

To: Editor(s), GJI

From: Jiangtao Li

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Dear Editor,

We are submitting a manuscript entitled “Application of temporal re-weighting to ambient noise cross-correlation for improved seismic Green’s function” for your consideration for publication in Geophysical Journal International.

The study applies a temporal re-weighting method to noise cross-correlation with seismic data from the USArray, which considerably improves the retrieved Green’s functions. The key points of the manuscript include: (1) The method is applicable to seismic data, making the effective noise field more isotropic and can be widely applied; (2) The method produces more robust amplitude measurements for seismic attenuation study; (3) We propose an alternative measure of signal-to-noise ratio by antisymmetry or acausality. The method and results are likely to attract interests of geophysicists as well as broad audience.

I certify that the paper is original work, has not been published before and is not being considered for publication elsewhere. Attached are comments from the editors of GRL for your reference. Thank you for your time and consideration. I look forward to hearing from you.

Best regards,

Jiangtao Li

Postdoc in Seismology

Comments from the editors of GRL:

"Dear Mr. Li,

Thank you for submitting "Application of temporal re-weighting to ambient noise cross-correlation for improved seismic Green's function" (2019GL084188) to Geophysical Research Letters. After careful consideration of the manuscript I regret to inform you that I have decided not to send the paper out for review. Based on my reading of the manuscript relative to a large number of other submissions, the paper is too technical in scope and with insufficiently broad implications for the GRL readership.

The AE and I certainly enjoyed reading your paper (see the AE's comment below) but we feel that GRL is not the right place for it. I suggest that you expand your manuscript and submit it to a more specialized, full-format journal. GRL's mandate to publish important new science at the forefront of AGU disciplines (see Eos, Vol. 97, doi:10.1029/2016EO056437 at <https://eos.org/aqu-news/new-geophysical-research-letters-editorial-revisions-policies>) means that we must decline many good manuscripts.

My decision does not reflect a judgment on the quality of your work, but that I consider the focus of the material better suited for another journal.

Thank you again for your interest in GRL. I am sorry I am unable to give you a more positive response.

Sincerely,

Jeroen Ritsema
Editor
Geophysical Research Letters

AE:

I enjoyed reading the papers and it has great implications for the field of ambient noise seismology. Given that it is more about the technique than the scientific results, I would recommend submitting to another journal (GJI?) and submitting your attenuation map to GRL."