

# Financial Stability Implications of Generative AI: Taming the Animal Spirits

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The views expressed are mine and do not necessarily reflect those of the Federal Reserve Bank of Dallas, or the Federal Reserve System.

# Summary of Paper

- Increasing usage of Generative AI in asset management (Sheng et al. RFS forthcoming).
- Widely shared concern:
  - Gen AI  $\Rightarrow$  Herding  $\Rightarrow$  Financial Instability
- The authors carefully layout the hypotheses:
  - Ambiguous signs for (Gen AI  $\Rightarrow$  Herding) and ( $\Rightarrow$  Instability), e.g.
    - AI are computer programs and might display less human bias.
    - AI might reflect human bias because they are trained on human data (Stochastic parrots)
- Present experimental evidence: in general, AI agents less likely to herd than human.

## General Feedback

- Important paper. Concern about herding driven by AI is real.
- Very thorough empirical analysis and careful discussion.
- Challenge (for all experimental studies): Map experiments to the real world.
- Facing gaps between experiments and the real world, researchers tend to argue for theoretical contributions, e.g. to psychology or neural science.
- Harder for this paper because it examines bias in machines instead of human.
- Pitch really matters:
  - Is financial stability the best pitch?
  - How about focus on human bias in Gen AI?

# Map experiments to the real world

- AI versus human. How about AI + human?
  - JFE 2025 best paper: Cao et al. “From Man vs. Machine to Man + Machine: The Art and AI of Stock Analyses”
- In the real world: what would be considered private information for Gen AI agents?
  - Almost all information available to AI is public
  - What would be not considered as herding?
- Human benchmark is from pre-2009, has it changed?

# Is financial stability the best or the only pitch?

- Studying financial stability does require realistic experiments.
  - Other behavioral finance experiments, e.g. on extrapolative beliefs, do not always need to be realistic.
- The authors acknowledge challenges in making financial stability statements:
  - How AI evolves over time.
  - AI adoption and how AI is used.
  - “In addition, the interaction between human and AI traders becomes crucial, as their combined behavior could either amplify or dampen market movements in unpredictable ways.”

# Findings about human bias in Gen AI is fascinating

- “They have inherited elements of human intuition and bias.”
- Traditional algorithm trading would not show any human bias.
- Can the authors study: how to remove human bias in Gen AI models?
- AI models are evolving
- Can the authors do more with how Gen AI's human bias evolves?

## ◆ AI Overview

Yes, many users report that GPT-5 feels less "human" than GPT-4o, describing it as more formal, distant, and robotic. While GPT-5 has improvements in areas like reasoning and accuracy, the perceived loss of emotional warmth and personality has led to user disappointment and a sense that conversations are less natural and more rigid compared to GPT-4o's more "friendly" or "conversational" tone. [🔗](#)

# Is there a simple explanation for the results of less herding?

- Instead of AI reasoning through the logic and choose to not herd, could it be that AI is explicitly instructed to not herd?
- AI domain knowledge is trained by professionals in the field

## OpenAI Looks to Replace the Drudgery of Junior Bankers' Workload



- Data providers for AI firms: ScaleAI, Surge, Mercor, Turing, etc.

# Conclusion

- My takeaway: despite rising concerns that AI will lead to more herding, it is not true in experiments.
- Empirical analysis is very thorough.
- Positioning of the paper matters:
  - Financial stability?
  - Human bias in machines?