Andreas Krause



# Proprietary trading

- O Investment banks generate substantial profits by trading on their own account:
- 2 Investment banks use their capital base and informational advantage to make profits from trading in financial markets
- D> Investment banks trade in stock markets; bond markets, commodities, foreign
  - exchange markets, derivatives markets, cryptoassets

#### Investment banks generate substantial profits by trading on their own account

- Investment banks use their capital base and informational advantage to make profits from trading in financial markets
- Investment banks trade in stock markets bond markets commodifies foreign

- Investment banks generate substantial profits by trading on their own account
  Investment banks use their capital base and informational advantage to make profits from trading in financial markets
  - Investment banks trade in stock markets

- Investment banks generate substantial profits by trading on their own account
- Investment banks use their capital base and informational advantage to make profits from trading in financial markets
- Investment banks trade in stock markets, bond markets, commodities, foreign exchange markets, derivatives markets, cryptoassets

- Investment banks generate substantial profits by trading on their own account
- Investment banks use their capital base and informational advantage to make profits from trading in financial markets
- Investment banks trade in stock markets, bond markets, commodities, foreign exchange markets, derivatives markets, cryptoassets

- Investment banks generate substantial profits by trading on their own account
- Investment banks use their capital base and informational advantage to make profits from trading in financial markets
- Investment banks trade in stock markets, bond markets, commodities, foreign exchange markets, derivatives markets, cryptoassets

- Investment banks generate substantial profits by trading on their own account
- Investment banks use their capital base and informational advantage to make profits from trading in financial markets
- Investment banks trade in stock markets, bond markets, commodities, foreign exchange markets, derivatives markets, cryptoassets

- Investment banks generate substantial profits by trading on their own account
- Investment banks use their capital base and informational advantage to make profits from trading in financial markets
- Investment banks trade in stock markets, bond markets, commodities, foreign exchange markets, derivatives markets, cryptoassets

- Investment banks generate substantial profits by trading on their own account
- Investment banks use their capital base and informational advantage to make profits from trading in financial markets
- Investment banks trade in stock markets, bond markets, commodities, foreign exchange markets, derivatives markets, cryptoassets

- Investment banks generate substantial profits by trading on their own account
- Investment banks use their capital base and informational advantage to make profits from trading in financial markets
- Investment banks trade in stock markets, bond markets, commodities, foreign exchange markets, derivatives markets, cryptoassets

- Concerns about proprietary trading arise from investment banks using information before revealing it to clients
- Investment banks could provide advice that allows their traders to generate profits.
- Investment banks can take considerable risks when holding large positions
- Investment banks themselves are exposed to risks arising from the behaviour of
- traders
- We will look at incentives investment back and traders seeking to maximize their own profits

- Concerns about proprietary trading arise from investment banks using information before revealing it to clients
- Investment banks could provide advice that allows their traders to generate profits
- Investment banks can take considerable risks when holding large positions
- Investment banks themselves are exposed to risks arising from the behaviour of traders
- We will look at incentives investment banks and traders seeking to maximize their own profits

- Concerns about proprietary trading arise from investment banks using information before revealing it to clients
- Investment banks could provide advice that allows their traders to generate profits
- Investment banks can take considerable risks when holding large positions
- Investment banks themselves are exposed to risks arising from the behaviour of traders
- We will look at incentives investment banks and traders seeking to maximize their own profits

- Concerns about proprietary trading arise from investment banks using information before revealing it to clients
- Investment banks could provide advice that allows their traders to generate profits
- Investment banks can take considerable risks when holding large positions
- Investment banks themselves are exposed to risks arising from the behaviour of traders
- We will look at incentives investment banks and traders seeking to maximize their own profits

Concerns about proprietary trading arise from investment banks using information before revealing it to clients

Investment banks could provide advice that allows their traders to generate profits

Investment banks can take considerable risks when holding large positions

Investment banks themselves are exposed to risks arising from the behaviour of traders

We will look at incentives investment banks and traders seeking to maximize their own profits

- Concerns about proprietary trading arise from investment banks using information before revealing it to clients
- Investment banks could provide advice that allows their traders to generate profits
- Investment banks can take considerable risks when holding large positions
- Investment banks themselves are exposed to risks arising from the behaviour of traders
- We will look at incentives investment banks and traders seeking to maximize their own profits

- Concerns about proprietary trading arise from investment banks using information before revealing it to clients
- Investment banks could provide advice that allows their traders to generate profits
- Investment banks can take considerable risks when holding large positions
- Investment banks themselves are exposed to risks arising from the behaviour of traders
- We will look at incentives investment banks and traders seeking to maximize their own profits

