State of the Art



## Erwartungen 77

Stagnation?
Asymmetrische Integration



## Forschungsdesign

Daten Mikrozensus 1974-2003 Analysestrategie



## Show me the Data!

Labor Markets Occupations Individuals





The stalled revolution



## Paula England (Prof@NYU) 2010: The Gender Revolution – Uneven and Stalled

The Gender Revolution...

Trend zu Verringerung geschlechtsbasierter Ungleichheiten

Uneven...

Manche Lebensbereiche und manche Gruppen stärker betroffen als andere

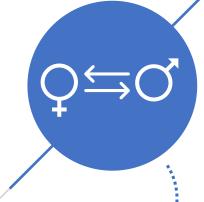
Stalled...

Trend zu Stabilität & Stillstand um Jahrhundertwende



## Geschlechtliche Arbeitsmarkt

Segregation



### **#Sociology101**

Relevant für Ungleichheit zwischen Geschlechtern?

- Segregation & Female Devaluation
- Equality Pradox

Geschlechterrollen beeinflussen unser Verhalten (Kay et al. 2015)

Tatsächliche Repräsentation beeinflusst unsere Geschlechternormen (Beaman et al. 2012)







## Fluch & Segen

Ein Thema, zehn Zugänge, drei Fazite



#### 1. Level der Analyse

- [MACRO] Arbeitsmarkt ⇒ Segregation
- [MESO] Berufsgruppe ⇒ Konzentration
- [MICRO] Individuen  $\Rightarrow$  geschlechts(un)typische Berufs...

#### 2. Messung auf der Makro-Ebene (i.e. Segregation)

- Art der Kategorie (Sektor, Beruf, Tätigkeit, Arbeitgeber, Position etc.)
- Aggregierung der Kategorie (e.g. ISCO08 3-Steller / 2-Steller)
- Verschiedene Maße (ID, WE, SR, IP, MM, etc.)
  - Marignal Matching am robustesten (Blackburn et al. 1993)



## Erwartungen & Hypothesen

Assymetry...



#### **Gender Essentialism** (England 2010)

- 1. Geschlechterrepräsentation in Berufen beeinflusst gendernormen
- 2. Gendernormen machen die Aufnahme geschlechts-untypischer Berufe schwieriger
- 3. Berufe die mehrheitlich von Frauen ausgeführt werden, werden (unabhängig von Fähigkeit, Bildung, und dem Grad gewerkschaftlicher Organisierung) im Durchschnitt schlechter bezahlt

Arbeit in geschlechts-atypischen Berufen v.a. dann wahrscheinlich, wenn damit Aufstieg verbunden ist.





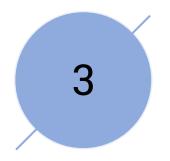
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## Forschungsdesign Peaking under the surface?



#### Macro-Level

Beobachtungen Ö Arbeitsmarkt

+ Zeitachse (Jahre)

⇒ quasi-panel

Variablen Beschäftigtenquote

Segregationsindizes



#### **Meso-Level**

Beobachtungen Berufsgruppen

+ Zeitachse (Jahre)

 $\Rightarrow$  quasi-panel

**Variablen** Genderkonzentration



#### Micro-Level

Beobachtungen Individuen

+ Zeitachse (Jahre)

⇒ repeated cross-section

**Variablen** Gender

Bildung Alter

Arbeitszeit





The stalled revolution



Beobachtungen

Konzepte

30 Jahre des Ö Arbeitsmarkts

Quasi-Panel

Beschäftigungsquote

Segregations indices (MM, ID, SID)





Indices



**Index of Dissimilarity** (Duncan 1955)

Sextyping: 50%

$$D = \sum_{j=1}^{J} |(F_j / F) - (M_j / M)| * 100 * \frac{1}{2}$$

$$SD = \sum_{j=1}^{J} \left[ \left( \frac{Fj}{Tj} / \sum_{j-1}^{J} \frac{Fj}{Tj} \right) \right] - \left[ \left( \frac{Mj}{Tj} / \sum_{j-1}^{J} \frac{Mj}{Tj} \right) \right] * 100 * \frac{1}{2}$$





Indices



Marginal Matching (Blackburn 1993, Siltanen et al. 1995)

Sextyping: Arbeitsmarktbeteiligung

- 2x2 Table
- Somer's D





Berufe im Wandel



Beobachtungen

Konzepte

Berufsgruppen

+ Zeitachse (Jahre)

⇒ quasi-panel

Konzentration

Berufsgeschlecht (30% & 70%)





Die individuelle Ebene



Beobachtungen

Konzepte

5 Mio. Befragte im Mikrozensus

Repeated Cross-Section (Überschneidungen?)

