## Accepted Manuscript

Title: An asymptotic theory for cross-correlation between auto-correlated sequences and its application on neuroimaging data

Author: Yunyi Zhou Chenyang Tao Wenlian Lu Jianfeng Feng

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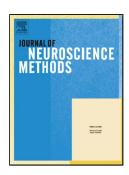
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## ACCEPTED MANUSCRIPT

- We propose a widely applicable approach for correcting temporal auto-correlation of time series on functional connectivity.
- Both theoretical proofs and numerical experiments are provided to validate the method.
- This approach is applied to different real datasets to prove its applicability.

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