



# Persistent overconfidence and memory

Cambridge Economics Alumni Webinar Series

Dr Julia Shvets February 2022 Collaboration with David Huffman and Collin Raymond



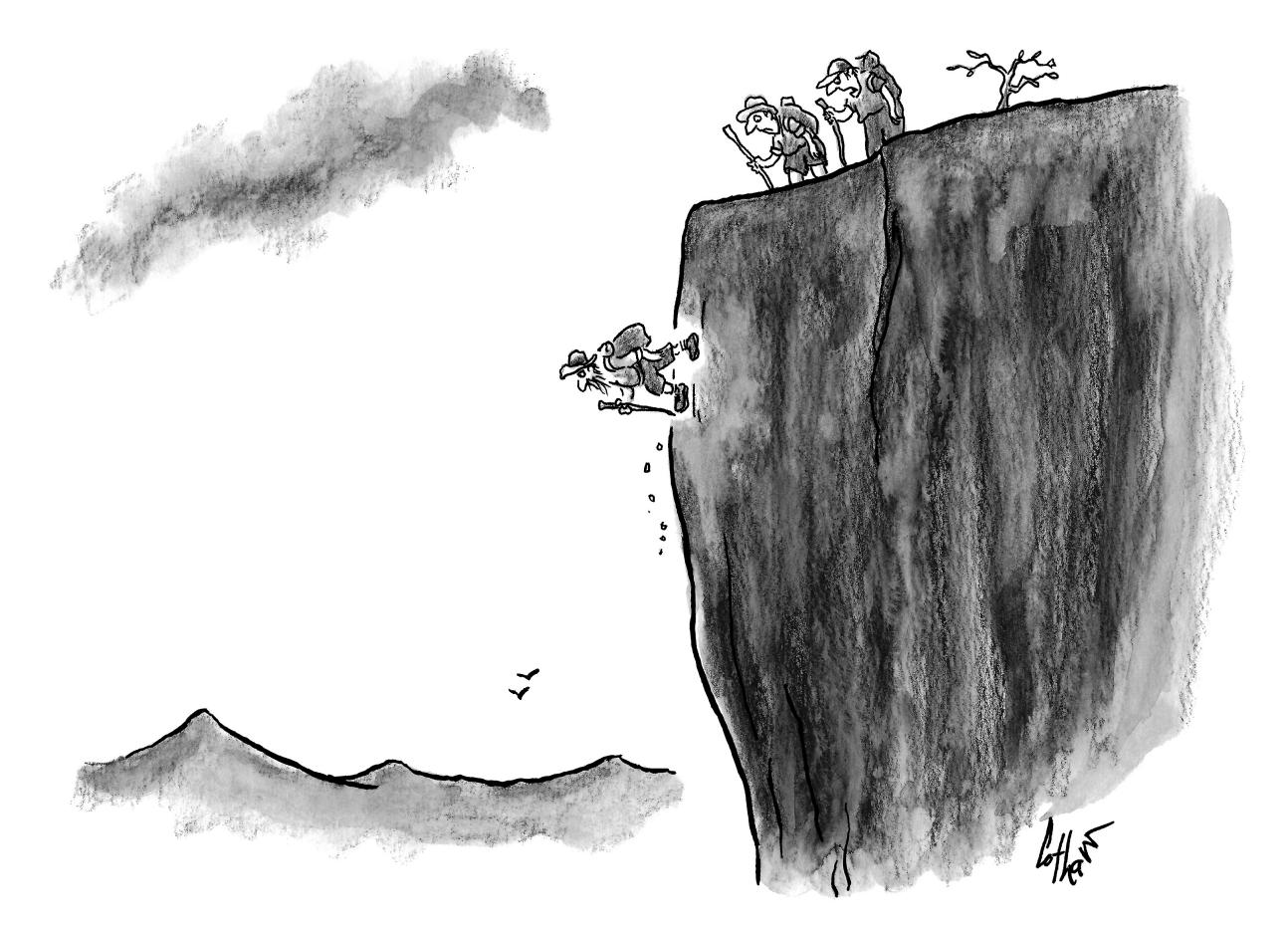


and a large firm

Funded by The Keynes Fund



#### Overconfidence



"Let's not mistake his confidence for leadership."