Geschlecht

Alter

Bildung

Teilzeit Arbeit



## Datengrundlage

Mikrozensus Öst. 1974-2003



Längste undruchbrochene Periode mit gleichen Kategorien

Beschäftigungsstatus 14h+ (inkl. Militär /Parental leave)

Teilzeit wenn unter 30h





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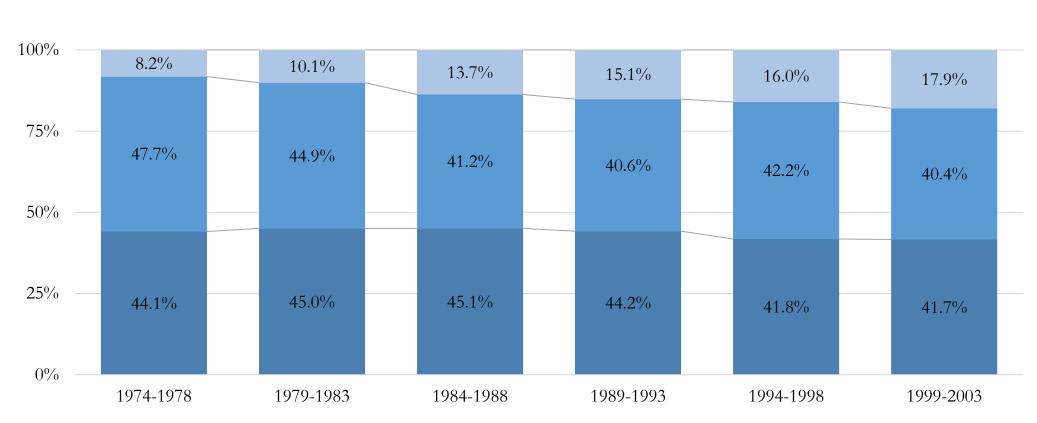


## Show me the Data!

Labor Markets Occupations Individuals



Chart 3. Proportion of occupation genders



■ male

■ integrated

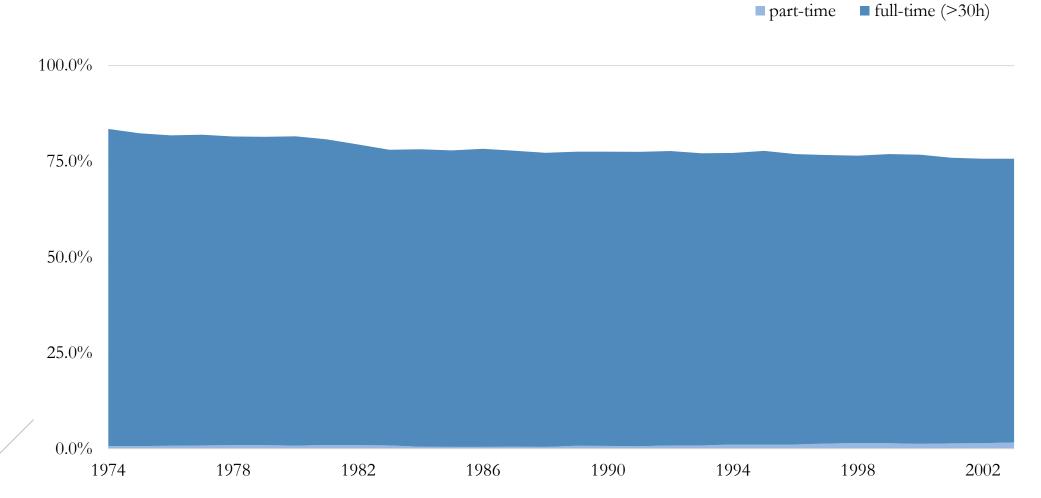
female

Note. Values indicate the five year mean proportion of each occupation gender type. Thresholds of  $p_{women}$  for occupation classification:  $p_{women}(<30\%)$  = male;  $p_{women}(>70\%)$  = female; else = integrated. Data: Micro Census Statistik Austria 1974-2003, weighted working age population.

@philipp\_....



