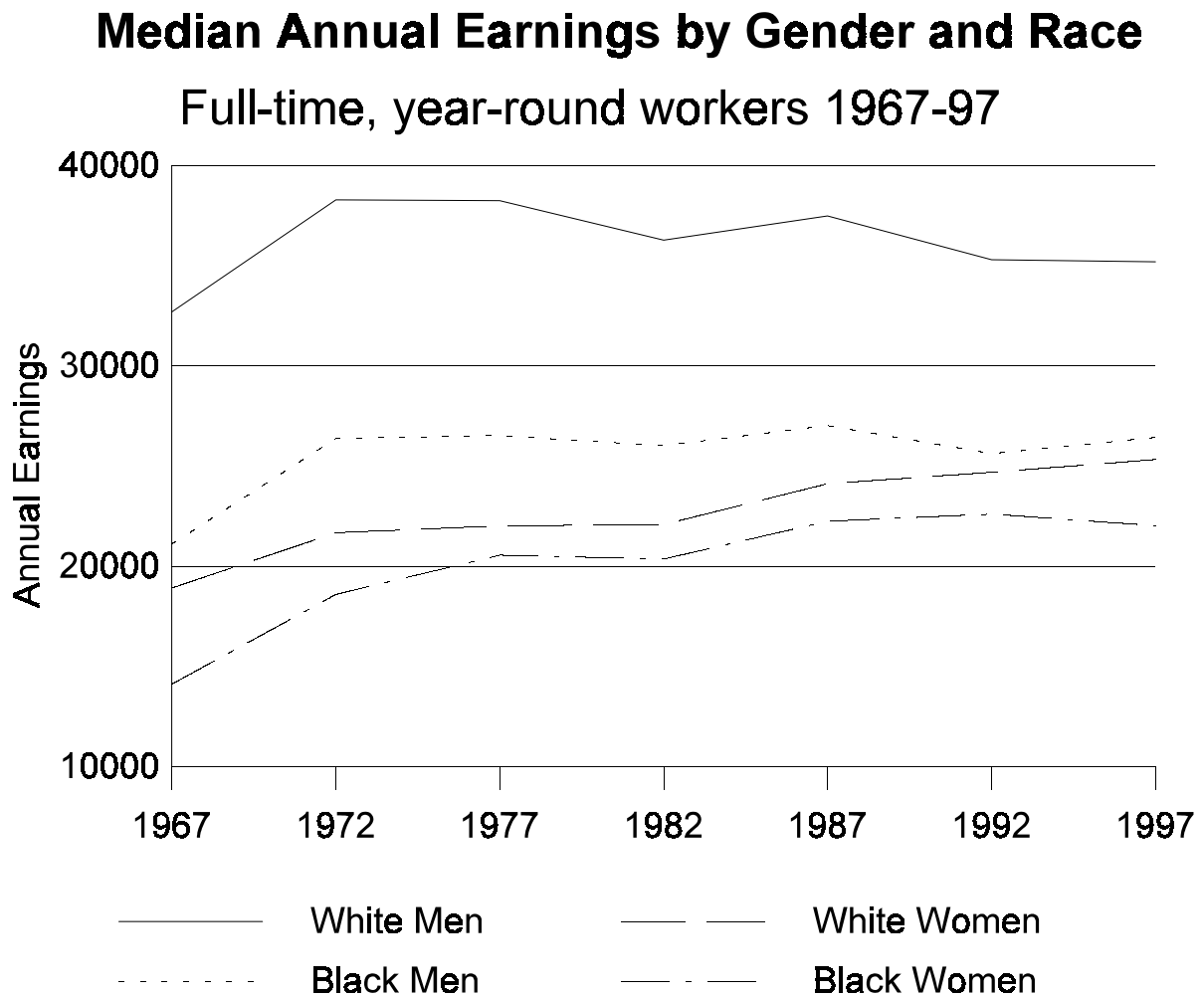


Discrimination in Labor Markets

A. Introduction

1. Disparities in earnings across groups



- annual earnings of black men and women and white women are less than those of white men
- some convergence in recent years (due mostly to drop in earnings for white men)
- pre-1967 differences were even more pronounced

2. How do we account for these differences? To what extent do they reflect discrimination?
3. Concepts (Cain 1986)
 - a. Discrimination – unequal *treatment* for members of groups who differ on some observable characteristic such as gender or ethnicity but do not vary in their underlying productivity; unequal treatment of otherwise equal individuals
 - b. Individual discrimination – unequal treatment of an individual or by an individual firm
 - c. Market discrimination – unequal outcomes for all members of a particular group; in labor markets, we typically focus on wage outcomes
 - d. Prejudice – psychic disutility associated with a worker's demographic or other characteristics which are unrelated to the worker's productivity (motivation for individual discrimination)
 - e. Segregation – unequal representation of different groups with equal productivity and motivation in different markets or occupations

B. Theoretical Models of Discrimination (Cain 1986)

2. Discrimination by consumers
 - a. price of discrimination
 1. assume that consumers are prejudiced (have tastes for discrimination) and are willing to pay a different price to associate only majority workers
 2. price of a majority worker, p