Source: The New Yorker; Artist: Frank Cotham

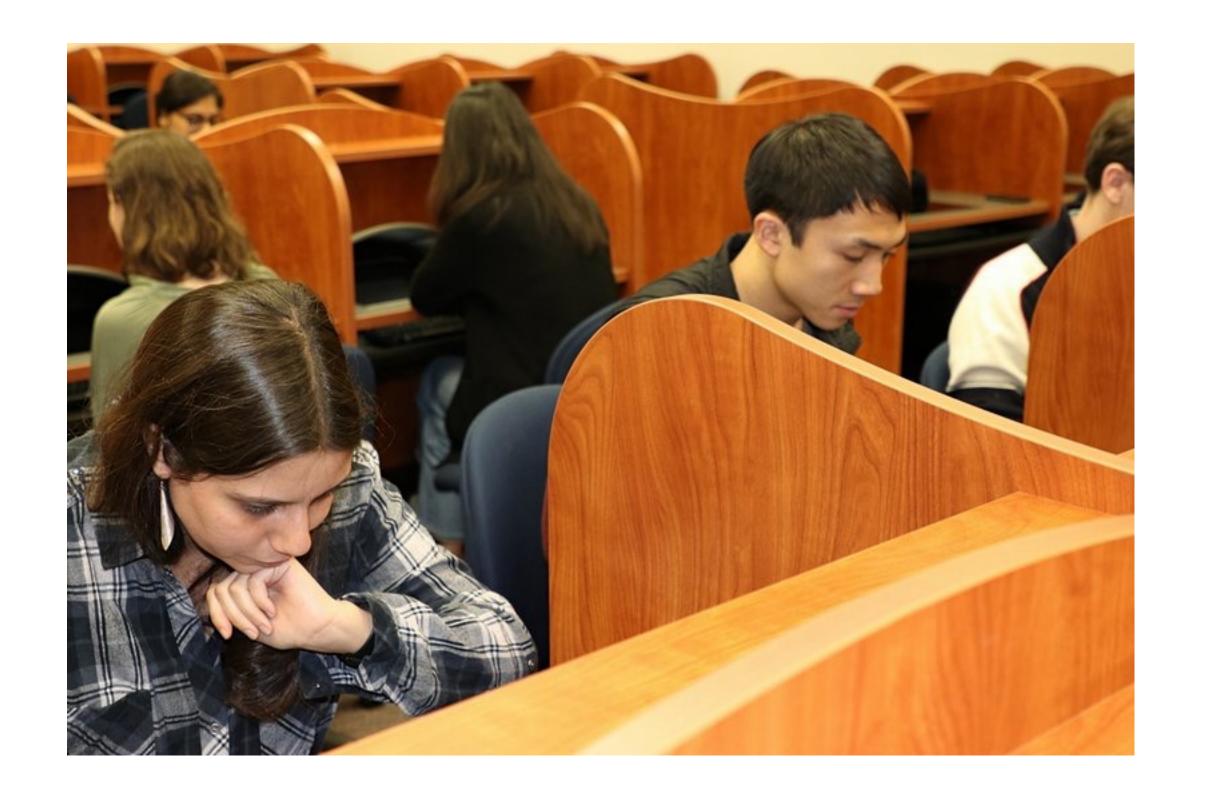
#### Overconfidence

"The over-weening conceit which the greater part of men have of their own abilities, is an ancient evil remarked by the philosophers and moralists of all ages..."

Adam Smith, The Wealth of Nations

#### Overconfidence in the lab

- o IQ tests
- Student volunteers



# Real world: Open questions

- Beyond experimental volunteers
- Things that matter
- Experience and feedback:
  - Does overconfidence persist?
  - o If so, how come we don't learn?



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- Beyond experimental volunteers
- Things that matter
- Experience and feedback:
  - Does overconfidence persist?
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Source: xkcd.com

# We study

Chain of food and drink stores



- Store managers
- Overconfidence about job performance
  - Central do daily life
  - Lots of experience
  - Lots of feedback

# Manager performance

- Bonus: quarterly competition
- Managers are ranked
- Ranking is public in the firm
- Feedback: nearly weekly



# Average manager

#### 240 in total

- 2.5 years with the firm:
  - <sub>o</sub> 10 quarterly competitions
  - <sub>o</sub> 125 weeks of feedback



