Resource Summary Report

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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, categorial 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: software application, software resource, data analysis software, data processing software

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: 20250519T203836+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 10 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

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.