3. price of a minority worker, $p - d$
 4. d captures the value of the taste for discrimination
- b. advantages of measure: continuous, potentially measurable, cost interpretation
 - c. disadvantages: does not measure stigma felt by victim, requires interaction between minority workers and consumers
 - d. leads to segregation but not necessarily wage differentials; hence, market level of discrimination might well be zero
 - e. provides an insight into the difference between individual- and market-level discrimination
 - f. more intriguing insight: segregation eliminates wage discrimination
2. Discrimination by workers
 - a. majority worker's wage demand with other majority workers, w
 - b. demand with minority workers, $w + d$
 - c. again leads to segregation but not necessarily market discrimination; if there are equal skills across workers, competition among employers, and mobility across markets, minority workers can still earn w elsewhere
 3. Discrimination by employers
 - a. assume all employers discriminate and set wages for minority workers at $w - D$; this does lead to a sustainable equilibrium
 - b. if instead employers discriminate to varying degrees ($w - d_i$), market differential will (if there are few

enough minority workers) simply be the lowest level of d_i (0 if some employers do not discriminate)

- c. again, the model leads to segregation but not necessarily wage discrimination
4. Product monopoly
 - a. two advantages of assuming a monopoly:
 - 1) definitional uniformity in tastes
 - 2) above-competitive profits to support d_i
 - b. disadvantage: does not necessarily translate to monopoly power in labor market
 - c. thus, the firm would still have to pay w to minority workers, though it could segregate workers or pay higher wages to majority workers
 5. Monopsony – single buyer of labor
 - a. in this case the firm has power in the labor market
 - b. permits exploitation ($[VMP - w] / w$); greater exploitation allowed for group with more inelastic labor supply curve
 - c. genuine monopsonies (e.g., one company towns) are rare; although its not hard to imagine that some firms at some times have a limited amount of market power
 - d. need to consider the elasticity of labor supply carefully; for instance, the model does not explain discrimination against women (who presumably have more elastic labor supply curves than men)
 6. Labor unions as monopolies
 - a. to secure monopoly rents, some method of restricting

entry is a necessary first step

- b. if discrimination is consistent with members' tastes, could help to prevent members from defecting
 - c. not clear that union story matches up with time series evidence on discrimination
 - d. also is not consistent with recent trends in union membership
7. Statistical discrimination
- a. let q be worker's true innate productivity
 - b. employer observes $y = q + u$; y provides employers with a signal of q
 - c. employers pay $w = E(q | y)$
 - d. leads to individual discrimination but not group discrimination (in fact some minority workers are made better off)

C. Empirical tests

2. Regression methods

- a. Standard model, regress earnings on a set of observed productivity characteristics, \mathbf{X} , and a group (minority = 1) identifier, Z

$$W = \mathbf{X}'\mathbf{B} + AZ + e$$

estimates that $A < 0$ are taken to indicate that discrimination is present

- b. first issue is whether the productivity characteristics are exogenous or reflect past or pre-market discrimination

- 1) e.g., previous employers could have discriminated in deciding whether to provide training
 - 2) there may be segregation or discrimination in access to quality schooling
 - 3) no simple rules as to what variables to include
- c. second issue is the possibility that a productivity characteristic that is correlated with group status is omitted
- 1) leads to omitted variable bias
 - 2) effects of productivity and group status will be confounded
- d. findings
- 1) using “standard” controls for productivity such as level of schooling and potential work experience typically reduces but does not eliminate the differences in wages
 - 2) including more elaborate productivity/ability controls such as AFQT (see, e.g., O’Neill 1990) can eliminate the difference in wages
3. Audit methods
- a. methodology
- 1) send two equally (or artificially) matched job candidates to apply for jobs
 - 2) record the reactions that each encounters
 - 3) look for systematic differences in treatment
- b. advantages:
- 1) presumably controls for productivity differences

- 2) can examine reactions at all stages of the application process
- 3) is useful in detecting subtle differences in behavior

c. disadvantages:

- 1) hard to truly control for all relevant differences; Heckman (1998) shows how particular distributions of relevant differences can lead to false conclusions of discrimination
- 2) relatively expensive (have to train and compensate testers)
- 3) informed testers may look too hard for differences (more generally, there may be differences in perceptions between majority and minority testers)
- 4) possibly unethical (people are applying for jobs they don't intend to fill and taking up firms' interviewing resources)
- 5) only indicates individual discrimination, not market discrimination

d. results from Urban Institute study in Washington (from Heckman 1998)

- 1) both get job 16.6%
- 2) neither gets job 58.5%
- 3) white gets job, black doesn't 19.1%
- 4) black gets job, white doesn't 5.8%
- 5) does this indicate discrimination?
- 6) Heckman (p.105) argues: "Only a zealot can see evidence in these data of pervasive discrimination"

in the U.S. labor market” (basis of this argument is that whites are treated favorably only 19.1% of time)

- 7) viewed another way, the chances for employment are substantially higher for whites vs. blacks (35.7% vs. 22.4%)

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