#### Question 1

#### Are managers realistic about performance?

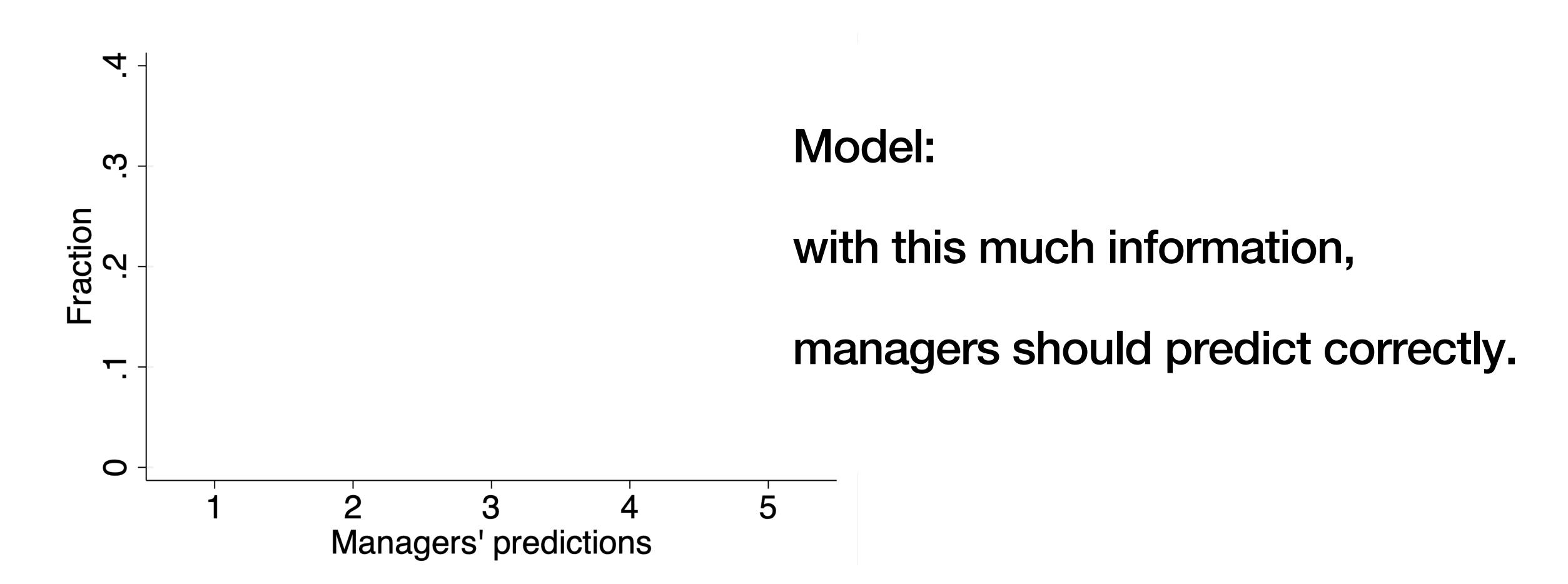
We asked managers to predict their rank

- end of the quarter (Q4 2015)
- o quintile (top 20%, next 20%...)
- o later, compare to actual
- paid them for getting it right
- results confidential



