Authors' Response to Reviews of

Evaluating the Impacts of Parameter Uncertainty in a Practical Transportation Demand Model

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RC: *Reviewers' Comment*,   AR: Authors' Response,   □ Manuscript Text

We are grateful for the reviewer's comments on this manuscript. We address each point in turn, with text added to the manuscript in blue and text deleted from the manuscript in red.

1. Reviewer #3

1.1. General Comments

RC: *The paper is well-structured and follows a logical progression from introduction to conclusion. The research addresses an important issue in transportation demand modeling—parameter uncertainty. It adds value to the field by analyzing its impacts using Latin Hypercube Sampling (LHS).*

AR: We appreciate that the reviewer found our paper well-structured and on an important issue.

RC: *However, the real-world implications of the findings could be emphasized more, particularly in the "Conclusions" section.*

AR: We address this comment further below when it arises again.

1.2. Keywords

RC: *Keywords: Having only two keywords is insufficient. Consider expanding the list to include more relevant terms to improve discoverability and accurately reflect the scope of the research.*

1.3. Travel modeling key challenges

RC: *Line 21: Before introducing the function in this line, provide a more comprehensive overview of the current state of transportation demand modeling and its key challenges. This will help set the context for your research.*

1.4. Literature Review

RC: *Line 57: For the literature review, it may be more effective to organize the discussion by related topics or themes rather than describing each study in detail.*

1.5. Number of draws

RC: *Line 293: The rationale for selecting 100 and 600 draws needs to be explained more clearly. Why were these specific numbers chosen? Discuss how they are sufficient for capturing the parameter variability in*

this study.

1.6. Figure placement

RC: *Figures 5 and 6: These figures should be placed before the conclusion section to ensure that all supporting visualizations are discussed prior to summarizing the findings.*

AR: We are using the LATEX formatting engine, which may move floating objects forward or backward depending on available page space; we leave this to editorial choice.

1.7. Practical impacts

RC: *Conclusion: The conclusion section needs to be strengthened. Summarize the main results clearly and discuss their implications for real-world applications. Additionally, outline potential directions for future research to provide a comprehensive closure.*