Corporate Governance, Favoritism and Careers

Marco Pagano¹ and Luca Picariello²

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¹University of Naples Federico II, CSEF & EIEF ²University of Naples Federico II & CSEF

Motivation

- "Managing promotions effectively is one of the most powerful ways leaders can drive their company's success" (Rohman et al., Harvard Business Review, 2018).
- But the interests of controlling shareholders may not be aligned with that of other investors: their favorite candidates for promotions may not be the most deserving ones.

This paper

- Promotion policies trade off monetary gains from meritocratic promotions against private benefits from favoritism.
- Corporate **governance** standards affect:
 - ► the incentive to promote employees based on merit → employees' expected career paths
 - ► employees' matching with employers and initial educational choices → skill composition of the workforce

Main Findings

- 1. Firms that adopt **meritocratic promotion rules** pay higher wages and feature higher productivity and profitability.
- Better corporate governance, by limiting the extraction of private benefits, raises the fraction of meritocratic firms → in a sorting equilibrium, improves the employment and promotion prospects of high-skill workers.
- Labor market competition ambiguously affects workers' career choices: it raises expected wages, but reduces the share of job openings in meritocratic firms.
- If workers' educational choices are determined endogenously, there are multiple equilibria: those with a greater fraction of meritocratic firms feature greater productivity, wages and profits → efficiency rationale for corporate governance.

Related Literature

Normative debate on firms' objective function:

- shareholderism (Friedman, 1962; Shleifer & Vishny, 1997);
- stakeholderism (Tirole, 2001; Magill et al. 2015).

Our model: no contrast between shareholder value maximization and concern for stakeholder welfare.

 Corporate governance externalities: Acharya & Volpin (2010); Dycks (2012); Levit & Malenko (2016).

Our model: GE interactions between corporate governance, labor market outcomes and firm production decisions.

Careers and favoritism:

- discrimination (Becker, 1957; Huang et al., 2021);
- favoritism (Prendergast & Topel, 1996; Friebel & Raith, 2004);
- competition and talent allocation (Waldman, 1983; Dato et al. 2021; Bar-Isaac & Levy, 2022).

Our model: role of corporate governance.

The Model

- Unit mass of firms with 1 unit each. Each unit needs N workers and a capital stock whose cost is standardized to 1.
- The entrepreneur funds investment out of his wealth A < 1 and 1 − A via equity issued to competing investors, entitling them to a fraction 1 − α of the firm's profits.
- All players are risk-neutral and feature no discounting.
- Employees are either assigned to a production task or trained for a managerial one (promotion):
 - N_L low-skill workers produce x > 0 in either task;
 - N_H high-skill workers produce either x > 0 in the production task or (1 + Δ)x in the managerial one.
 - ► In each unit there is one manager and N − 1 productive workers.
- At the hiring stage, only workers know their type. After the hiring stage, types become observable to firms, but are not verifiable → no commitment to promotions.

The Model ct'd

- The entrepreneur can require promoted workers to generate a firm-specific private benefit B for him, but this prevents high-skill workers from producing Δx.
- ► The taste for private benefits varies across entrepreneurs: B ~ U[0, B].
- ▶ The entrepreneur extracts private benefits with probability 1 g, where $g \in [0, 1]$ is the quality of corporate governance.
- The total workforce (M) exceeds aggregate labor demand (N), and comprises M_H high-skill and M_L low-skill workers.

Time Line



Wage Setting

• At t = 3, workers get a poaching offer with prob. $p \in (0, 1)$.

- Competing firms observe employees' quality and promotion status in their current firm.
- Equilibrium wages are:

$$w = \left\{ egin{array}{c} p(1+\Delta)x & ext{for high-skill promoted workers,} \\ px & ext{otherwise.} \end{array}
ight.$$

The opportunity cost of the private benefit B is p∆x larger if produced by a high-skill worker → only low-skill workers are asked to generate B.

