

Review of: "Influence of Motivation on Pre-service Primary Teachers' Performance in Mathematics"

Ana María de Caso Fuertes¹

¹ Universidad de León

Potential competing interests: No potential competing interests to declare.

Although the interest of the topic, this study seems a systematic revision more than an empirical work. This statement is based in the following questions:

- The length of the framework is longer than the study itself.
- Also, the framework mentions too many studies which corroborate the research questions so it doesn't seem necessary the study itself.
- An empirical study should be framed in a solid motivational theory which defines the context in which the study is made. Also, the motivational determinants that are considered for the study should be mentioned and explained.
- There is a lack of description in methodology in all senses:
 - Regarding the sample there is a contradiction between the abstract ("70 primary pre-services teachers who were randomly selected") and the methodology section where it mentions that the sample was purposibly selected and it consisted in all pre-service teachers of the specific College. There are many other strange variables which may influence the results as all the sample is from one unique College.
 - The instrument isn't described at all, so we can not imagine the kind of required questions as it doesn't have any item's sample. We don't know even the number of items which includes the instrument nor the motivational determinants which the instrument considers.
 - There is a lack of explanation of the procedure of the study so that we don't know how the application of the instrument was made, if it was homogeneous, real, adequate or not.
- The data analysis aren't explained so that we don't know what data were used to get the Cronbach alpha, or even if data follows a normal distribution or not, in order to know the type of analysis author should make.
- Results aren't clear as the tables are confused so that it doesn't make sense to indicate correlation 1 between intrinsic motivation and intrinsic motivation as it is the same measure. Besides, we don't know where intrinsic motivation score comes from.
- Finally, I don't understand where recommendation section comes from, nor which part of the publication or the study support these recommendations, as there isn't any mention to stakeholders, management, Government's investigations, simulations... in the framework or methodology sections.

