Resource Summary Report

Generated by NIF on Aug 28, 2026

NIPY

RRID:SCR_002489
Type: Tool

Proper Citation

NIPY (RRID:SCR_002489)

Resource Information

URL: http://nipy.org/nipy

Proper Citation: NIPY (RRID:SCR_002489)

Description: A complete Python environment for the analysis of structural and functional neuroimaging data. It currently has a full system for general linear modeling of functional magnetic resonance imaging (fMRI).

Abbreviations: NIPY

Synonyms: NIPY Structural and Functional Analysis

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

Keywords: magnetic resonance, python, neuroimaging, fmri

Availability: Free, Available for download, Freely available

Resource Name: NIPY

Resource ID: SCR_002489

Alternate IDs: nlx_155883

Alternate URLs: http://www.nitrc.org/projects/nipy

License: BSD License

Record Creation Time: 20220129T080213+0000

Record Last Update: 20260821T193644+0000

Ratings and Alerts

No rating or validation information has been found for NIPY.

No alerts have been found for NIPY.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 33 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Brunner G, et al. (2026) Altered functional connectivity of the hippocampus in cortico-subcortical networks in early-stage and emerging psychosis. European archives of psychiatry and clinical neuroscience, 276(3), 1053.

Carvalho J, et al. (2026) UltraFast Layer-Resolved Encoding (uFLARE) functional MRI deciphers bidirectional signaling from spontaneous activity. Nature communications, 17(1).

Papale AE, et al. (2025) Prefrontal default-mode network interactions with posterior hippocampus during exploration. bioRxiv : the preprint server for biology.

Gomes-Ribeiro J, et al. (2024) Mapping functional traces of opioid memories in the rat brain. Brain communications, 6(5), fcae281.

Schmidt M, et al. (2024) Olfactory Dysfunction and Limbic Hypoactivation in Temporal Lobe Epilepsy. Human brain mapping, 45(16), e70061.

Hallquist MN, et al. (2024) Reward-based option competition in human dorsal stream and transition from stochastic exploration to exploitation in continuous space. Science advances, 10(8), eadj2219.

Itkyal VS, et al. (2023) Voxel-wise Fusion of Resting fMRI Networks and Gray Matter Volume for Alzheimer's Disease Classification using Deep Multimodal Learning. Research square.

Carvalho J, et al. (2023) Extensive topographic remapping and functional sharpening in the adult rat visual pathway upon first visual experience. PLoS biology, 21(8), e3002229.

J??ger AP, et al. (2022) Motor sequences; separating the sequence from the motor. A longitudinal rsfMRI study. Brain structure & function, 227(3), 793.

Farahibozorg SR, et al. (2022) Distinct roles for the anterior temporal lobe and angular gyrus in the spatiotemporal cortical semantic network. Cerebral cortex (New York, N.Y. : 1991), 32(20), 4549.

Dado T, et al. (2022) Hyperrealistic neural decoding for reconstructing faces from fMRI activations via the GAN latent space. Scientific reports, 12(1), 141.

Ravindranath O, et al. (2022) Pubertal development underlies optimization of inhibitory control through specialization of ventrolateral prefrontal cortex. Developmental cognitive neuroscience, 58, 101162.

Park AT, et al. (2022) Early stressful experiences are associated with reduced neural responses to naturalistic emotional and social content in children. Developmental cognitive neuroscience, 57, 101152.

Flesch T, et al. (2022) Orthogonal representations for robust context-dependent task performance in brains and neural networks. Neuron, 110(7), 1258.

Marin-Garcia E, et al. (2021) Neural Correlates of Long-Term Memory Enhancement Following Retrieval Practice. Frontiers in human neuroscience, 15, 584560.

Chang LJ, et al. (2021) Endogenous variation in ventromedial prefrontal cortex state dynamics during naturalistic viewing reflects affective experience. Science advances, 7(17).

Park AT, et al. (2021) Early childhood stress is associated with blunted development of ventral tegmental area functional connectivity. Developmental cognitive neuroscience, 47, 100909.

Yotsutsuji S, et al. (2021) Evaluation of Task fMRI Decoding With Deep Learning on a Small Sample Dataset. Frontiers in neuroinformatics, 15, 577451.

Alvarez GM, et al. (2020) Systemic inflammation is associated with differential neural reactivity and connectivity to affective images. Social cognitive and affective neuroscience, 15(10), 1024.

Hatamzade Isfahani N, et al. (2020) The effect of capsulated and noncapsulated egg-yolk-specific antibody to reduce colonization in the intestine of Salmonella enterica ssp. enterica serovar Infantis-challenged broiler chickens. Poultry science, 99(3), 1387.