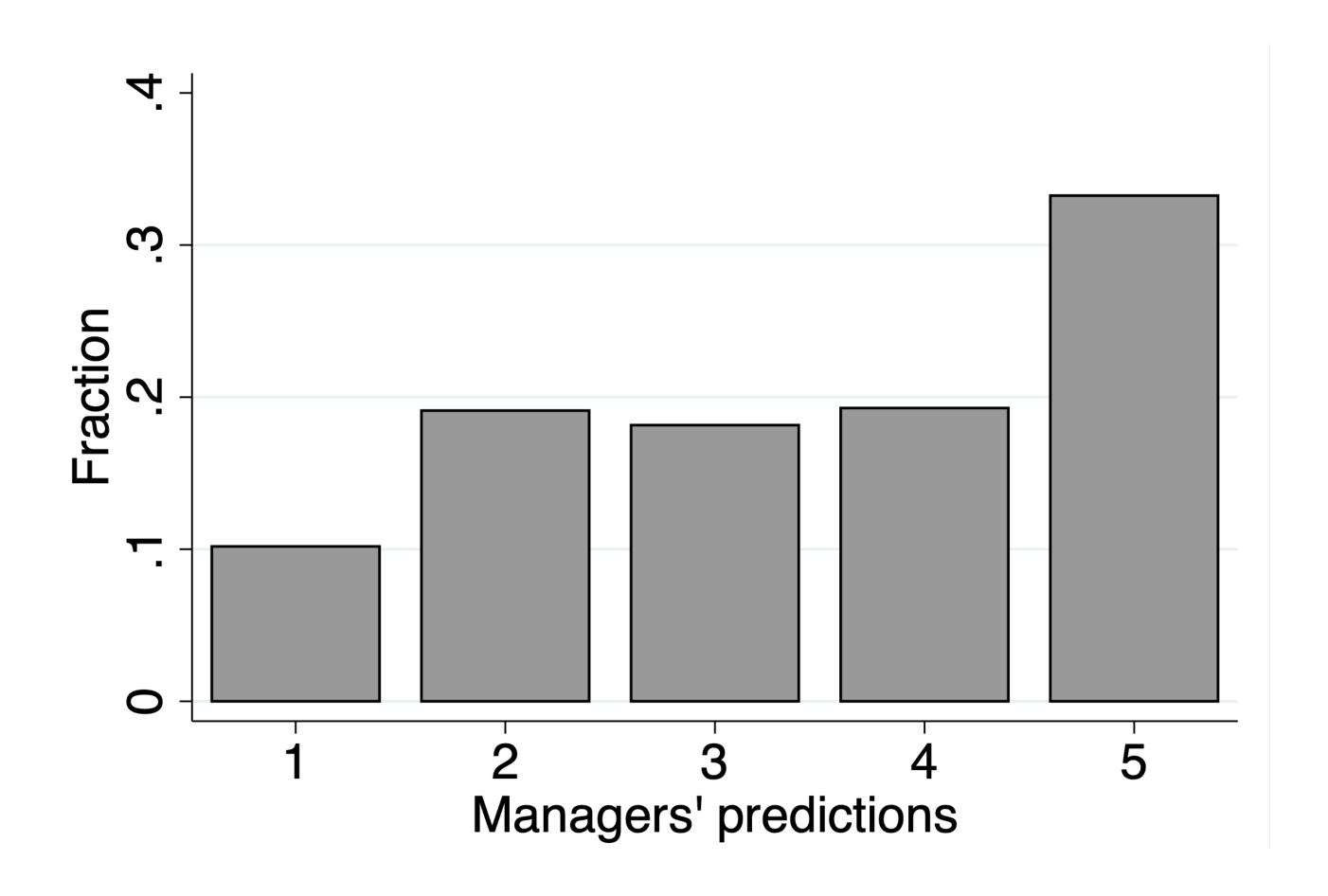
# Manager predictions

(5 = best quintile)



# Manager predictions

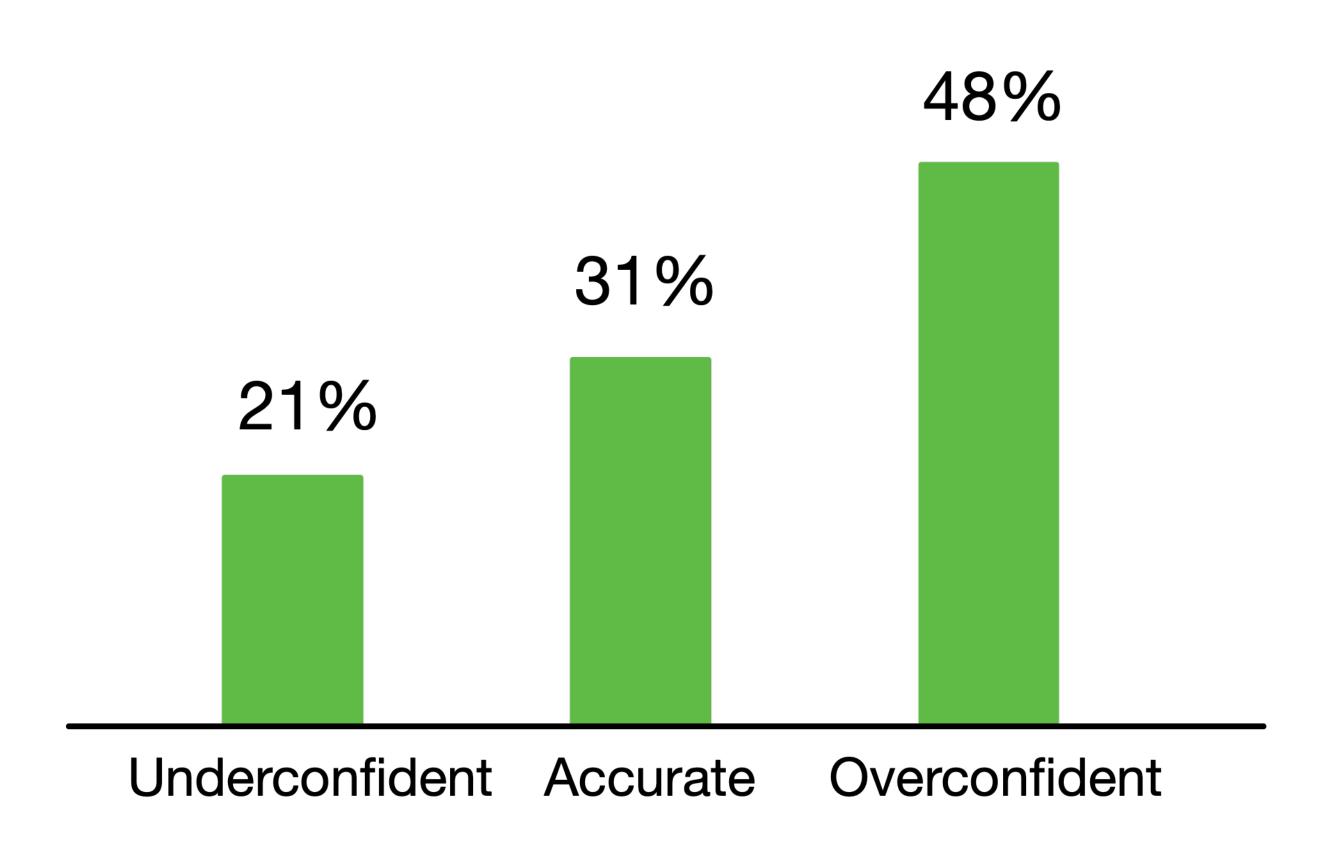
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# Compare predications to actual