Promotions

- Entrepreneurs decide whether to promote high-skill (meritocracy) or low-skill (favoritism) workers:
 - ► trade-off the expected private benefit (1 g)B against the monetary gain from greater productivity implied by meritocratic promotions α(1 - p)Δx;
 - promote according to merit if equity stake is large enough:

$$\alpha \ge \frac{(1-g)B}{(1-p)\Delta x} \equiv \hat{\alpha},\tag{1}$$

Assumption

The entrepreneur will never extract private benefits of control if he is the sole owner of the firm:

$$\frac{\bar{B}}{(1-p)\Delta x} \le 1.$$
 (2)

External Financing

At t = 2 the entrepreneur raises 1 − A by pledging a share 1 − α of the profits to competitive risk-neutral investors.

Investors' participation constraint:

$$(1-\alpha)\pi=1-A.$$

Firm's per-dollar profits depend on its promotion rule:

$$\pi = \begin{cases} \pi_H = (N + \Delta)(1 - p)x & \text{with meritocratic promotions} \\ \pi_L = N(1 - p)x & \text{otherwise.} \end{cases}$$

We assume that π_L ≥ 1: even firms that do not promote workers based on merit are viable.

Equilibrium Promotions

The entrepreneur's stake in the firm is determined by investors' participation constraint:

$$\alpha_i^* = 1 - \frac{1 - A}{\pi_i}$$

• In equilibrium $\alpha_H^* \ge \hat{\alpha} > \alpha_L^*$:

Proposition (Optimal Promotion Rule)

The entrepreneur promotes high-skill workers if $B \le B^*$ and low-skill workers if $B > B^*$, where

$$B^* \equiv \frac{1}{1-g} \left[\Delta(1-p)x + \frac{\Delta}{N+\Delta} \left(A - 1 \right) \right] > 0.$$
 (3)

• The fraction of meritocratic firms is $q \equiv B^*/\bar{B}$

Firm Distribution



Cross-sectional distribution of private benefits of control (B)

- The fraction of meritocratic firms is $q \equiv B^*/\bar{B}$ is:
 - increasing in the quality of corporate governance (g), the incremental productivity of promoted skilled workers (Δx) and the internal equity share (A);
 - decreasing in labor market competitiveness (p) and in the maximal potential private benefit (B).

Workers' Job Selection

- ► At t = 1, workers choose which jobs to apply for, and firms randomly hire from the applicants' pool.
- Workers can distinguish meritocratic firms from non-meritocratic ones.
 - As firms are homogeneous in each group, workers simply choose whether to apply for jobs in one of the two groups.
- Let $m_i = M_i/M$ denote the fraction of job-seekers of type *i*, and $a_M = A_M/M$ the fraction of applicants for jobs in meritocratic firms.
- Workers who apply for a job but are not hired remain unemployed and earn the reservation (zero) wage.

Sorting Equilibrium

High-skill workers apply for jobs in meritocratic firms if



Low-skill workers apply for jobs in non-meritocratic firms if

$$rac{1-q}{1-\hat{a}_M} p x > rac{q}{\hat{a}_M} p x,$$

Proposition (Labor Market Sorting)

High-skill and low-skill workers respectively apply for jobs in meritocratic and non-meritocratic firms if $\theta m_H < q < m_H$ where $\theta \equiv \frac{N}{(1-m_H)\Delta+N} \leq 1$. In equilibrium $a_M^* = m_H$ and $1 - a_M^* = m_L$.

Corner Equilibria

- ► If $q \le \theta m_H$ both high-skill and low-skill workers apply for jobs in non-meritocratic firms.
 - The only rational belief is $\hat{a}_M = 0$.
 - Meritocratic firms are unable to operate: in equilibrium $\hat{q} = 0$, where \hat{q} denotes the fraction of *active* meritocratic firms.
- If $q \ge m_H$, both high-skill and low-skill workers apply for jobs in these firms.
 - ▶ In this scenario, all workers will apply for jobs in meritocratic firms, so that $\hat{a}_M = 1$, and $\hat{q} = 1$.

