Resource Summary Report

Generated by NIF on May 19, 2025

seqNMF

RRID:SCR_017068
Type: Tool

Proper Citation

seqNMF (RRID:SCR_017068)

Resource Information

URL: https://github.com/FeeLab/seqNMF

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Description: Software tool for unsupervised discovery of sequential structure. Used to detect sequences in neural data generated by internal behaviors, such as animal thinking or sleeping. Used for unsupervised discovery of temporal sequences in high dimensional datasets in neuroscience without reference to external markers.

Resource Type: software application, software resource, data analysis software, data processing software

Defining Citation: PMID:30719973

Keywords: sequence, structure, high, dimention, dataset, neuroscience, repeated, sequential, pattern, data

Funding: Simons Foundation Simons Collaboration for the Global Brain ;
NIDCD R01 DC009183;
G Harold and Leila Y. Mathers Foundation ;
U.S. Department of Defense NDSEG Fellowship program ;
Department of Energy ;
Labor and Economic Growth Computational Science Graduate Fellowship ;
NIBIB T32 EB019940;
NINDS U19 NS10 4648;
NIMH R25 MH062204

Availability: Free, Available for download, Freely available

Resource Name: seqNMF

Resource ID: SCR_017068

License: MIT License

Record Creation Time: 20220129T080333+0000

Record Last Update: 20250517T060311+0000

Ratings and Alerts

No rating or validation information has been found for seqNMF.

No alerts have been found for seqNMF.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Zhang Y, et al. (2024) Long-term mesoscale imaging of 3D intercellular dynamics across a mammalian organ. Cell, 187(21), 6104.

Costa RM, et al. (2022) Neuronal population activity dynamics reveal a low-dimensional signature of operant learning in Aplysia. Communications biology, 5(1), 90.

MacDowell CJ, et al. (2020) Low-Dimensional Spatiotemporal Dynamics Underlie Cortex-wide Neural Activity. Current biology : CB, 30(14), 2665.

Unakafova VA, et al. (2019) Comparing Open-Source Toolboxes for Processing and Analysis of Spike and Local Field Potentials Data. Frontiers in neuroinformatics, 13, 57.