

Resource Summary Report

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circular statistics

RRID:SCR_016651

Type: Tool

Proper Citation

circular statistics (RRID:SCR_016651)

Resource Information

URL: <https://es.mathworks.com/matlabcentral/fileexchange/10676-circular-statistics-toolbox-directional-statistics>

Proper Citation: circular statistics (RRID:SCR_016651)

Description: Software toolbox for MATLAB for the descriptive and inferential statistical analysis of directional data.

Abbreviations: CircStat

Synonyms: Matlab Circular Statistics Toolbox, , circstat-matlab, circular statistics, Circular Statistics, CircStat for Matlab

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

Defining Citation: [DOI:10.18637/jss.v031.i10](https://doi.org/10.18637/jss.v031.i10)

Keywords: circular, inferential, statistics, directional, data

Funding: German National Academic Foundation ;
German Ministry of Education ;
Science ;
Research and Technology

Availability: Free, Available for download, Registration required to MathWorks Account,

Resource Name: circular statistics

Resource ID: SCR_016651

Alternate URLs: <https://github.com/circstat/circstat-matlab>

License: Copyright (c) 2011, Philipp Berens

Record Creation Time: 20220129T080331+0000

Record Last Update: 20260805T044357+0000

Ratings and Alerts

No rating or validation information has been found for circular statistics.

No alerts have been found for circular statistics.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 42 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Han HB, et al. (2026) Working memory readout varies with frontal theta rhythms. *Neuron*, 114(1), 159.

Basha D, et al. (2025) The reuniens nucleus of the thalamus facilitates hippocampo-cortical dialogue during sleep. *eLife*, 12.

Griggs WS, et al. (2025) Functional ultrasound neuroimaging reveals mesoscopic organization of saccades in the lateral intraparietal area. *Nature communications*, 16(1), 8752.

Fischer C, et al. (2025) A direct neural signature of serial dependence in working memory. *eLife*, 13.

Abbaspoor S, et al. (2024) Circuit dynamics of superficial and deep CA1 pyramidal cells and inhibitory cells in freely moving macaques. *Cell reports*, 43(8), 114519.

Mohanta S, et al. (2024) Traveling waves shape neural population dynamics enabling predictions and internal model updating. *bioRxiv : the preprint server for biology*.

Jahn CI, et al. (2024) Learning attentional templates for value-based decision-making. *Cell*, 187(6), 1476.

Adam CD, et al. (2024) Disrupted Hippocampal Theta-Gamma Coupling and Spike-Field Coherence Following Experimental Traumatic Brain Injury. *bioRxiv : the preprint server for biology*.

Feliciano-Ramos PA, et al. (2023) Hippocampal memory reactivation during sleep is correlated with specific cortical states of the retrosplenial and prefrontal cortices. *Learning & memory (Cold Spring Harbor, N.Y.)*, 30(9), 221.

Abbaspoor S, et al. (2023) State-dependent circuit dynamics of superficial and deep CA1 pyramidal cells in macaques. *bioRxiv : the preprint server for biology*.

Tseng CH, et al. (2023) The Effect of the Peristimulus ?? Phase on Visual Perception through Real-Time Phase-Locked Stimulus Presentation. *eNeuro*, 10(8).

Li Q, et al. (2023) Reinstating olfactory bulb-derived limbic gamma oscillations alleviates depression-like behavioral deficits in rodents. *Neuron*, 111(13), 2065.

Raithel CU, et al. (2023) Recruitment of grid-like responses in human entorhinal and piriform cortices by odor landmark-based navigation. *Current biology : CB*, 33(17), 3561.

Veit J, et al. (2023) Cortical VIP neurons locally control the gain but globally control the coherence of gamma band rhythms. *Neuron*, 111(3), 405.

Koul A, et al. (2023) Interpersonal synchronization of spontaneously generated body movements. *iScience*, 26(3), 106104.

Dehnavi F, et al. (2023) Memory ability and retention performance relate differentially to sleep depth and spindle type. *iScience*, 26(11), 108154.

Raposo I, et al. (2023) Periodic attention deficits after frontoparietal lesions provide causal evidence for rhythmic attentional sampling. *Current biology : CB*, 33(22), 4893.

Hahn MA, et al. (2022) Slow oscillation-spindle coupling strength predicts real-life gross-motor learning in adolescents and adults. *eLife*, 11.

Gutierrez-Barragan D, et al. (2022) Unique spatiotemporal fMRI dynamics in the awake mouse brain. *Current biology : CB*, 32(3), 631.

Rocchi F, et al. (2022) Increased fMRI connectivity upon chemogenetic inhibition of the mouse prefrontal cortex. *Nature communications*, 13(1), 1056.