Chicken soap

HUST Bioinformatics course series for '17 class

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Section 1 : outline

Outline

- 实力与包装：who i am underneath vs. whom people see in me
- how people in science see each other
- think in English
- think creative

section 2 : contents

信号传递理论： **Michael Spence**

观察：

- MBA 学生在进哈佛大学之前没什么了不起
- 出去就能比教授挣几倍、甚至十几倍的钱
- "这是为什么？"

结论：

- 教育具有信号传递的作用

Michael Spence, "Job Market Signaling", Quarterly Journal of Economics, 1973

2001 Nobel price in Economics
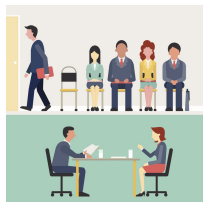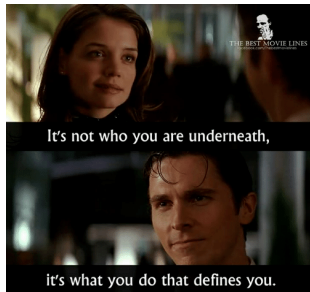
信号传递理论：实力与包装

信号传递理论的核心：动态不完全信息对策

1. 发送信息
2. 决策

Figure 1: Job interview cartoon

包装与实力

- Batman Begins 2005

Figure 2: The Batman Begins movie 2005

包装的素材

教育经历
- 名校
- 学科

科研经历
- 项目
- 成果
- 奖项

个人经历
- 干部
- 实习（领域知名企业）

how peolpe in science see each other

Figure 3: The most important illustration in science

lessions learned so far

- know your audiences (what they expect from you)
- be useful (in the long run)

think in English

怎么练习口语和语感？

1. Find a short article that you know every word
2. Read it aloud at a quiet place so that you can hear it
3. Do this everyday for **three years**

think creative

How?

1. Read a research paper
2. Find three limitations of the research
3. Address these issues with your own ideas
4. Do this once a week for **three years**

try find your own truth

未经调研，不要轻易相信别人结论，特别是科普文章。

There is a reproducibility crisis in scientific community:

- 70% of researchers failed to reproduce others' experiments
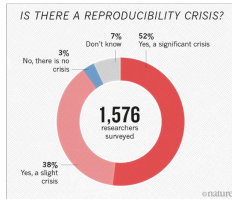- 50% failed to reproduce their own

Figure 4: reproducibility crisis (Nature 2015 survey)

Concluding remarks

- 有实力、会包装
- 不轻信
- 执着