Chicken soap

HUST Bioinformatics course series for undergraduates

Wei-Hua Chen (CC BY-NC 4.0)

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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

- 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

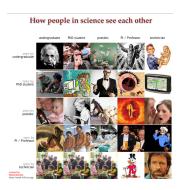


Figure 3: The most important illustration in science

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?

- Find a short article that you know every word
- Read it aloud at a quiet place so that you can hear it
- O this everyday for three years

think creative

How?

- Read a research paper
 - Find three limitations of the research
- 4 Address these issues with your own ideas
- O bo 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

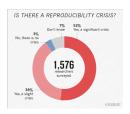


Figure 4: reproducibility crisis (Nature 2015 survey)

Concluding remarks

- 有实力、会包装
- 不轻信
- 执着