

Resource Summary Report

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NiLearn

RRID:SCR_001362

Type: Tool

Proper Citation

NiLearn (RRID:SCR_001362)

Resource Information

URL: <http://nilearn.github.io>

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Description: A software package to facilitate the use of statistical learning on NeuroImaging data. Namely NiLearn leverages the scikit-learn Python toolbox for multivariate statistics with applications such as predictive modelling, classification, decoding, or connectivity analysis.

Abbreviations: NiLearn

Synonyms: NiLearn: Machine learning for Neuro-Imaging in Python

Resource Type: software resource, software application, software library, image processing software, data processing software, software toolkit

Keywords: analyze, clinical neuroinformatics, magnetic resonance, nifti, os independent, python

Availability: Free, Freely Available

Resource Name: NiLearn

Resource ID: SCR_001362

Alternate IDs: nlx_155897

Alternate URLs: <http://www.nitrc.org/projects/nilearn>

License: BSD License

Record Creation Time: 20220129T080207+0000

Record Last Update: 20260728T043111+0000

Ratings and Alerts

No rating or validation information has been found for NiLearn.

No alerts have been found for NiLearn.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 434 mentions in open access literature.

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

Moser J, et al. (2026) Precision functional neuroimaging reveals individually specific auditory responses in infants. *Developmental cognitive neuroscience*, 77, 101644.

Hansson G, et al. (2026) Motor performance and higher associative cortical networks in adolescents with neonatal hypoxic-ischaemic encephalopathy treated with therapeutic hypothermia. *Developmental medicine and child neurology*, 68(1), 99.

Hamouda E, et al. (2026) Preterm birth differentially impacts structural and functional connectivity of cortical gyri and sulci. *Developmental cognitive neuroscience*, 77, 101647.

West JT, et al. (2026) Exploring the neural underpinnings of semantic and perceptual false memory formation. *Neuropsychologia*, 221, 109332.

Heukamp NJ, et al. (2025) Beyond the chronic pain stage: default mode network perturbation depends on years lived with back pain. *Pain*, 166(1), 160.

Trutti AC, et al. (2025) Investigating working memory updating processes of the human subcortex using 7T MRI. *eLife*, 13.

Mitchell JL, et al. (2025) Visual Word Form Area demonstrates individual and task-agnostic consistency but inter-individual variability. *bioRxiv : the preprint server for biology*.

Webb L, et al. (2025) Altered striatal functional gradients in obsessive-compulsive disorder. *medRxiv : the preprint server for health sciences*.

Katayama N, et al. (2025) Dynamic neural network modulation associated with rumination in major depressive disorder: a prospective observational comparative analysis of cognitive behavioral therapy and pharmacotherapy. *Translational psychiatry*, 15(1), 267.

Liu X, et al. (2025) Episode-specific cortical functional connectome reorganization and neurobiological correlates in bipolar disorder: a cross-sectional study. *BMC medicine*, 23(1), 457.

Cai J, et al. (2025) Natural language processing models reveal neural dynamics of human conversation. *Nature communications*, 16(1), 3376.

Esposito M, et al. (2025) Flexible hippocampal representation of abstract boundaries supports memory-guided choice. *Nature communications*, 16(1), 2377.

Jouvencel A, et al. (2025) Age-related disturbances in rest-activity rhythms and integrity of the hippocampal network: An exploratory study. *Neurobiology of sleep and circadian rhythms*, 18, 100111.

Liu P, et al. (2025) The effects of intermittent theta burst stimulation (iTBS) on resting-state brain entropy (BEN). *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*, 22(3), e00556.

Luo X, et al. (2025) Coordinating multiple mental faculties during learning. *Scientific reports*, 15(1), 5319.

Jarrett C, et al. (2025) Progressive Changes Between Thalamic Nuclei and Cortical Networks Across Stimulus-Response Learning. *Human brain mapping*, 46(15), e70382.

Muratore AF, et al. (2025) Different brain regions support deliberation during food choice in disordered and healthy eating. *Research square*.

Sydnor VJ, et al. (2025) Human thalamocortical structural connectivity develops in line with a hierarchical axis of cortical plasticity. *Nature neuroscience*, 28(8), 1772.

Teng T, et al. (2025) Microbiota alterations leading to amino acid deficiency contribute to depression in children and adolescents. *Microbiome*, 13(1), 128.

Germani E, et al. (2025) HCP Multi-Pipeline: a derived dataset to investigate analytical variability in fMRI. *Scientific data*, 12(1), 940.