

27 May, 2024

Dear Editor,

We are submitting our revised paper “*The **nhppp** package for simulating non-homogeneous Poisson point processes in R* ” for your consideration for publication in *PLOS ONE*.

Per instructions, we have uploaded a tracked-changes version of the manuscript, where additions are in red font.

Point to point replies to comments are listed in the Response Letter (uploaded separately). I wish to bring two items to your attention: It appears that the Editor Comments do not refer to our manuscript (might they refer to another manuscript handled by the same editor?). We would be happy to address an alternative set of Editor comments, if any, in the next iteration. I also point out that the comments of Reviewer 2 are so nonspecific that I cannot address them in any meaningful way.

Nevertheless, we made augmentations and edits to the manuscript to reflect the evolution of our **nhppp** package since the previous submission. Most notably the package now includes more vectorized functions written in C++. The vectorized functions allow very fast simulation of samples from different intensity functions using the ‘thinning’ algorithm. We also added a new table (Table 1) that describes all the functions in the package. This augmentation is part of the future work that was described in the previous version of the manuscript. All changes (except for the contents of Table 1) are depicted in red font.

As described in the manuscript, a preprint of this work was submitted to [arXiv](#),¹ the package is on the Comprehensive R Archive Network, and its code is in a publicly accessible GitHub repository.

No part of this manuscript is considered for peer review and publication elsewhere.

We hope that the reviewers and you will deem the manuscript worthy of publication.

Regards,

TA Trikalinos

¹The preprint is uploaded as a ‘Related Manuscript’, per submission instructions