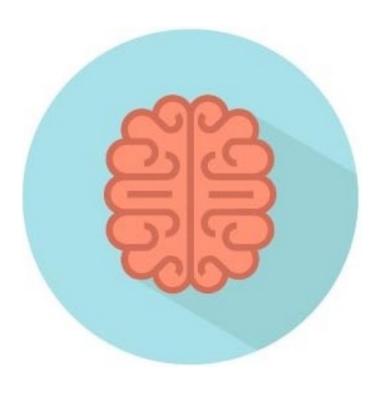
Underconfident Accurate Overconfident

# Compare predications to actual



### Question 2

What mechanism allows overconfidence bias to persist in the face of facts?



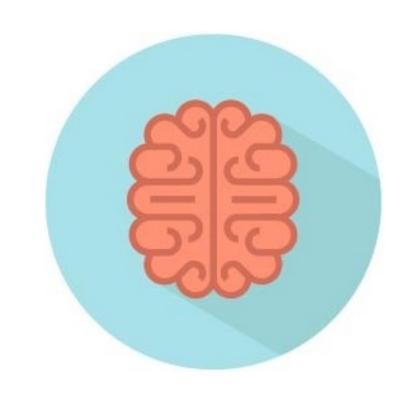
#### Question 2

# What mechanism allows overconfidence bias to persist in the face of facts?

Possible answer:

Selective memory (a.k.a Reality denial)

(Benabou 2015, Epley and Gilovich 2016, Benabou and Tirole 2016)

