

# **BMF CP72: The effectiveness of knowledge management systems in motivation and satisfaction in Vietnamese higher education institutions**

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“Today, Kingfisher the Wise teaches the most important lesson: “Wisdom in fishing”.”

—In “The Weirdest Fishhook”; [The Kingfisher Story Collection](#) [1]

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## **1. Project description**

### **1.1. Main objectives**

The current study is conducted to examine the following research questions:

- Examine how knowledge acquisition and knowledge dissemination are associated with academic staff’s job satisfaction and teaching motivation
- Examine whether job satisfaction mediates the relationship between knowledge acquisition, knowledge dissemination and teaching motivation

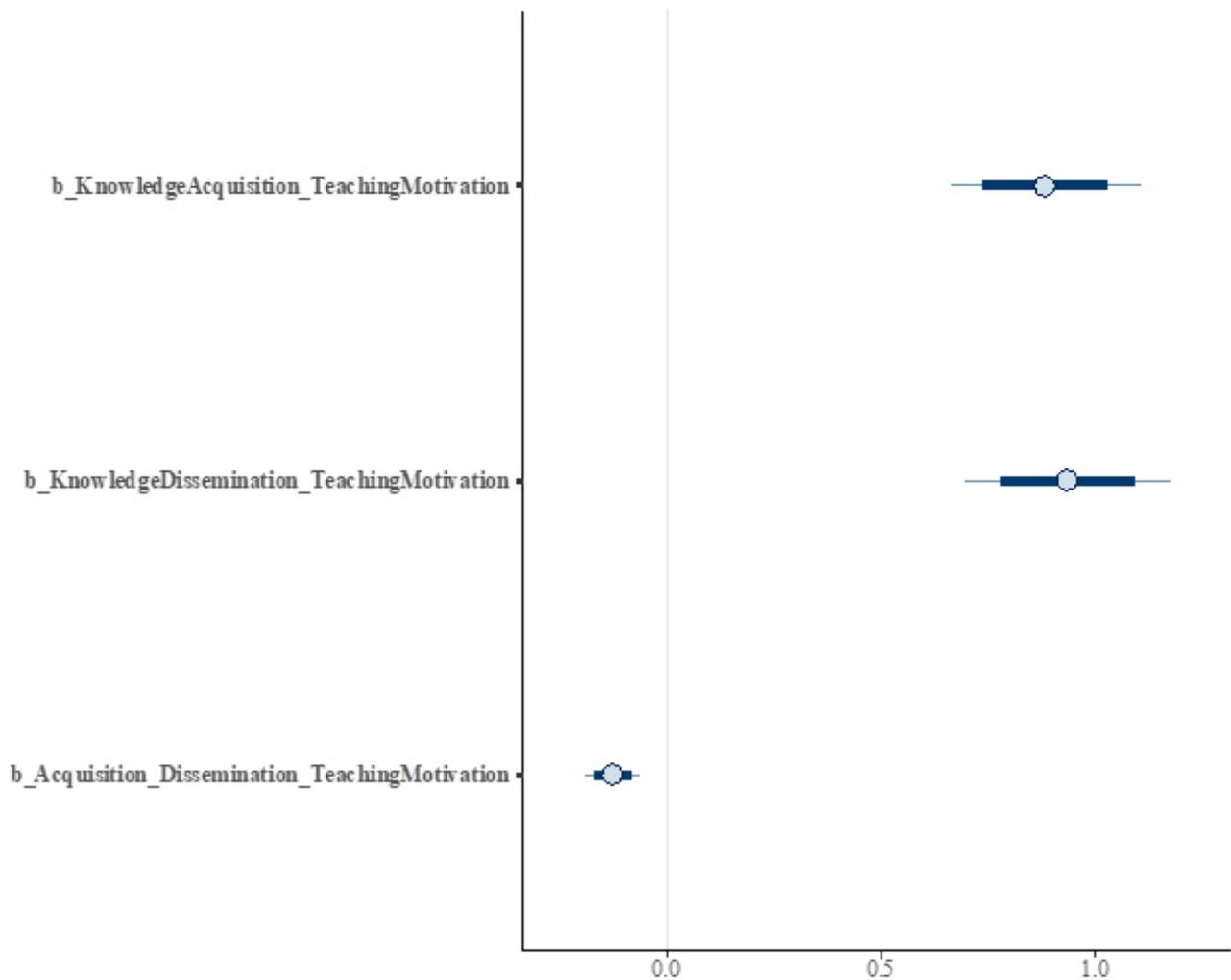
### **1.2. Materials**

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 676 academics in Vietnam [2-4]. The bayesvl package, aided by the Markov chain Monte Carlo (MCMC) algorithm, will be employed for statistical analyses [5]. For more information on BMF analytics, portal users can refer to the following book [6]. Data and code snippets of this initial analysis were deposited at: <https://zenodo.org/records/11213426>.

### 1.3. Main findings

The preliminary analysis shows that knowledge acquisition and dissemination are positively associated with academic staff's teaching motivation. However, knowledge acquisition and knowledge dissemination also negatively moderate the relationship between them and teaching motivation (see Figure 1)



**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 email).
2. Comment on your name, affiliation, and desired role in the project below this post.
3. Patiently wait for the AISDL mentor to give the formal agreement on the project.

If you have further inquiries, please get in touch with us at [aisdl\\_team@mindsponge.info](mailto: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.

Project coordinator: **Dan Li**.

The AISDL mentor for this project is **Minh-Hoang Nguyen**.

Other members who have joined this project: Quan-Hoang Vuong.

The research project strictly adheres to scientific integrity standards, including authorship rights and obligations, without incurring an economic burden at participants' expenses. Our philosophy embraces the fostering of humanistic values in conducting empirical investigations for sustainable and feasible solutions to real-world problems [7].

## References

[1] Vuong QH. (2022). *The Kingfisher Story Collection*. <https://www.amazon.com/dp/BOBG2NNHY6>

[2] 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. <https://linkinghub.elsevier.com/retrieve/pii/S2215016122001881>

[3] Vuong QH. (2023). *Mindsponge Theory*. Walter de Gruyter GmbH. <https://www.amazon.com/dp/8367405145/>

[4] Khoa BT, Huynh TT. (2023). The effectiveness of knowledge management systems in motivation and satisfaction in higher education Institutions: Data from Vietnam. *Data in Brief*, **49**, 109454. <https://www.sciencedirect.com/science/article/pii/S2352340923005541>

[5] La VP, Vuong QH. (2019). bayesvl: Visually Learning the Graphical Structure of Bayesian Networks and Performing MCMC with 'Stan'. *The Comprehensive R Archive Network*. <https://cran.r-project.org/web/packages/bayesvl/index.html>

[6] Vuong QH, Nguyen MH, La VP. (2022). *The mindsponge and BMF analytics for innovative thinking in social sciences and humanities*. Walter de Gruyter GmbH. <https://www.amazon.com/dp/8367405102/>

[7] Nguyen MH. (2024). Five principles to leverage the humanistic values for biodiversity conservation and climate change mitigation. <https://mindsponge.info/posts/307>

