

Resource Summary Report

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

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: 20260808T185751+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 [SPARC SAWG](#).

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.

Itkyl 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.

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

neuroscience, 58, 101162.

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

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).

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

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

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.