

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

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: 20260731T042612+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 [kravitz2](#) .

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

H??kansson 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.

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

Clements GM, et al. (2025) Effects of Aging, Estimated Fitness, and Cerebrovascular Status on White Matter Microstructural Health. *Human brain mapping*, 46(5), e70168.

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

Shafiei G, et al. (2025) Reproducible Brain Charts: An open data resource for mapping brain development and its associations with mental health. *bioRxiv : the preprint server for biology*.

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.

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

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

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

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.

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

Moser J, et al. (2025) Precision Functional Neuroimaging Reveals Individually Specific Auditory Responses in Infants. *bioRxiv : the preprint server for biology*.

Wang Z, et al. (2025) Resting state fMRI-based temporal coherence mapping. *Imaging neuroscience (Cambridge, Mass.)*, 3.

Lamoureux A, et al. (2025) Evaluating lesion-specific preprocessing pipelines for rs-fMRI in stroke patients: Impact on functional connectivity and behavioral prediction. *Imaging neuroscience (Cambridge, Mass.)*, 3.

Roy E, et al. (2025) Development of the arcuate fasciculus is linked to learning gains in reading. *Imaging neuroscience (Cambridge, Mass.)*, 3.