Inequality of Educational Outcome and Inequality of Educational Opportunity in the Netherlands during the 20th Century

Maarten L. Buis

Faculty of Social Sciences
VU University Amsterdam
Changes in the strength of the association between family background and education
Changes in the strength of the association between family background and education

A measure of the ‘unfairness’ of the educational system
Changes in the strength of the association between family background and education

A measure of the ‘unfairness’ of the educational system

Two types:
Subject of the dissertation

- Changes in the strength of the association between family background and education
- A measure of the ‘unfairness’ of the educational system
- Two types:
  - IEOut, Inequality of Educational Outcome: Association between family background and the highest achieved level of education
Changes in the strength of the association between family background and education

A measure of the ‘unfairness’ of the educational system

Two types:

- **IEOut**, Inequality of Educational Outcome: Association between family background and the **highest achieved level of education**
- **IEOpp**, Inequality of Educational Opportunity: Association between family background and the **probability of from one level of education to the next**
Chapter 2  To what extent are known patterns in IEOpp and IEOut replicated in the newest data?
Questions

Chapter 2  To what extent are known patterns in IEOpp and IEOut replicated in the newest data?

Chapter 3  How much is each educational category worth?
Questions

Chapter 2  To what extent are known patterns in IEOpp and IEOOut replicated in the newest data?
Chapter 3  How much is each educational category worth?
Chapter 4  How has IEOOut changed over time?
Questions

Chapter 2  To what extent are known patterns in IEOpp and IEOut replicated in the newest data?

Chapter 3  How much is each educational category worth?

Chapter 4  How has IEOut changed over time?

Chapter 5  Has the relative influence of fathers and mothers, and their occupation and education changed over time?
Questions

Chapter 2  To what extent are known patterns in IEOpp and IEOut replicated in the newest data?
Chapter 3  How much is each educational category worth?
Chapter 4  How has IEOut changed over time?
Chapter 5  Has the relative influence of fathers and mothers, and their occupation and education changed over time?
Chapter 6  How are IEOut and IEOpp related?
Questions

Chapter 2  To what extent are known patterns in IEOpp and IEOut replicated in the newest data?

Chapter 3  How much is each educational category worth?

Chapter 4  How has IEOut changed over time?

Chapter 5  Has the relative influence of fathers and mothers, and their occupation and education changed over time?

Chapter 6  How are IEOut and IEOpp related?

Chapter 7  To what extent are estimates of IEOpp sensitive to potential disturbing influences of unobserved variables?
Chapter 2  To what extent are known patterns in IEOpp and IEOut replicated in the newest data?

Chapter 3  How much is each educational category worth?

Chapter 4  How has IEOut changed over time?

Chapter 5  Has the relative influence of fathers and mothers, and their occupation and education changed over time?

Chapter 6  How are IEOut and IEOpp related?

Chapter 7  To what extent are estimates of IEOpp sensitive to potential disturbing influences of unobserved variables?
Trend in Inequality of Educational Outcome

Men

Women

year in which respondent was 12

IEOut

1920 1940 1960 1980

1920 1940 1960 1980

0.2 0.3 0.4 0.5

trend change in trend

change in trend

trend

year in which respondent was 12

Maarten L. Buis

Educational Outcome and Educational Opportunity
Standard statistical model for IEOpp implies a relationship between the two that has a nice substantive interpretation.
Standard statistical model for IEOpp implies a relationship between the two that has a nice substantive interpretation.

\[
\text{IEOut} = \text{weight}_1 \times \text{IEOpp}_1 + \text{weight}_2 \times \text{IEOpp}_2 + \cdots + \text{weight}_k \times \text{IEOpp}_k
\]
Standard statistical model for IEOpp implies a relationship between the two that has a nice substantive interpretation.

\[
\text{IEOut} = \text{weight}_1 \times \text{IEOpp}_1 + \text{weight}_2 \times \text{IEOpp}_2 + \cdots + \text{weight}_k \times \text{IEOpp}_k
\]

weight = at risk \times variance \times gain
Decomposition of IEOOut in IEOpps and weights
Decomposition of IEOOut in IEOpps and weights

Maarten L. Buis
Educational Outcome and Educational Opportunity