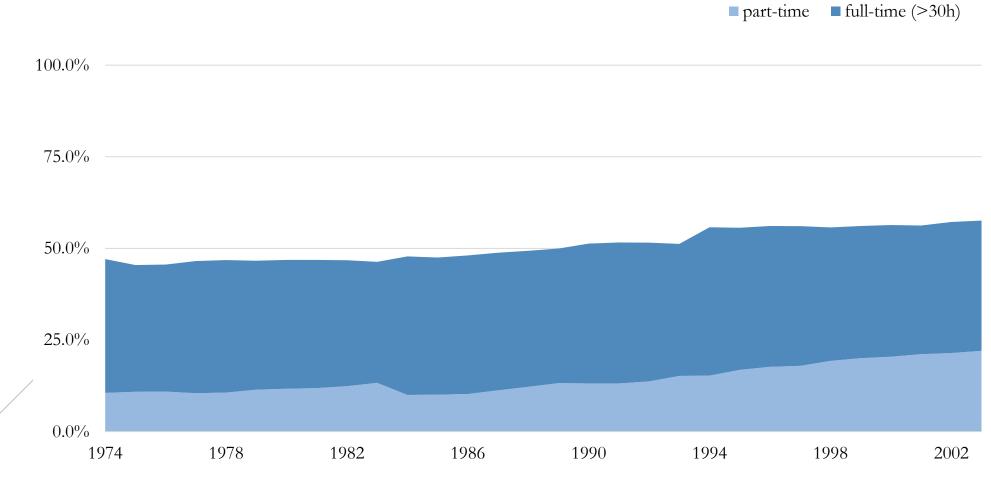
Chart 1. Net male labor force participation



Note. Employment defined as ≥ 14h weekly employment, parttime employment defined as less than 30h. Data: Micro Census Statistik Austria 1974-2003, weighted working age population.

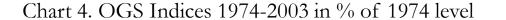


Chart 2. Net female labor force participation

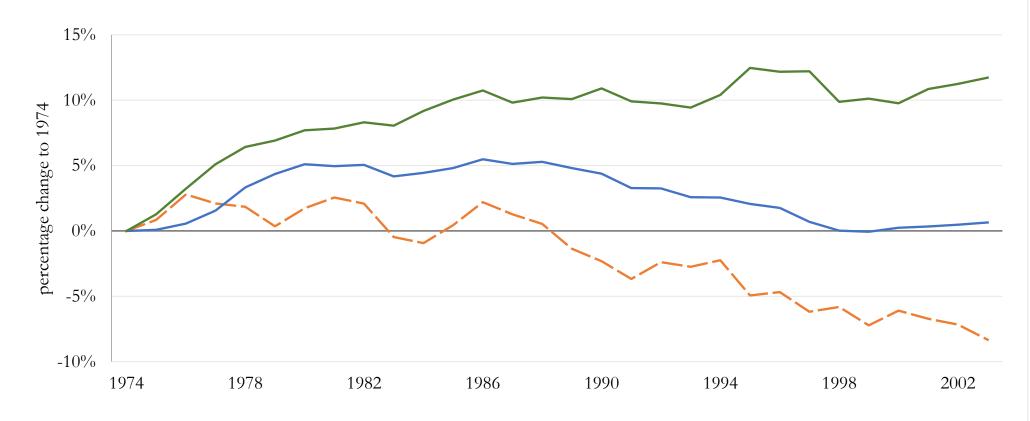


Note. Employment defined as ≥ 14h weekly employment, parttime employment defined as less than 30h. Data: Micro Census Statistik Austria 1974-2003, weighted working age population.









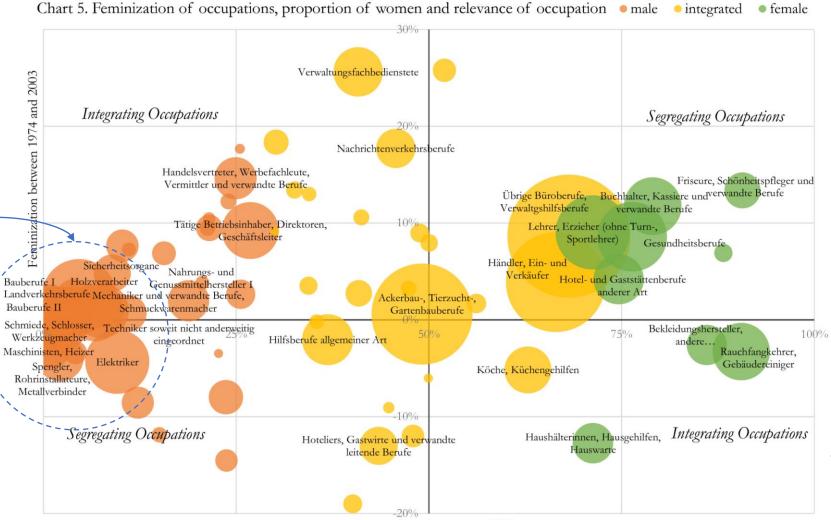
Note. Values indicate the three year roll mean of the percentage changes of index values to 1974 [MM(46.7), DI(54.3) and SDI(54.2)]. Data: Micro Census Statistik Austria 1974-2003, weighted working age population.



