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Human Capital and Inequality

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Changing Views on Inequality - Historical Overview



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CENTRO DE INVESTIGAÇÃO DE POLÍTICAS DO ENSINO SUPERIOR CENTRE FOR RESEARCH IN HIGHER EDUCATION POLICIES

Debates in the XIXth Century – Overview:

- Classical Political Economy Functional vs.
 Personal Distribution;
- Socialism and the Social Question;
- Development of National Statistics;
- The new devices of Graphical Representation

• Pareto – 1895; Lorenz – 1905







The popularity of Pareto's Curve (1848-1923):

- An appearance of stability of
 - inequality across time and space;
- Ineffectiveness of Redistributive Policies;
- Fighting Socialism;
- An Empirical Illusion?
- The critique of Pareto's analysis





New possibilities, new agenda:

- The setting of the NBER (1920) and the Conference of Research on Income and Wealth (1936 -...)
- The improvement of national income statistics;
- The emphasis on explanatory research
 - Statistical vs. Causal approaches
 - Micro vs. Macro perspectives
- The Kuznets' Curve 1955





Simon Kuznets (1901 – 1985) – Nobel (1971)



The Kuznets Curve







Inequality Debates in the Mid-Twentieth

Century:

- Growth vs. Distribution;
- Exogenous and Structural Forces;
- Property and Transmission of Wealth;
- Chance and the limited effects of Redistribution;
- Individual Choices and Characteristics;





Relevance of Inequality for Economics:

- Personal Inequality magnitude, evolution, explanation;
- Effects of inequality in growth, social cohesion, etc;
- Ethical and Political Issues normative debates;





Education And Human Capital





Education and Inequality in mid-XXth Century:

- Cause or Consequence?
- Friedman and Kuznets (1945) Study on Professional Income;
- Jacob Mincer PhD Dissertation (1957) Human Capital and the Personal Distribution of Income;
- The expansion of schooling and the availability of data.





Human Capital Theory







Jacob Mincer (1922-2006) – Gary Becker (1930-2014) – T. W. Schultz (1902-98)





Human capital - stock of skills, knowledge, and expertise accumulated by a worker

Activities that increase Human Capital:

- Schooling
- On-the-job training
- Healthcare
- Migration
- Home activities





Human capital theory:

- Human Capital:
 - Develops skills;
 - Raises productivity in market & non-market activities;
 - Increases potential earnings and economic growth
- Individuals and societies spend resources in HC due to consumption and investment motivations
- Education becomes an individual and social Investment





HC Individual Benefits

Monetary:

- Higher earnings (wage rates/hours of work)
- Lower unemployment
- Longer professional activity

Non- Monetary:

- Non-market productivity
- Health
- Family welfare





HC Social Benefits

Monetary:

- More productive labour force
- Technological progress
- Income inequality
- Labour market efficiency

Non-Monetary:

- Crime reduction
- Social mobility
- Social cohesion
- Health





Education and Income





Returns to Investment in Education Regional Averages (%)

| Region | Social | | | Private | | |
|-------------------------------------|---------|------|------|---------|------|------|
| | Primary | Sec. | HE | Prim. | Sec. | HE |
| Asia | 16.2 | 11.1 | 11.0 | 20.0 | 15.8 | 18.2 |
| Europe/Middle East/ North Africa | 15.6 | 9.7 | 9.9 | 13.8 | 13.6 | 18.8 |
| Latin America/ Caribbean | 17.4 | 12.9 | 12.3 | 26.6 | 17.0 | 19.5 |
| OECD | 8.5 | 9.4 | 8.5 | 13.4 | 11.3 | 11.6 |
| Sub-Saharan Africa | 25.4 | 18.4 | 11.3 | 37.6 | 24.6 | 27.8 |
| World | 18.9 | 13.1 | 10.8 | 26.6 | 17.0 | 19.0 |





Rates of Return by Gender

| Level of Education | Men | Women |
|--------------------|------|-------|
| Primary | 20,1 | 12,8 |
| Secondary | 13,9 | 18,4 |
| Tertiary | 11,0 | 10,8 |

Psacharopoulos e Patrinos (2002)





Rates of Return by Level of Income

| Level of Per Capita Income | Primary | Secondary | Tertiary |
|-------------------------------|---------|-----------|----------|
| High | 25,6 | 12,2 | 12,4 |
| Medium | 27,4 | 18,0 | 19,3 |
| Low | 25,8 | 19,9 | 26,0 |

Psacharopoulos e Patrinos (2002)





Relative earnings of 25-64 year-old workers, by educational attainment

Upper secondary or post-secondary non-tertiary education = 100







Age-earnings profiles:

- Show how typical earnings vary with age and educational qualifications
- Education induces a differential
- Differential tends to increase with age





Monetary Earnings (Mean) for Full-Time, females and males









HC and Income Inequality:

- Expansion of Education & Wage Premium;
- S vs. Demand Scarcity and Abundance;
- S/D curves shift over time;
- Temporary disequilibria Overeducation;
- Skill-Biased Technological Progress;
- Quality & Skills vs. Diploma & Credentials;







Growing Inequality among Graduates – Looking at the Portuguese Case





Educational attainment by Age Groups – Secondary Education



Qualification of the Portuguese Labour Force

(Source: Quadros de Pessoal - Teixeira, Portela, Cerejeira, Simões e Sá)

Wage Premium regarding those Workers with 6 years of schooling for workers aged 30-35 years

Fonte: Teixeira, Portela, Cerejeira, Simões e Sá

Wage Premium for Young Graduates by Type of Degree – University vs. Vocational (1995 – 2005)

(Figueiredo, Teixeira & Rubbery, 2013)

Wage Premium for Young Graduates by Level of Income (1995 – 2005) – M and F

(Figueiredo, Teixeira & Rubbery, 2013)

Wage Premium for Young Graduates by Type of Degree – UG vs. PG (1995 – 2013) (Fonte: Almeida et al, 2017)

Final Remarks

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Higher education and the Labour Market:

- Benefits persist, but growing diversity by gender, type and level of degree, field of study, income, ...
- S and D adjustments
- Social and Political expectations
- Alternative Explanations Screening; Social Reproduction;
- Complex relationships between Education, Income, and the L Market

Revival of Inequality Debates:

- Evolution of Inequality since 1970s;
- Inequality within and between Countries;
- Petering out of some Factors contributing to reduced Inequality;
- Interaction between different factors;