

# Review of: "Can ChatGPT code the technical part of a Bachelor's Thesis in Informatics?"

Rafael Mellado-Silva<sup>1</sup>

<sup>1</sup> Pontificia Universidad Católica de Valparaíso

**Potential competing interests:** No potential competing interests to declare.

## Strengths:

- The article addresses a novel and relevant research question on ChatGPT's capabilities to assist in coding undergraduate theses in informatics.
- It thoroughly describes the methodology employed in a pilot study, including data gathering through dialogue with ChatGPT and iterative evaluation of the generated code.
- It presents interesting preliminary results suggesting that ChatGPT can expedite the coding process and allow for more advanced technical analyses, although its success depends on the student's ability to critically evaluate its outputs.
- It identifies key dimensions like domain of application and user skills that require further research.

## Weaknesses:

- The scope of the pilot study is very limited (2 students, 1 case study), which makes it difficult to generalize the conclusions.
- It does not formally compare the time required using ChatGPT vs. not using it. The estimated time savings are based on students' conjectures.
- It is unclear whether the final code generated by ChatGPT was fully functional or if problems persisted.
- It could delve deeper into the ethical implications of using ChatGPT as an assistant in generating academic code.

In summary, this article provides a valuable first approach to evaluating ChatGPT's capabilities in academic coding tasks. It highlights the need for further research with larger samples, more rigorous measurements, and consideration of ethical dimensions. The preliminary conclusions are suggestive but not definitive given the exploratory nature of the study. Overall, it is a first step that lays the foundations for future work on this emerging topic.