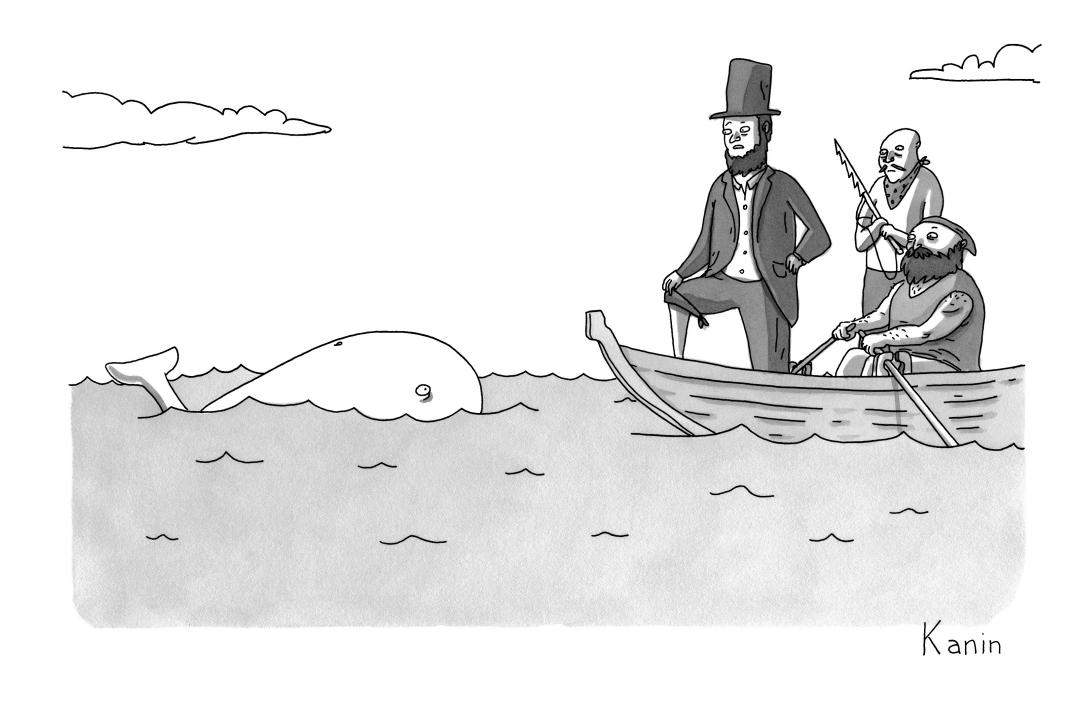




# We asked managers to *recall* their rank in the previous quarter