Endogenous Skill Acquisition

- We now endogenize the skill composition of the workforce through workers' educational choice at t = 0:
 - workers are of low quality unless educated at cost $\psi > 0$;
 - investment in education is socially efficient.
- ► Two-way relationship between educational choices and fraction of meritocratic firms → multiple equilibria.

Multiple Equilibria



- Three equilibria with different fractions â_M of workers are expected to apply for jobs in meritocratic firms:
 - 1. equilibrium where $\hat{a}_M = 0 \rightarrow$ these firms inactive $\rightarrow m_H^* = 0$;
 - 2. intermediate equilibrium where \hat{a}_M is such that $q \in (\theta \hat{a}_M, \hat{a}_M)$;
 - 3. equilibrium where $\hat{a}_M = 1 \rightarrow$ only these firms active $\rightarrow m_H^* = 1$.

Intermediate Equilibrium

Let us characterize workers' educational choice and the resulting m^{*}_H in the intermediate equilibrium where workers sort across firms when searching for jobs.

Proposition

In the intermediate equilibrium, the fraction m_{H}^{*} of skilled workers is uniquely defined by the indifference condition balancing the expected benefit of education with its cost:

$$\frac{NI}{M}\left[\frac{q}{m_H^*}\frac{\Delta+N}{N}-\frac{1-q}{1-m_H^*}\right]px=\psi.$$
(4)

The equilibrium fraction m_H^* is increasing in the quality of corporate governance, g. An increase in labor market competition p has an ambiguous effect on m_H^* : this is increasing in p for $p < p^*$ and decreasing for $p \ge p^*$, where $p^* \in (0, 1/2)$.

Intermediate Equilibrium ct'd

- ▶ Better corporate governance increases the fraction of meritocratic firms → raises workers' incentive to acquire education; it also increases social welfare.
- The effect of labor market competition on educational choices is ambiguous: it raises
 - 1. workers' bargaining power \rightarrow expected wage upon promotion;
 - 2. the retention cost of high-skill workers \rightarrow discourages firms from promoting skilled workers.
- ► If the labor market is not too competitive (p ≤ p*), the first effect prevails.
- ► If instead p > p*, the second effect dominates: an increase in labor market competition will reduce the fraction m^{*}_H of skilled workers.

A Graphical Example



- Vertical axis: corporate governance quality (g).
- Horizontal axis: labor market competition (p).
- Shading: fraction of skilled workers $(m_H^*$: right-hand scale).

Corner Equilibria

Proposition

The economy features two corner equilibria:

1) one where $\hat{a}_M = 0$ and no worker acquires education: $m_H^* = 0$;

2) one where $\hat{a}_M = 1$ and all workers acquire education: $m_H^* = 1$.

- If no one is expected to apply for jobs in meritocratic firms, these firms are expected to be inactive, being unable to attract the necessary workforce → optimal not to acquire education.
- The opposite applies if everyone is expected to apply for jobs in meritocratic firms.
- The equilibria are Pareto-ranked: a higher share of skilled workers and meritocratic firms are associated with higher expected social surplus.

Conclusions

 Workers' careers may be shaped by favoritism and discrimination if the objectives of controlling shareholders are misaligned with those of external financiers.

Corporate governance standards:

- improve the share of meritocratic companies, hence the skill composition of the workforce and aggregate productivity and average wages.
- Labor market competition has an ambiguous effect:
 - it raises wages upon promotion and thus workers' incentive to acquire skills;
 - but it also increases retention costs, thus reducing the share of meritocratic firms.
- ► Endogenous skill acquisition ⇒ multiple equilibria: fraction of meritocratic firms positively correlated with that of skilled workers across equilibria.