

BMF CP44: Information priorities for investment decision-making and fear during the crisis

AISDL Team

August 8, 2023

1. Project description

1.1. Main objectives

The current study is conducted to examine how investors' information priorities for investment decision-making influence their fear during the crisis.

1.2. Materials

The mindsponge theory will be used for conceptual development, and Bayesian Mindsponge Framework (BMF) analytics will be used for statistical analysis on a dataset of 1526 Chinese and Vietnamese investors [1-4]. The bayesvl R package, aided by the Markov chain Monte Carlo (MCMC) algorithm, will be employed for statistical analyses [5-8]. For more information on BMF analytics, portal users can refer to the following book [9]. Data and code snippets of this initial analysis were deposited at: <https://osf.io/t8xw9/>.

1.3. Main findings

The analysis shows that different information priorities for investment decision-making have different impacts on investors' fear responses during the financial crisis. For example, if the investors based on the company's performance to make their investment decision, they were less likely to become freeze when the crisis happens. Meanwhile, if the investment decision was based on social influence, they were more likely to become freeze when the

crisis occurred.

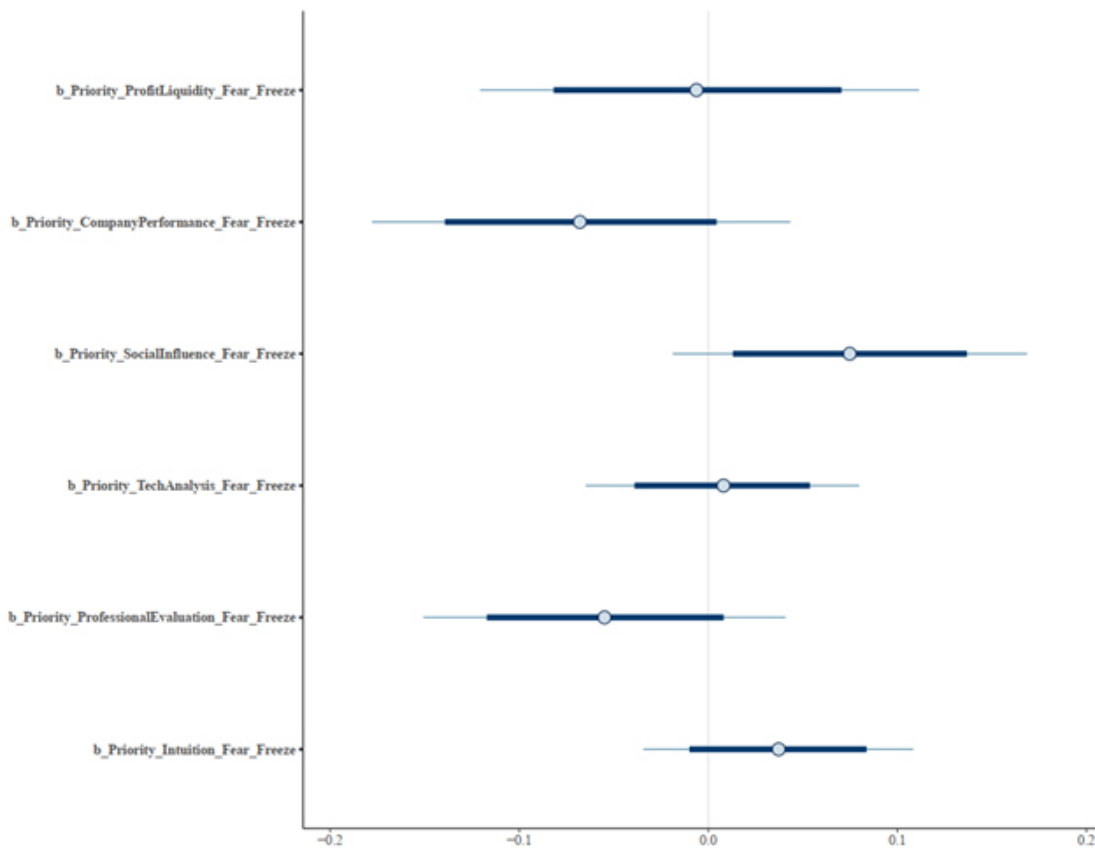


Figure 1. Estimated coefficients

2. Collaboration procedure

Portal users should follow these steps for registering to participate in this research project:

1. Create an account on the website (preferably using an institution's email).
2. Comment your name, affiliation, and your desired role in the project below this post.
3. Patiently wait for the formal agreement on the project from the AISDL mentor.

If you have further inquiries, please contact us at aisdl_team@mindsponge.info.

If you have been invited to join the project by an AISDL member, you are still encouraged to follow the above formal steps.

All the resources for conducting and writing the research manuscript will be distributed upon project participation.

AISDL mentor for this project: **Minh-Hoang Nguyen**.

AISDL members who have joined this project: Quan-Hoang Vuong, Tam-Tri Le.

The research project strictly adheres to scientific integrity standards, including authorship rights and obligations [10], without incurring an economic burden at participants' expenses [11].

References

[1] Nguyen MH, La VP, Le TT, Vuong QH. (2022). [Introduction to Bayesian Mindsponge Framework analytics: An innovative method for social and psychological research](#). *MethodsX*, 9, 101808.

[2] Vuong QH. (2023). [Mindsponge Theory](#). De Gruyter.

[3] Vuong QH, Napier NK. (2015). [Acculturation and global mindsponge: An emerging market perspective](#). *International Journal of Intercultural Relations*, 49, 354-367.

[4] Jin R, et al. (2023). [A dataset of Chinese drivers' driving behaviors and socio-cultural factors related to driving](#). *Data in Brief*, 49, 109337.

[5] Van Huu N, Hoang VQ, Ngoc TM. (2005). [Central Limit Theorem for Functional of Jump Markov Processes](#). *Vietnam Journal of Mathematics*, 33(4), 443-461.

[6] Thao HT, Vuong QH. (2015). [A Merton model of credit risk with jumps](#). *Journal Statistics Applications & Probability Letters*, 2(2), 97-103.

[7] Van Huu N, Hoang VQ. (2007). [On the martingale representation theorem and on approximate hedging a contingent claim in the minimum deviation square criterion](#). In R Jeltsch, TT Li, IH Sloan (Eds). *Some Topics in Industrial and Applied Mathematics* (pp. 134-151). Singapore: World Scientific.

[8] La VP, Vuong QH. (2019). [bayesvl: Visually Learning the Graphical Structure of Bayesian Networks and Performing MCMC with 'Stan'](#). The Comprehensive R Archive Network.

[9] Vuong QH, Nguyen MH, La VP. (2022). [The mindsponge and BMF analytics for innovative thinking in social sciences and humanities](#). De Gruyter.

[10] Vuong QH. (2018). [The \(ir\)rational consideration of the cost of science in transition economies](#). *Nature Human Behaviour*, 2, 5.

[11] Vuong QH. (2020). [Reform retractions to make them more transparent](#). *Nature*, 582, 149.



©2023 AISDL - Science Portal for the [SM3D Knowledge Management Theory](#)