Resource Summary Report

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MNE software

RRID:SCR_005972
Type: Tool

Proper Citation

MNE software (RRID:SCR_005972)

Resource Information

URL: http://martinos.org/mne/

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Description: Software suite for processing magnetoencephalography and electroencephalography data. Open source Python software for exploring, visualizing, and analyzing human neurophysiological data including MEG, EEG, sEEG, ECoG . Implements all functionality of MNE Matlab tools in Python and extends capabilities of MNE Matlab tools to, e.g., frequency-domain and time-frequency analyses and non-parametric statistics.

Abbreviations: MNE

Synonyms: Minimum Norm Current Estimates Software, Minimum Norm Current Estimates, MNE tools for MEG and EEG data analysis, MNE-Python

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

Defining Citation: PMID:24161808, PMID:24431986

Keywords: Magnetoencephalography data processing, electroencephaography data processing, data analysis, eeg, meg, linux, mac osx, human neurophysiological data, statistics

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Availability: Free, Available for download, Freely available

Resource Name: MNE software

Resource ID: SCR_005972

Alternate IDs: nlx_151346

Alternate URLs: https://sources.debian.org/src/python3-mne/, http://www.nitrc.org/projects/mne, http://www.nmr.mgh.harvard.edu/martinos/ncrr/sofMNE.html, https://github.com/mne-tools/, https://mne.tools/

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Ratings and Alerts

No rating or validation information has been found for MNE software.

No alerts have been found for MNE software.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 97 mentions in open access literature.

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

Huang Q, et al. (2026) Efficient coding in working memory is adapted to the structure of the environment. Cell reports, 45(1), 116861.

Kato Y, et al. (2025) Frequency-specific neural abnormalities in congenital prosopagnosia revealed by magnetoencephalography during face perception. Scientific reports, 15(1), 31665.

Köhler CA, et al. (2025) Improving data sharing and knowledge transfer via the Neuroelectrophysiology Analysis Ontology (NEAO). Scientific data, 12(1), 907.

Ala-Salomäki H, et al. (2025) Test-retest reliability of MEG functional brain connectivity related to language production: Behavioral, functional, and structural underpinnings of reliable connectivity. Imaging neuroscience (Cambridge, Mass.), 3.

Forster C, et al. (2025) Pre-stimulus beta power mediates explicit and implicit perceptual biases in distinct cortical areas. Communications psychology, 3(1), 93.

Frelih T, et al. (2025) Modulation of aperiodic EEG activity provides sensitive index of cognitive state changes during working memory task. eLife, 13.

Liu J, et al. (2025) High-Density Electroencephalography Detects Spatiotemporal Abnormalities in Brain Networks in Patients With Glioma-Related Epilepsy. CNS neuroscience & therapeutics, 31(4), e70396.

Dumitrescu AM, et al. (2025) Investigating the Spatio-Temporal Signatures of Language Control-Related Brain Synchronization Processes. Human brain mapping, 46(2), e70109.

Gu Y, et al. (2025) Neural oscillations and top-down connectivity are modulated by object-scene congruency. Cerebral cortex (New York, N.Y. : 1991), 35(10).

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

Glica A, et al. (2025) Reevaluating the neural noise in dyslexia using biomarkers from electroencephalography and high-resolution magnetic resonance spectroscopy. eLife, 13.

Raghavan VS, et al. (2025) Neural encoding of linguistic features during natural sentence reading. iScience, 28(7), 112798.

Mantegna F, et al. (2025) Time-resolved hemispheric lateralization of audiomotor functional connectivity during covert speech production. Cell reports, 44(1), 115137.

Hall-McMaster S, et al. (2025) Neural evidence that humans reuse strategies to solve new tasks. PLoS biology, 23(6), e3003174.

Bolt E, et al. (2024) Auditory Encoding of Natural Speech at Subcortical and Cortical Levels Is Not Indicative of Cognitive Decline. eNeuro, 11(5).

Sun Y, et al. (2024) Dual-Alpha: a large EEG study for dual-frequency SSVEP brain-computer interface. GigaScience, 13.

Yao Z, et al. (2024) Reactivating cue approached positive personality traits during sleep promotes positive self-referential processing. iScience, 27(7), 110341.

Sun Z, et al. (2024) A novel method for PET connectomics guided by fibre-tracking MRI: Application to Alzheimer's disease. Human brain mapping, 45(4), e26659.

Bosseler AN, et al. (2024) Infants' brain responses to social interaction predict future language growth. Current biology : CB, 34(8), 1731.

Corsini A, et al. (2024) Speech perception difficulty modulates theta-band encoding of articulatory synergies. Journal of neurophysiology, 131(3), 480.