# Gaining knowledge

- In order to generate profits from trading, traders need to be informed.
- C The costs of acquiring and processing information has to be balanced against its benefits of generating profits
- and a set investigate how much investment banks should invest into acquiring .
  - expertise

# Gaining knowledge

#### In order to generate profits from trading, traders need to be informed

- The costs of acquiring and processing information has to be balanced against its benefits of generating profits
- We will investigate how much investment banks should invest into acquiring expertise

- In order to generate profits from trading, traders need to be informed
- The costs of acquiring and processing information has to be balanced against its benefits of generating profits
- We will investigate how much investment banks should invest into acquiring expertise

- In order to generate profits from trading, traders need to be informed
- The costs of acquiring and processing information has to be balanced against its benefits of generating profits
- We will investigate how much investment banks should invest into acquiring expertise

- In order to generate profits from trading, traders need to be informed
- The costs of acquiring and processing information has to be balanced against its benefits of generating profits
- We will investigate how much investment banks should invest into acquiring expertise



- Investment banks over-invest in expertise as an arms race against other investment banks
- Caracterization of the second sec second sec
- If having no expertise would generate higher profits to all investment banks, why do they invest into expertise?
  - but one investment bank acquiring expertise will increase that investment banks do not acquire expertise, but one investment bank acquiring expertise will increase that investment bank's profits and reduces the profits of other investment banks, leading to the arms race

#### Investment banks over-invest in expertise as an arms race against other investment banks

- Despite investing more into their expertise, traders do not generate additional profits
- ? If having no expertise would generate higher profits to all investment banks, why do they invest into expertise?

Higher profits are only generated if all investment banks do not acquire expertise, but one investment bank acquiring expertise will increase that investment bank's profits and reduces the profits of other investment banks, leading to the arms race.

- Investment banks over-invest in expertise as an arms race against other investment banks
- Despite investing more into their expertise, traders do not generate additional profits
- ? If having no expertise would generate higher profits to all investment banks, why do they invest into expertise?
  - Higher profits are only generated if all investment banks do not acquire expertise, but one investment bank acquiring expertise will increase that investment bank's profits and reduces the profits of other investment banks, leading to the arms race.

- Investment banks over-invest in expertise as an arms race against other investment banks
- Despite investing more into their expertise, traders do not generate additional profits
- ? If having no expertise would generate higher profits to all investment banks, why do they invest into expertise?

- Investment banks over-invest in expertise as an arms race against other investment banks
- Despite investing more into their expertise, traders do not generate additional profits
- ? If having no expertise would generate higher profits to all investment banks, why do they invest into expertise?

- Investment banks over-invest in expertise as an arms race against other investment banks
- Despite investing more into their expertise, traders do not generate additional profits
- ? If having no expertise would generate higher profits to all investment banks, why do they invest into expertise?
- ! Higher profits are only generated if all investment banks do not acquire expertise, but one investment bank acquiring expertise will increase that investment bank's profits and reduces the profits of other investment banks, leading to the arms race

- Investment banks over-invest in expertise as an arms race against other investment banks
- Despite investing more into their expertise, traders do not generate additional profits
- ? If having no expertise would generate higher profits to all investment banks, why do they invest into expertise?
- ! Higher profits are only generated if all investment banks do not acquire expertise, but one investment bank acquiring expertise will increase that investment bank's profits and reduces the profits of other investment banks, leading to the arms race

- Traders are commonly paid bonuses based on their performance
- > High remuneration of traders might make proprietary trading unprofitable .
- We will investigate under which conditions proprietary trading is conducted and
  - bonus payments are optimal

Traders are commonly paid bonuses based on their performance

We will investigate under which conditions proprietary trading is conducted and bond proprietary trading is conducted and bond payments are optimal.

Traders are commonly paid bonuses based on their performance

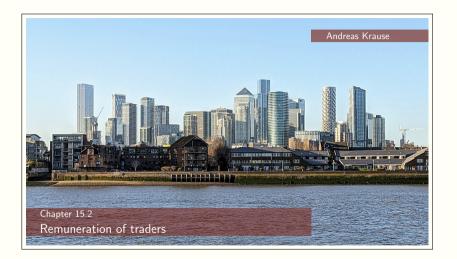
We will investigate under which conditions proprietary trading is conducted an bonus payments are optimal

- > Traders are commonly paid bonuses based on their performance
- ▶ High remuneration of traders might make proprietary trading unprofitable
- We will investigate under which conditions proprietary trading is conducted and bonus payments are optimal

- > Traders are commonly paid bonuses based on their performance
- High remuneration of traders might make proprietary trading unprofitable
- We will investigate under which conditions proprietary trading is conducted and bonus payments are optimal

