

**Review Form 1.7**

Journal Name:	<b>Asian Journal of Probability and Statistics</b>
Manuscript Number:	<b>Ms_AJPAS_106364</b>
Title of the Manuscript:	<b>A Bayesian Nonparametric Modeling Approach to Settlement patterns of pastoralists population in Kenya</b>
Type of the Article	

**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Compulsory</b> REVISION comments</p> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p>	<p>1. The manuscript is important for the scientific community as it presents an innovative application of Bayesian nonparametric methods to model settlement patterns of pastoralists in Kenya. Bayesian nonparametric methods have the advantage of being flexible and adaptive, allowing for the identification of clusters and subgroups without making restrictive assumptions about the data or relationships. This approach may provide valuable insights into the settlement patterns of pastoralists and their dependence on environmental, social, and economic factors, thus contributing to the body of knowledge on pastoralism and settler mobility in arid and semi-arid regions. The findings are expected to have practical implications for pastoralists' resilience to environmental and social pressures and for the development of sustainable land use and resource management strategies in Kenya and similar contexts.</p> <p>2. The title of the article is suitable, as it accurately reflects the focus and main contribution of the study. The title clearly indicates that the article is about using Bayesian nonparametric methods to analyze settlement patterns of pastoralists in Kenya, which is the central theme of the study.</p> <p>3. Yes, the abstract of the article is comprehensive. It provides a brief summary of the study's main objectives, methods, key findings, and conclusions. The abstract correctly reflects the focus and main contribution of the study, which is to use Bayesian nonparametric methods to analyze settlement patterns of pastoralists in Kenya.</p> <p>4. Yes, I believe that the subsections and structure of the manuscript are appropriate.</p> <p>5. I believe that the manuscript has a certain scientific value. It focuses on an important topic related to pastoralism in Kenya and applies a Bayesian nonparametric approach to model settlement patterns.</p> <p>6. The article cites recent research literature and correctly cites these references, providing strong support for the article's arguments.</p> <p>7. The provided data is quite robust, but the explanations of the interactions between them are not very comprehensive. It is hoped that the specific impacts of data explanations can be strengthened to enhance readability.</p>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>	<p>1. Yes, the English quality of the article is suitable for scholarly communications. The language is clear and concise, and the grammar and spelling are generally accurate.</p>	
<p><b>Optional/General</b> comments</p>	No	

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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**Reviewer Details:**

Name:	<b>Xiu Ji</b>
Department, University & Country	<b>School of Electrical and Information Engineering, Changchun Institute of Technology, China</b>