

## Author Note (example)

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### Author roles

Author roles were classified using the Contributor Role Taxonomy (CRediT; [credit.niso.org](https://credit.niso.org)) as follows:

- *AuthorA*: conceptualization, data curation, formal analysis, investigation, methodology, software, validation, visualization, writing-original draft, and writing-review and editing.
- *AuthorB*: conceptualization, formal analysis, and investigation.
- *AuthorC*: conceptualization, formal analysis, and investigation.
- *AuthorD*: methodology, software, validation, and writing-review and editing.

### Use of Generative AI in This Assignment

This report was developed with the support of generative artificial intelligence tools. Specifically, ChatGPT (OpenAI) was used as a supplementary aid during the analytical process to clarify statistical concepts, refine R code syntax, and improve the clarity and structure of written interpretations.

The use of AI was limited to guidance, explanation, and drafting support. All analytical decisions, data processing steps, statistical tests, and interpretations were independently reviewed and adapted by the authors, who remain fully responsible for the content, accuracy, and conclusions presented in this report.

The use of generative AI was intended to enhance understanding and learning rather than to replace critical thinking or statistical reasoning.

A critical reflection on the use of generative AI highlights both benefits and limitations in this context. On the one hand, AI support facilitated faster coding, helped articulate statistical interpretations, and supported the structuring of results across multiple analytical techniques. On the other hand, some AI-generated interpretations initially relied on implicit assumptions that were not directly supported by the analyses conducted. For example, an apparent “contradiction” (see example below) between earlier group comparisons and the regression results was suggested, despite no prior analysis explicitly examining the relationship between PercentMale and UG. Identifying and correcting this required careful review and reinforced the importance of grounding interpretations strictly in the analyses performed.

These instances illustrate that while generative AI can be a valuable learning and productivity tool, its outputs must be critically evaluated rather than accepted at face value. In this assignment, meaningful learning occurred precisely through questioning, revising, and, when necessary, rejecting AI-generated suggestions. Ultimately, the effective use of generative AI depended on the author’s active engagement, statistical understanding, and responsibility for the final work.

*Examples of Significant AI Prompt–Response Interactions (for each example, briefly describe the prompt, summarize the AI response, and reflect on how it was evaluated, adapted, or corrected):*

- *Example 1*
- *Example 2*
- ...