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

Defining Citation: PMID:24161808, PMID:24431986

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

Funding: European Research Council (ERC) StG-263584;
NCRR P41 RR014075;
NIBIB P41 EB015896;
NIBIB R01 EB009048;
NIDCD F32DC012456;
NSF 0958669;
NSF 1042134

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 114 mentions in open access literature.

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

Wang F, et al. (2026) An EEG dataset for handwriting imagery decoding of Chinese character strokes and Pinyin single vowels. Scientific data, 13(1).

Tanaka K, et al. (2026) Dynamic Interaction Between Structural Asymmetry and Attention in the Right-Ear Advantage Revealed by MEG-Based ASSRs. Brain sciences, 16(3).

Kern S, et al. (2026) Challenges in replay detection by TDLM in post-encoding resting state. eLife, 14.

Fan X, et al. (2026) The representation of facial emotion expands from sensory to prefrontal cortex with development. eLife, 14.

Ferré F, et al. (2026) Selective impairment of auditory discrimination in critically ill patients with delirium: a prospective electroencephalographic observational study. BJA open, 17, 100517.

Takahashi K, et al. (2026) Sleep stage-specific effects of 0.75 Hz phase-synchronized rTMS and tACS on delta frequency activity during sleep. Scientific reports, 16(1).

Lohi S, et al. (2026) An open-source JavaScript clinical neurophysiology library for education and clinical research. Clinical neurophysiology practice, 11, 115.

Jihen S, et al. (2026) Filter bank CSP with Riemannian weighting for disability-centric motor imagery brain computer interface. Brain informatics, 13(1).

Ma S, et al. (2026) Morphological and electroencephalographic correlates in patients with disorders of consciousness following primary brainstem hemorrhage: a retrospective analysis. Frontiers in neurology, 17, 1786548.

Mello M, et al. (2026) Neural selectivity for social interactions in the infant brain. iScience, 29(6), 116287.

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

Yan X, et al. (2026) Shared neural geometries for bilingual semantic representations in human hippocampal neurons. Cell.

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

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.

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

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

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