

Resource Summary Report

Generated by [RRID](#) on Sep 10, 2026

Eelbrain

RRID:SCR_014661

Type: Tool

Proper Citation

Eelbrain (RRID:SCR_014661)

Resource Information

URL: <https://pythonhosted.org/eelbrain/>

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Description: Statistical analysis toolbox for MEG and EEG. There are three primary data-objects: Factor for categorical variables, Var for scalar variables, and NDVar for multidimensional data. Factor is a container for one-dimensional, categorical data ??? each case is described by a string label. Var is a container to associate one-dimensional numpy.ndarray objects with a name. NDVars offer numpy functionality that takes into account the dimensions. There is also a Dataset class which acts as a vessel for variable objects (Factor, Var and NDVar) describing the same cases.

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

Keywords: statistical analysis, analysis toolbox, electrical brain activity, meg, eeg

Funding: NYU Abu Dhabi Institute G1001

Availability: Open source, Acknowledgement requested

Resource Name: Eelbrain

Resource ID: SCR_014661

Alternate URLs: <https://github.com/christianbrodbeck/Eelbrain>

Record Creation Time: 20220129T080321+0000

Record Last Update: 20260905T132749+0000

Ratings and Alerts

No rating or validation information has been found for Eelbrain.

No alerts have been found for Eelbrain.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Chen XJ, et al. (2026) A Shared Neural Mechanism for Abstract Grammatical Computations across Languages in Bilinguals. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 46(26).

Wilroth J, et al. (2026) Neural Tracking of Sustained Attention, Attention Switching, and Natural Conversation in Audiovisual Environments Using Wearable EEG. *The European journal of neuroscience*, 63(9), e70538.

Brodbeck C, et al. (2025) Recurrent neural networks as neuro-computational models of human speech recognition. *PLoS computational biology*, 21(7), e1013244.

Di Liberto GM, et al. (2023) A standardised open science framework for sharing and re-analysing neural data acquired to continuous sensory stimuli. *ArXiv*.

Brodbeck C, et al. (2023) Eelbrain, a Python toolkit for time-continuous analysis with temporal response functions. *eLife*, 12.

Stockall L, et al. (2019) Prefix Stripping Re-Re-Revisited: MEG Investigations of Morphological Decomposition and Recomposition. *Frontiers in psychology*, 10, 1964.

Hartmann T, et al. (2019) Auditory cortical generators of the Frequency Following Response are modulated by intermodal attention. *NeuroImage*, 203, 116185.

Gwilliams L, et al. (2018) Morphological representations are extrapolated from morpho-syntactic rules. *Neuropsychologia*, 114, 77.

Brodbeck C, et al. (2018) Rapid Transformation from Auditory to Linguistic Representations of Continuous Speech. *Current biology : CB*, 28(24), 3976.

Flick G, et al. (2018) Building words and phrases in the left temporal lobe. *Cortex; a journal devoted to the study of the nervous system and behavior*, 106, 213.

Williams A, et al. (2017) Early sensitivity of left perisylvian cortex to relationality in nouns and verbs. *Neuropsychologia*, 100, 131.

Blanco-Elorrieta E, et al. (2017) Bilingual Language Switching in the Laboratory versus in the Wild: The Spatiotemporal Dynamics of Adaptive Language Control. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 37(37), 9022.

Brodbeck C, et al. (2016) Language in Context: MEG Evidence for Modality-General and -Specific Responses to Reference Resolution. *eNeuro*, 3(6).

Brodbeck C, et al. (2015) EEG can Track the Time Course of Successful Reference Resolution in Small Visual Worlds. *Frontiers in psychology*, 6, 1787.