## Bonus culture in trading

- Traders are commonly paid bonuses based on their performance
- High remuneration of traders might make proprietary trading unprofitable
- We will investigate under which conditions proprietary trading is conducted and bonus payments are optimal



- Proprietary trading is profitable if the informational advantage of investment banks is large enough to generate profits
- Or prevent banks use bonus payments as a tool to prevent low-quality traders from seeking employment:
- Why would investment banks engage in proprietary trading where adverse selection is low?
- Investment banks might have strategic reasons to retain presence in a market,
  - such as attracting clients or showing their expertise

- Proprietary trading is profitable if the informational advantage of investment banks is large enough to generate profits
- Investment banks use bonus payments as a tool to prevent low-quality traders from seeking employment
- ? Why would investment banks engage in proprietary trading where adverse selection is low?
- such as attracting clients or showing their expertise

- Proprietary trading is profitable if the informational advantage of investment banks is large enough to generate profits
- Investment banks use bonus payments as a tool to prevent low-quality traders from seeking employment
- ? Why would investment banks engage in proprietary trading where adverse selection is low?
- such as attracting clients or showing their expertise

- Proprietary trading is profitable if the informational advantage of investment banks is large enough to generate profits
- Investment banks use bonus payments as a tool to prevent low-quality traders from seeking employment
- ? Why would investment banks engage in proprietary trading where adverse selection is low?

- Proprietary trading is profitable if the informational advantage of investment banks is large enough to generate profits
- Investment banks use bonus payments as a tool to prevent low-quality traders from seeking employment
- ? Why would investment banks engage in proprietary trading where adverse selection is low?

- Proprietary trading is profitable if the informational advantage of investment banks is large enough to generate profits
- Investment banks use bonus payments as a tool to prevent low-quality traders from seeking employment
- ? Why would investment banks engage in proprietary trading where adverse selection is low?
- ! Investment banks might have strategic reasons to retain presence in a market, such as attracting clients or showing their expertise

- Proprietary trading is profitable if the informational advantage of investment banks is large enough to generate profits
- Investment banks use bonus payments as a tool to prevent low-quality traders from seeking employment
- ? Why would investment banks engage in proprietary trading where adverse selection is low?
- ! Investment banks might have strategic reasons to retain presence in a market, such as attracting clients or showing their expertise

- There have been many cases where traders have claims to have generated profits, but actually hidden isses
- Supervision and control systems around proprietary trading are traditionally very slack
- We will look at the incentives of traders to exaggerate their profits and their
  - supervisors to not thoroughly investigate their claims of making prolits.

- There have been many cases where traders have claims to have generated profits, but actually hidden losses
- Supervision and control systems around proprietary trading are traditionally very slack
- We will look at the incentives of traders to exaggerate their profits and their support of the second se

- There have been many cases where traders have claims to have generated profits, but actually hidden losses
- Supervision and control systems around proprietary trading are traditionally very slack
- We will look at the incentives of traders to exaggerate their profits and the second secon

- There have been many cases where traders have claims to have generated profits, but actually hidden losses
- Supervision and control systems around proprietary trading are traditionally very slack
- We will look at the incentives of traders to exaggerate their profits and their supervisors to not thoroughly investigate their claims of making profits

- There have been many cases where traders have claims to have generated profits, but actually hidden losses
- Supervision and control systems around proprietary trading are traditionally very slack
- We will look at the incentives of traders to exaggerate their profits and their supervisors to not thoroughly investigate their claims of making profits

- There have been many cases where traders have claims to have generated profits, but actually hidden losses
- Supervision and control systems around proprietary trading are traditionally very slack
- We will look at the incentives of traders to exaggerate their profits and their supervisors to not thoroughly investigate their claims of making profits



- Traders weigh the benefits of misrepresenting their profiles weight the costs of being detected
- Their supervisors have few incentives to report such behaviour as they benefit from the reported profits
  - 3 Is misrepresenting their profits the only way traders can improve their remuneration?
  - Traders can also make additional profits by engaging in larger positions than allowed, trading in securities they are not authorised to trade, or keep positions open for longer than they are allowed, for example over night

Traders weigh the benefits of misrepresenting their profits against the costs of being detected

Their supervisors have few incentives to report such behaviour as they benefit from the reported profile

3 Is misrepresenting their profits the only way traders can improve their remuneration?

Traders can also make additional profits by engaging in larger positions than allowed, trading in securities they are not authorised to trade, or keep positions, open for longer than they are allowed, for example over night.