## MESO

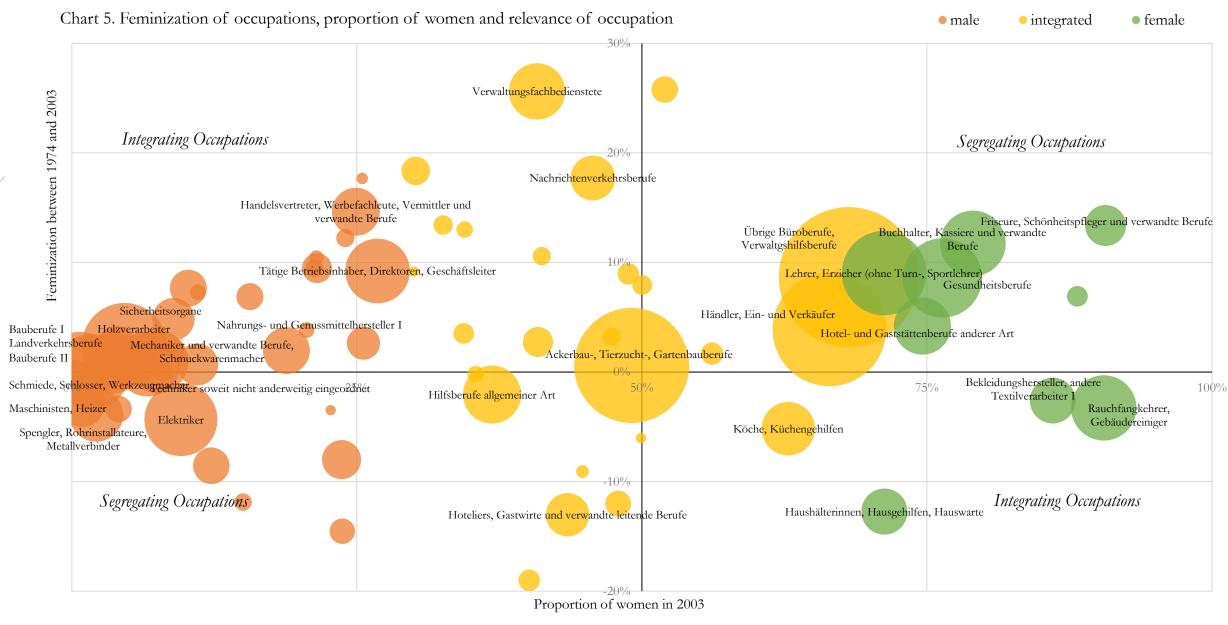
## Occupation-Level

- Konzentration stabiler Berufe
- Beträchtliche Variation



Proportion of women in 2003

Note. Feminization  $\triangleq$  difference in the proportion of women (p<sub>women</sub>) in an organization between 1974 and 2003. Size indicates the average of the proportion of the active labor force practicing occupation across the thirty years. 30 most *relevant* occupations are labelled. Thresholds of p<sub>women</sub> for occupation classification: p<sub>women</sub>(<30%) = male; p<sub>women</sub>(>70%) = female; else = integrated. *Data*: Micro Census Statistik Austria 1974, 2003, weighted



Note. Feminization riangle difference in the proportion of women ( $p_{women}$ ) in an organization between 1974 and 2003. Size indicates the average of the proportion of the active labor force practicing occupation across the thirty years. 30 most *relevant* occupations are labelled. Thresholds of  $p_{women}$  for occupation classification:  $p_{women}$ (<30%) = male;  $p_{women}$ (>70%) = female; else = integrated. Data: Micro Census Statistik Austria 1974, 2003, weighted population.

