

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

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Potential competing interests: No potential competing interests to declare.

As other reviewers have already noted, this work has several weak points. Its publication depends on whether the changes to be introduced by the author can be deemed sufficient by new reviewers.

I want to emphasize this point: readers know nothing about the instrument employed in this research. It is not referenced, and it is not even described which items or how many appear in the survey. The entire research is relying on a tool about which we know nothing regarding its psychometric properties. The author cannot simply accept as a fact that this instrument can measure intrinsic and extrinsic motivation with the same reliability and validity as a watch measures time.

More points, perhaps with higher detail. In the abstract: "... teachers who were randomly selected...". I strongly doubt this. Later, it's mentioned: "The sample, purposively selected...", which is not entirely accurate, but it clearly indicates that it was not a random sample. I urge the author to be more transparent. For instance, state that the "sample" consisted of students who responded to a call for volunteers (or something similar).

If you're not familiar with what a P-value is, it's best to avoid using it. It would be much better to remove all of them from the manuscript as they may be irrelevant. A P-value of 0.001 does not indicate a high correlation result; it merely suggests that it's highly unlikely that your variables are independent, which may not be pertinent to your research.

If you intend to include inferential statistics in your paper, I recommend using confidence intervals instead of P-values. However, exercise caution in your interpretation because the sample you utilized is not a random one, making it challenging to determine the extent of bias and uncertainty in your estimations.

Additionally, an important aspect is missing: you should provide more information about the students and explore the correlation between intrinsic and extrinsic motivation among them. The current presentation may give readers the impression that these motivations are independent, but I don't believe that's the case. To address this, you can provide more detailed information. If both motivations are correlated, it's possible that there is an underlying factor influencing them, which could help explain teachers' motivation. This is an avenue worth investigating further.