

Resource Summary Report

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Neuroimaging in Python

RRID:SCR_013141

Type: Tool

Proper Citation

Neuroimaging in Python (RRID:SCR_013141)

Resource Information

URL: <http://nipy.org>

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Description: Community site to make brain imaging research easier that aims to build software that is clearly written, clearly explained, a good fit for the underlying ideas, and a natural home for collaboration.

Abbreviations: NIPY,

Synonyms: NIPY Community

Resource Type: software development tool, software resource, software development environment, data or information resource, portal, community building portal, software application

Defining Citation: [PMID:21897815](#)

Keywords: brain, imaging, neuroimaging, analysis, python, fmri, fmri analysis, magnetic resonance

Funding: NIMH 5R01MH081909-02;
NIBIB 1R03EB008673-01

Availability: Revised BSD license

Resource Name: Neuroimaging in Python

Resource ID: SCR_013141

Alternate IDs: nlx_149365

Alternate URLs: <http://www.nitrc.org/projects/nipy-community>
<http://www.nitrc.org/projects/nipype>

Record Creation Time: 20220129T080314+0000

Record Last Update: 20260803T040612+0000

Ratings and Alerts

No rating or validation information has been found for Neuroimaging in Python.

No alerts have been found for Neuroimaging in Python.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 24 mentions in open access literature.

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

Zhao S, et al. (2025) Histogram analysis based on DTI and NODDI for differentiating atypical high-grade glioma from primary central nervous system lymphoma. *Frontiers in neurology*, 16, 1577811.

Chen M, et al. (2025) Insights into structural deviations in attention deficit hyperactivity disorder (ADHD) and comorbidities using big data-derived brain charts: a cross-sectional study. *Quantitative imaging in medicine and surgery*, 15(9), 8320.

Momota Y, et al. (2024) Amyloid- β prediction machine learning model using source-based morphometry across neurocognitive disorders. *Scientific reports*, 14(1), 7633.

Cybinski LM, et al. (2024) Intermittent theta burst stimulation over the left prefrontal cortex: no additional effect for virtual reality exposure therapy in acrophobia-a randomized trial. *Scientific reports*, 14(1), 29450.

Ospel JM, et al. (2024) Infarcts Due to Large Vessel Occlusions Continue to Grow Despite Near-Complete Reperfusion After Endovascular Treatment. *Journal of stroke*, 26(2), 260.

Hardy SJ, et al. (2023) Cognitive and neuroimaging outcomes in individuals with benign and low-grade brain tumours receiving radiotherapy: a protocol for a prospective cohort study. *BMJ open*, 13(2), e066458.

Miotto EC, et al. (2022) Episodic Memory, Hippocampal Volume, and Function for Classification of Mild Cognitive Impairment Patients Regarding Amyloid Pathology. *Journal of Alzheimer's disease : JAD*, 89(1), 181.

Messinger A, et al. (2021) A collaborative resource platform for non-human primate neuroimaging. *NeuroImage*, 226, 117519.

Chen X, et al. (2020) DNNBrain: A Unifying Toolbox for Mapping Deep Neural Networks and Brains. *Frontiers in computational neuroscience*, 14, 580632.

Polimeni JR, et al. (2018) Analysis strategies for high-resolution UHF-fMRI data. *NeuroImage*, 168, 296.

Savio AM, et al. (2017) Pypes: Workflows for Processing Multimodal Neuroimaging Data. *Frontiers in neuroinformatics*, 11, 25.

Biskamp J, et al. (2017) Organization of prefrontal network activity by respiration-related oscillations. *Scientific reports*, 7, 45508.

Soares JM, et al. (2016) A Hitchhiker's Guide to Functional Magnetic Resonance Imaging. *Frontiers in neuroscience*, 10, 515.

Bzdok D, et al. (2016) Formal Models of the Network Co-occurrence Underlying Mental Operations. *PLoS computational biology*, 12(6), e1004994.

Pedregosa F, et al. (2015) Data-driven HRF estimation for encoding and decoding models. *NeuroImage*, 104, 209.

Wakeman DG, et al. (2015) A multi-subject, multi-modal human neuroimaging dataset. *Scientific data*, 2, 150001.

Liu S, et al. (2015) Multimodal neuroimaging computing: the workflows, methods, and platforms. *Brain informatics*, 2(3), 181.

LaPlante RA, et al. (2014) The Connectome Visualization Utility: software for visualization of human brain networks. *PloS one*, 9(12), e113838.

Añel JA, et al. (2013) Equivalent latitude computation using regions of interest (ROI). *PloS one*, 8(9), e72970.

Vlachos I, et al. (2013) Neural system prediction and identification challenge. *Frontiers in neuroinformatics*, 7, 43.