- Traders weigh the benefits of misrepresenting their profits against the costs of being detected
- Their supervisors have few incentives to report such behaviour as they benefit from the reported profits
  - 3 Is misrepresenting their profits the only way traders can improve their remuneration?
  - Traders can also make additional profits by engaging in larger positions than allowed, trading in securities they are not authorised to trade, or keep positions open for longer than they are allowed, for example over night

- Traders weigh the benefits of misrepresenting their profits against the costs of being detected
- Their supervisors have few incentives to report such behaviour as they benefit from the reported profits

Traders can also make additional profits by engaging in larger positions than allowed, trading in securities they are not authorised to trade, or keep positions open for longer than they are allowed, for example over night

- Traders weigh the benefits of misrepresenting their profits against the costs of being detected
- Their supervisors have few incentives to report such behaviour as they benefit from the reported profits
- ? Is misrepresenting their profits the only way traders can improve their remuneration?

- Traders weigh the benefits of misrepresenting their profits against the costs of being detected
- Their supervisors have few incentives to report such behaviour as they benefit from the reported profits
- ? Is misrepresenting their profits the only way traders can improve their remuneration?

- Traders weigh the benefits of misrepresenting their profits against the costs of being detected
- Their supervisors have few incentives to report such behaviour as they benefit from the reported profits
- ? Is misrepresenting their profits the only way traders can improve their remuneration?
- ! Traders can also make additional profits by engaging in larger positions than allowed, trading in securities they are not authorised to trade, or keep positions open for longer than they are allowed, for example over night

- Traders weigh the benefits of misrepresenting their profits against the costs of being detected
- Their supervisors have few incentives to report such behaviour as they benefit from the reported profits
- ? Is misrepresenting their profits the only way traders can improve their remuneration?
- ! Traders can also make additional profits by engaging in larger positions than allowed, trading in securities they are not authorised to trade, or keep positions open for longer than they are allowed, for example over night

- Investment banks will engage in proprietary trading only if the possible informational advantage is sufficiently high
- Traders in investment banks overinvest into their expertise.
- Will remunerate traders through bonuses
- This reliance on bonuses provides strong incentives for traders to exaggerate
  - profits and the incentives for monitoring are weak

- Investment banks will engage in proprietary trading only if the possible informational advantage is sufficiently high
- Traders in investment banks overinvest into their expertise
- Unless investment banks can identify the quality of their traders precisely, they will remunerate traders through bonuses
- This reliance on bonuses provides strong incentives for traders to exaggerate profits and the mean of the mean and the mean of the mean

- Investment banks will engage in proprietary trading only if the possible informational advantage is sufficiently high
- Traders in investment banks overinvest into their expertise
- Unless investment banks can identify the quality of their traders precisely, they will remunerate traders through bonuses
- This reliance on bonuses provides strong incentives for traders to exaggerate profits and the incentive for monitoring are used.

- Investment banks will engage in proprietary trading only if the possible informational advantage is sufficiently high
- Traders in investment banks overinvest into their expertise
- Unless investment banks can identify the quality of their traders precisely, they will remunerate traders through bonuses
- This reliance on bonuses provides strong incentives for traders to exaggerate profits and the mean and the

- Investment banks will engage in proprietary trading only if the possible informational advantage is sufficiently high
- Traders in investment banks overinvest into their expertise
- Unless investment banks can identify the quality of their traders precisely, they will remunerate traders through bonuses
- This reliance on bonuses provides strong incentives for traders to exaggerate profits and the incentives for monitoring are weak

- Investment banks will engage in proprietary trading only if the possible informational advantage is sufficiently high
- Traders in investment banks overinvest into their expertise
- Unless investment banks can identify the quality of their traders precisely, they will remunerate traders through bonuses
- This reliance on bonuses provides strong incentives for traders to exaggerate profits and the incentives for monitoring are weak

- Investment banks will engage in proprietary trading only if the possible informational advantage is sufficiently high
- Traders in investment banks overinvest into their expertise
- Unless investment banks can identify the quality of their traders precisely, they will remunerate traders through bonuses
- This reliance on bonuses provides strong incentives for traders to exaggerate profits and the incentives for monitoring are weak



#### Copyright (2) by Andreas Krause

Picture credits:

Cover: The wish, CC BY-SA 4.0 https://creativecommons.org/licenses/by-sa/4.0, via Wikimedia Commons, https://commons.wikimedia.org/wiki/File/Canary.Wharf.Jrom.Greenwich.jriverside\_2022-03-18.jpg Back: Seb Tyler, CC BY 3.0 https://creativecommons.org/licenses/by/3.0, via Wikimedia Commons, https://commons.wikimedia.org/wiki/File/Canary.Wharf.Panorama.Might.jpg

Andreas Krause Department of Economics University of Bath Claverton Down Bath BA2 7AY United Kingdom

E-mail: mnsak@bath.ac.uk