Behavioral Economics Term-Paper

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1 Reserch Topic

Economic Evaluation of the Behavior of Athletes

- Cases from Major League Baseball Players -

In this research, I try to specify reference-dependent preference of the professional baseball players about their performance. More specifically, they prefer their "batting average" or "on-base percentage" with slightly larger than some round-numbers (.300, .350, and so on), to just below them.

2 Motivation

Exploiting these specification to design optimal contracts with the professional athletes.

3 Literature Review and Extention

There are many empirical research that test the existence of a certain reference points in individuals' preference.

Pope and Simonsohn(2011) specified that round numbers act as a reference point, expoiting three empirical researches. One of these studies, they utilized the case of professional baseball players in Major League Baseball (MLB). According to this, batters prefer finishing their season with their batting average just above .300 to just below that number, which makes the distribution of their batting averages at the end of each season has a discontinuity around .300. Roughly, I follow this method of specification.

On the other hand, however, there are some alternative interpretation to the discontinuity, such as the existence of monetary incentives. I have to make some analysis on the evaluation by the team managers. Hakes and Sauer(2006) measured the impact of the pulication of 'Moneyball' (Michael Lewis, 2003), which points out that they

underestimates the contribution of on-base percentage, rather than batting average, to increasing their scores, and raising winning percentage. Hakes and Sauer utilized statistical methods to find that the underestimation leads to inefficient contracts in the labour market in MLB, and that this inefficiency was relaxed after the publication of 'Moneyball.'

4 Hypothesis

Aggregating these two studies, I test two hypotheses below:

- Professional Baseball players have round-number reference point about their batting-indexes, such as batting average or on-base percentage.
- After the publication of 'Moneyball,' their attachment to batting average declines, which results in smaller/no discontinuity in the distribution.
- 5 Key Assumtions
- 6 Model & Data