

PAY PEANUTS AND GET MONKEYS?

Evidence from NZ Universities

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Westpac Institutional Bank

Glenn Boyle

Executive Director, NZ Institute for the Study of Competition and Regulation

PEANUTS AND MONKEYS, MONKEYS AND PEANUTS...

James Goldsmith...



 \Rightarrow



BUT DO PEANUTS REALLY BEGET MONKEYS?

- Contrarian views
 - intrinsic motivation, not money
 - 'peanuts attract a better class of monkey'
- Data difficulties
 - how does one identify 'peanuts' or 'monkeys'?
 - privacy constraints

REQUIREMENTS FOR 'CLEAN' INVESTIGATION

- A single worker task
- Sub-group variation in remuneration
- Objective measure of sub-group performance

Due to PBRF, the NZ university system now provides data that meet these requirements.



PBRF

- Splitting of research and teaching funding
- All NZ academics required to submit a research portfolio for assessment by one of 12 panels covering 41 disciplines
- Each portfolio assigned a 'quality' grade
 (A, B, C, R = 10, 6, 2, 0)
- Individual scores not made public, but performance measures for each discipline computed and reported



PERFORMANCE MEASURES

- Average Quality Score
 - arithmetical average of discipline-researcher scores
- Proportion of R grades
 - 'prevalence of monkeys' in discipline



HOW ARE NZ ACADEMICS PAID?

- NZ academic pay depends only on rank, not on discipline
- But disciplines vary in labour market opportunities

If a university went ahead and paid equally, lowering economists' pay and raising French professors' pay, it would have a great French staff and a dreadful bunch of economists.

(Hamermesh, 2004, p180)



DISCIPLINE-SPECIFIC OPPORTUNITY COSTS

Available proxy: US discipline-specific academic salaries

Remuneration Shortfall (RS) = average US salary - average NZ salary

If peanuts beget monkeys, then high RS should be associated with weak research performance

SOME SIMPLE NUMBERS: I

DISCIPLINE CHARACTERISTIC	MEAN	MAX	MIN
Average Quality Score	2.79	4.74	0.34
Proportion of R grades	0.36	86.7	7.5
Remuneration Shortfall	\$20,910	\$90520	-\$340

SOME SIMPLE NUMBERS: II

Top-5 Average Quality Score

<u>Discipline</u>	RS ranking
Philosophy	36
Anthropology and Archaeology	35
Earth Sciences	23
Ecology, Evolution and Behaviour	21
Biomedical	14

SOME SIMPLE NUMBERS: III

5 Most Underpaid

<u>Discipline</u>	AQS ranking
Accounting & Finance	34
Management etc	31
Law	20
Marketing and Tourism	30
Computer Science etc	26

REGRESSION ANALYSIS

Research performance = a + b*RS + c*X + e

X= vector of control variables:

- History and research culture
- 'Dilution' of available resources
- Government funding category
- Ability to influence panel decisions

RESULTS SUMMARY

Average Quality Score -0.45 (-15%)

Percentage of R grades 8.4pp (26%)

Both effects are 'statistically significant' at 0.1% level



'RANKING' OF EXPLANATORY VARIABLES

Variable	'Relative' Ranking
1. History and research culture	2.5
2. "Dilution" of available resources	2.0
3. Remuneration Shortfall	1.0
4. Government funding category	0.6
5. Ability to influence panel decisions	0.4



MONKEY ECONOMICS?

- 'Monkey-mimicking' behaviour
 - consulting work
 - but applies to other countries as well, and therefore shouldn't affect research scores
- RS a signal of 'quality'
 - but then high-RS disciplines should have high research scores
- Part-time workers
 - endogenous response
- New researcher bias
 - age
 - proportion of non-submissions



MONKEY ECONOMICS? cont.

- Sample size
 - but same relationship exists in department-level data
- "Teaching matters too!"
 - but requires +ve correlation between RS and teaching performance!
 - teaching and research quality +vely correlated
- · Work shifting
 - takes place within disciplines
 - no reason for why high-RS disciplines should systematically differ from low-RS disciplines

CONCLUSION

- The greater a discipline's average salary in US universities, the weaker its research performance in NZ universities.
- NZ universities apparently get what they pay for: disciplines in which the fixed compensation is high relative to opportunity cost are best able to recruit high-quality researchers.
- Paying (relative) peanuts attracts mainly monkeys

HEALTH WARNING!