Chart 6. Part-time effect coefficients for working in an atypical occupation by gender

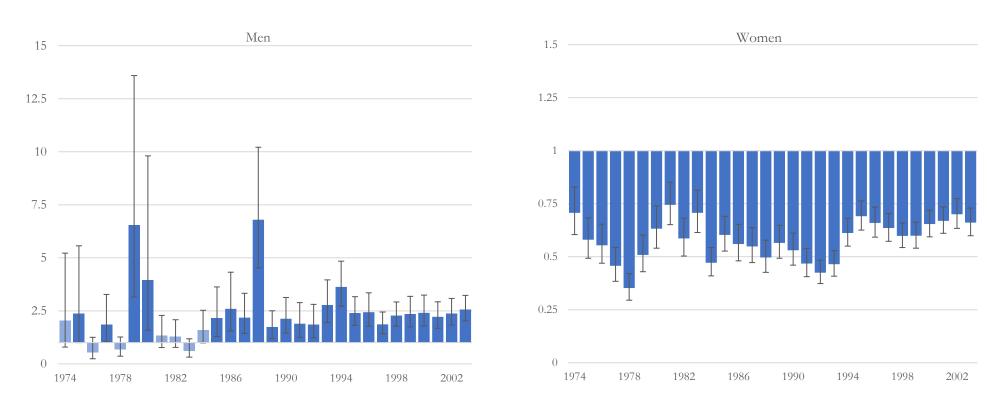
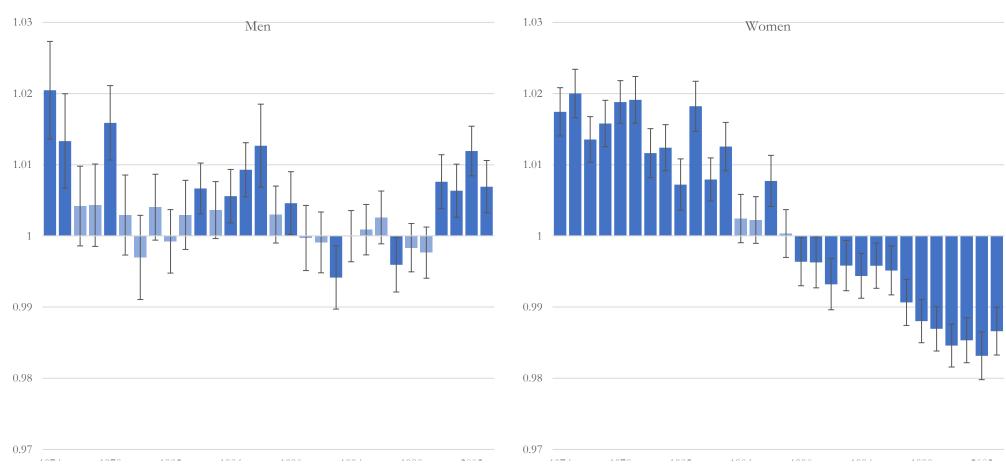
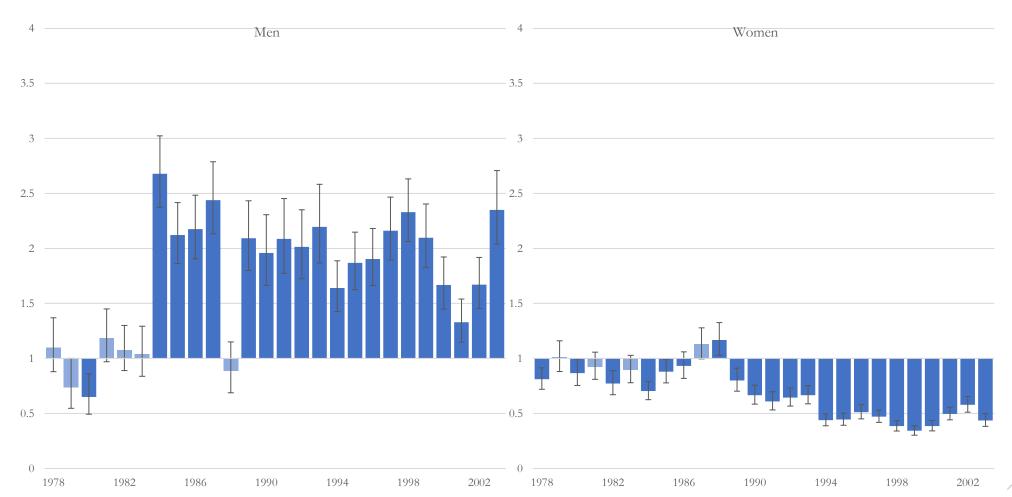