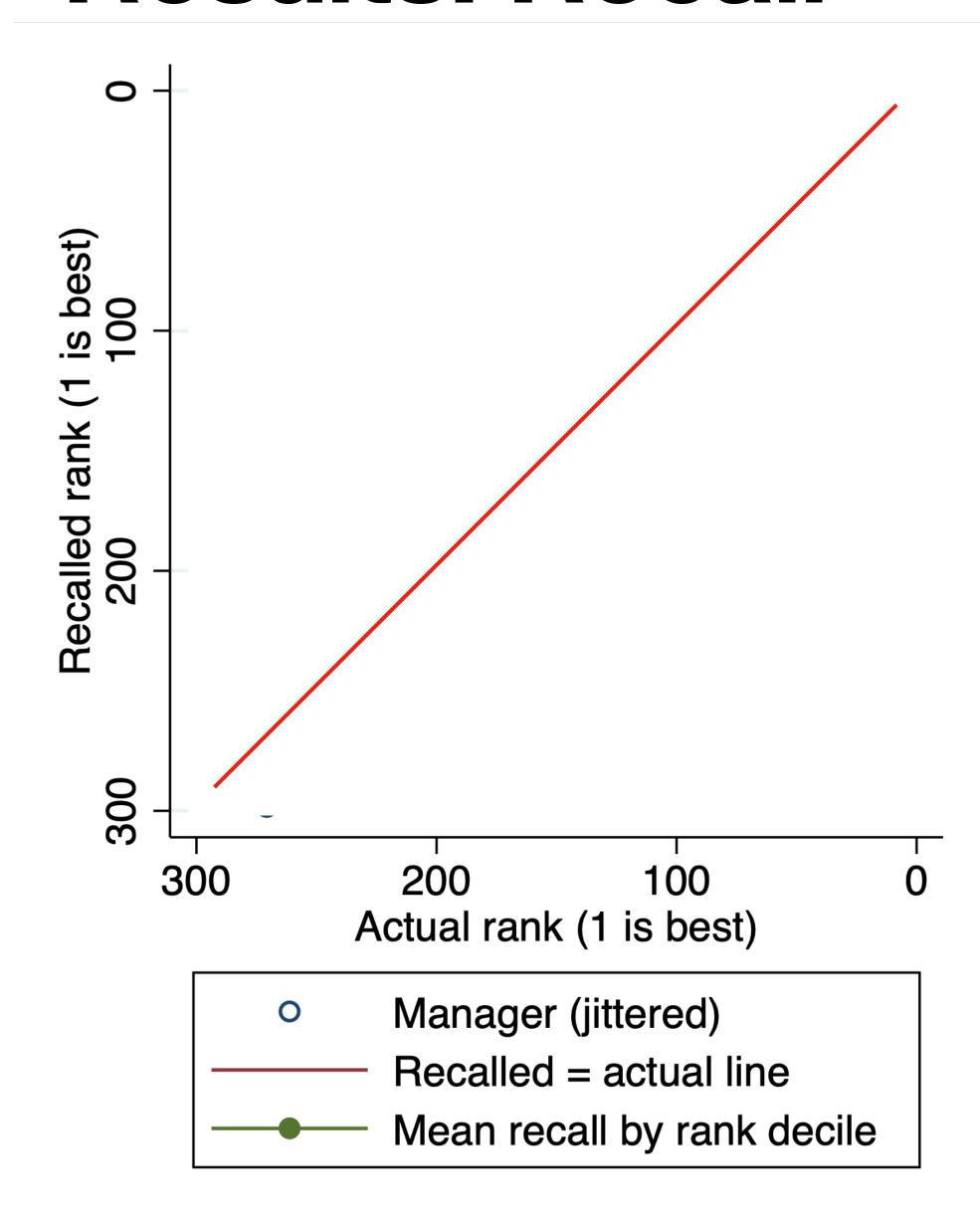
#### Results: Recall



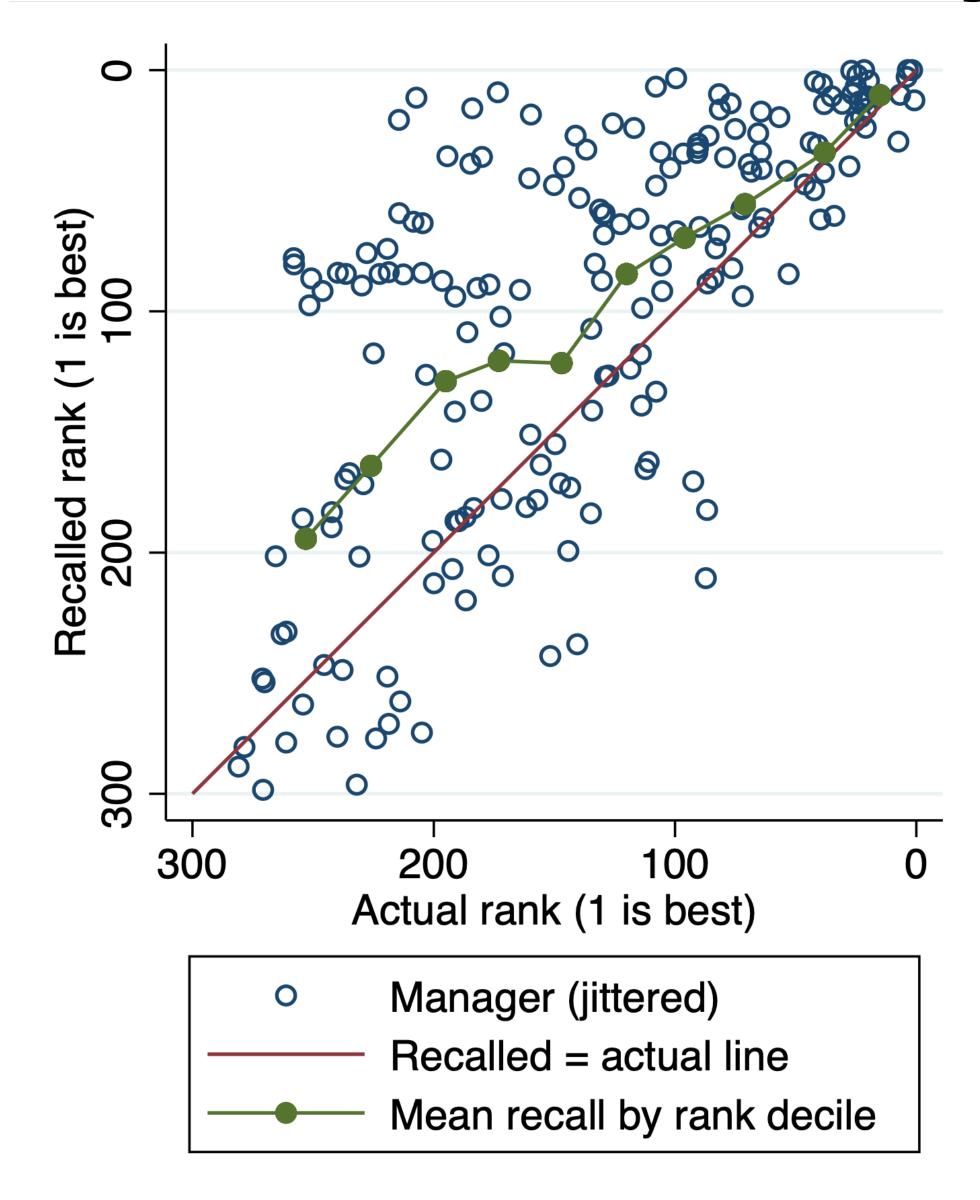
"Huh. In my memory he was a lot bigger."

