Streamlining technical aspects to make research more efficient

Tam-Tri Le

*Centre for Interdisciplinary Social Research
Phenikaa University, Hanoi, Vietnam*

2022 February 3

OSF Preprints

This is something our mentor told us. My colleagues and I found the advice to be very useful during our research projects.

Not every researcher is a good statistician, but providing empirical evidence for scientific studies usually requires rigorous statistical analysis. Such a barrier can significantly slow down research progress, especially for young researchers who are quite inexperienced in statistics.

By employing an analytical software package with flexible yet clear step-by-step protocol, the tasks of technical analysis and validation become faster, and in a sense, more “foolproof” as well. So, research projects can progress relatively quickly without sacrificing rigorousness and integrity.

For example, our team uses the *bayesvl* package for Bayesian analysis [1,2].

Furthermore, with technical aspects supported by computers, researchers can spend more time and energy for deeper conceptual investigation.

References

1. La, V. P., & Vuong, Q. H. (2019). Package ‘bayesvl’: Visually Learning the Graphical Structure of Bayesian Networks and Performing MCMC with ‘Stan’. The Comprehensive R Archive Network (CRAN).
2. Vuong, Q.-H., La, V.-P., Nguyen, M.-H., Ho, M.-T., Tran, T., & Ho, M.-T. (2020). Bayesian analysis for social data: A step-by-step protocol and interpretation. *MethodsX*, 7, 100924. <https://doi.org/10.1016/j.mex.2020.100924>