Chart 7. Age effect coefficients for working in an atypical occupation by gender



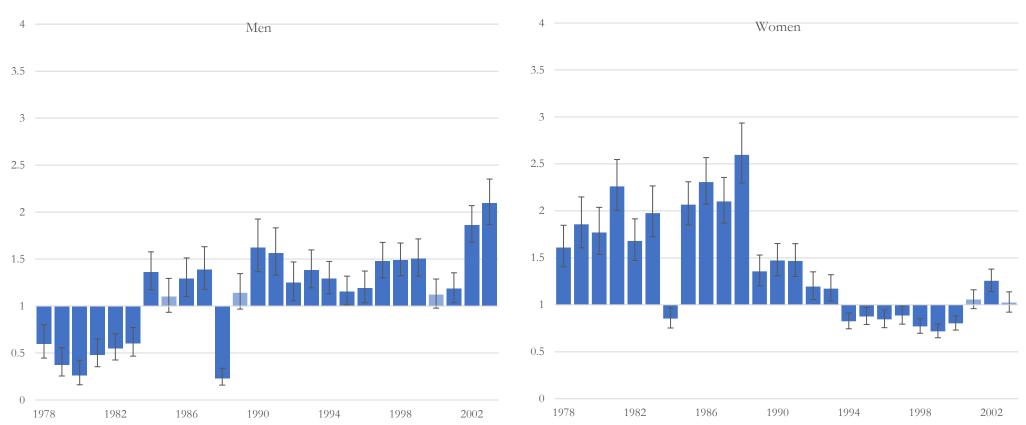
Note. Logistic regression effect coefficients, controls: part-time, education (1978 onwards). Age is centered at 40 years. Data: Micro Census Austria 1974-2003, weighted working age population.

Chart 8. Vocational school (BMS) effect coefficients for working in an atypical occupation by gender



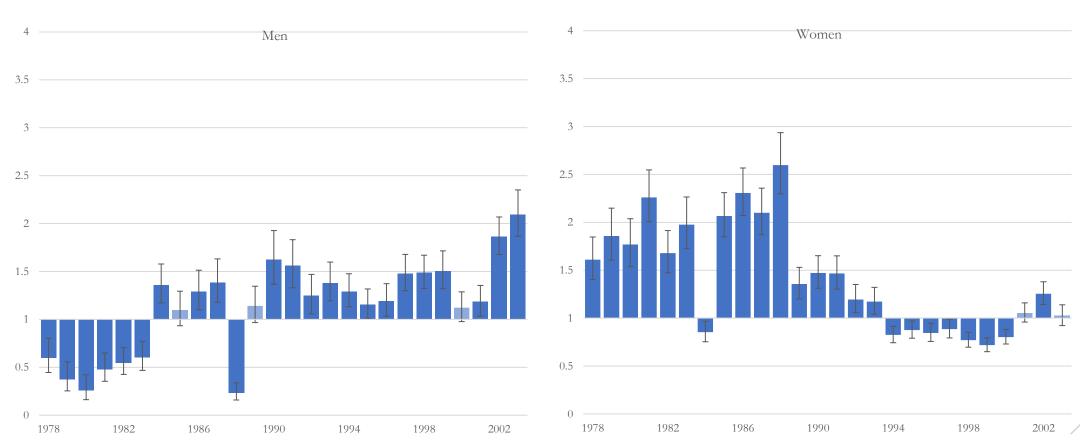
Note. Logistic regression effect coefficients, controls: part-time, age. Reference category: compulsory school. Data: Micro Census Statistik Austria 1974-2003, weighted working age population.

Chart 9. Academic high school (AHS/BHS) effect coefficients for working in an atypical occupation by gender



Note. Logistic regression effect coefficients, controls: part-time, age. Reference category: compulsory school. Data: Micro Census Statistik Austria 1974-2003, weighted working age population.

Chart 9. Academic high school (AHS/BHS) effect coefficients for working in an atypical occupation by gender



Note. Logistic regression effect coefficients, controls: part-time, age. Reference category: compulsory school. Data: Micro Census Statistik Austria 1974-2003, weighted working age population.



## Vielen Dank für Eure Aufmerksamkeit

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