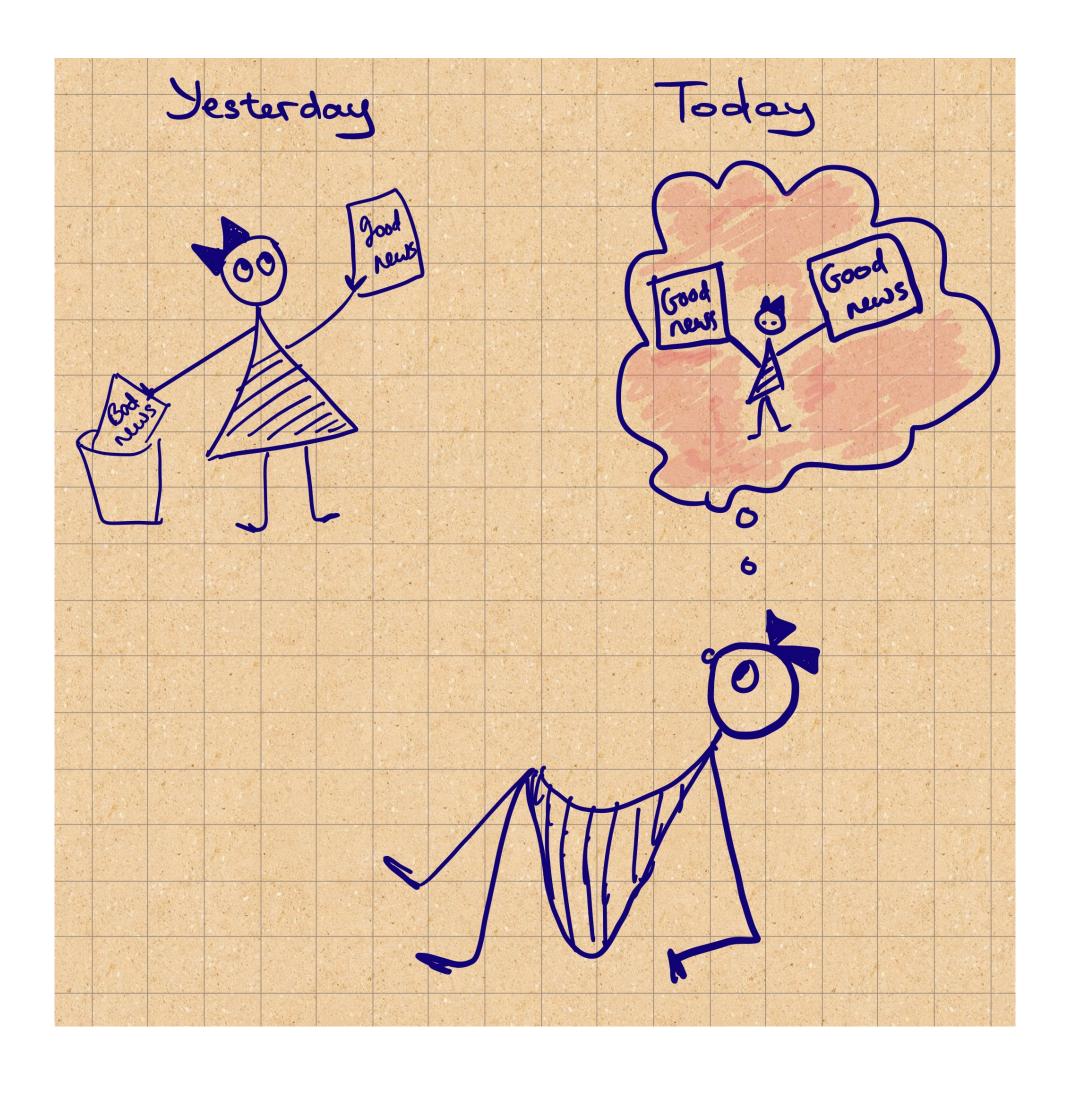
Source: The New Yorker

#### Results: Recall



# Selective memory





#### Our results so far

As a group, managers are:

- 1. Overconfident
- 2. Have selective, flattering memories

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#### The final step:

1 and 2 are linked at individual level

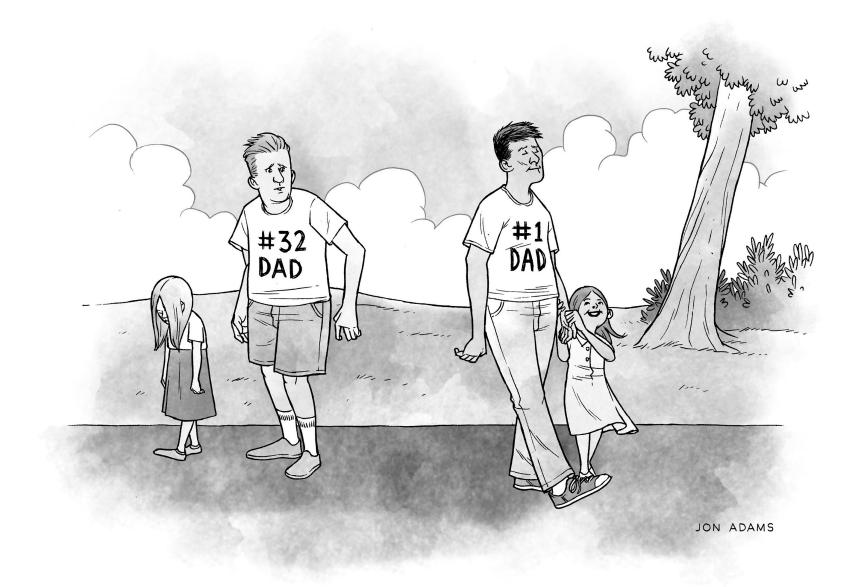


# Summary

- 1. One of first pieces of systematic evidence for overconfidence in the workplace
- 2. Overconfidence persists despite information
- 3. Selective memory helps maintain overconfidence

# Implications

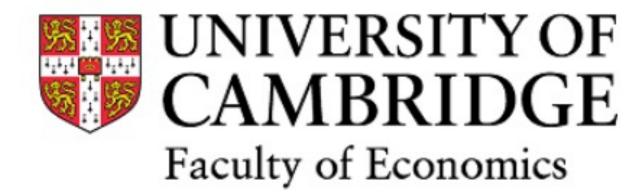
- Feedback role
- Rank matters
   (Raymond & Shvets, 2020)
- Benefit' of overconfidence



Source: The New Yorker

# More implications

- Economists should continue to take psychology seriously
- Collaboration between firms and academics can bring big insights



# Thank you

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