# Resource Summary Report

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## Nipype

RRID:SCR_002502
Type: Tool

### Proper Citation

Nipype (RRID:SCR_002502)

### Resource Information

**URL:** http://nipy.org/nipype/

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**Description:** A package for writing fMRI analysis pipelines and interfacing with external analysis packages (SPM, FSL, AFNI). Current neuroimaging software offer users an incredible opportunity to analyze their data in different ways, with different underlying assumptions. However, this has resulted in a heterogeneous collection of specialized applications without transparent interoperability or a uniform operating interface. Nipype, an open-source, community-developed initiative under the umbrella of Nipy, is a Python project that solves these issues by providing a uniform interface to existing neuroimaging software and by facilitating interaction between these packages within a single workflow. Nipype provides an environment that encourages interactive exploration of algorithms from different packages (e.g., SPM, FSL), eases the design of workflows within and between packages, and reduces the learning curve necessary to use different packages. Nipype is creating a collaborative platform for neuroimaging software development in a high-level language and addressing limitations of existing pipeline systems.

**Abbreviations:** Nipype

**Synonyms:** Nipype: Neuroimaging in Python Pipeline and Interfaces, NIPY Pipeline and Interfaces

**Resource Type:** software resource, software application

**Defining Citation:** PMID:21897815

**Keywords:** magnetic resonance, python, workflow, analysis, pipeline, interface, data processing, neuroimaging

**Availability:** Free, Available for download, Freely available

**Resource Name:** Nipype

**Resource ID:** SCR_002502

**Alternate IDs:** nlx_155901

**Alternate URLs:** http://www.nitrc.org/projects/nipype

**License:** Apache License 2.0

**Record Creation Time:** 20220129T080213+0000

**Record Last Update:** 20260801T191040+0000

## Ratings and Alerts

No rating or validation information has been found for Nipype.

No alerts have been found for Nipype.

## Data and Source Information

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 822 mentions in open access literature.

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

Vijayarajah S, et al. (2026) Developmental differences in hippocampal long-axis contributions to memory precision. Developmental cognitive neuroscience, 77, 101654.

Ciccione L, et al. (2026) The Neural Bases of Graphical Perception: A Novel Instance of Cultural Recycling? Journal of cognitive neuroscience, 38(1), 71.

Wang M, et al. (2026) Global White Matter Damage in Focal Brainstem Injury Patients With Disorders of Consciousness: A Diffusion Tensor Tractography Study. European journal of neurology, 33(1), e70476.

Hennig J, et al. (2026) Avoidance habit learning in adolescents and young women with anorexia nervosa: an fMRI study. Journal of child psychology and psychiatry, and allied disciplines, 67(1), 79.

Wu S, et al. (2026) Forgiveness updates interpersonal memories to be less negative. Emotion (Washington, D.C.).

Reyes H, et al. (2026) Examining functional connectivity in metabolic syndrome and small vessel disease: A novel approach to understanding olfactory dysfunction and Alzheimer's disease. Brain research, 1872, 150084.

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

Lv Q, et al. (2025) Transdiagnostic Connectome-Based Prediction of Response Inhibition. Human brain mapping, 46(3), e70158.

Collin SHP, et al. (2025) Neural codes track prior events in a narrative and predict subsequent memory for details. Communications psychology, 3(1), 26.

Tripathi V, et al. (2025) Connectome-based predictive modeling of brain pathology and cognition in autosomal dominant Alzheimer's disease. Alzheimer's & dementia : the journal of the Alzheimer's Association, 21(3), e70061.

Smith DD, et al. (2025) Dynamic reconfiguration of brain coactivation states associated with active and lecture-based learning of university physics. bioRxiv : the preprint server for biology.

Tashjian SM, et al. (2025) Subregions in the ventromedial prefrontal cortex integrate threat and protective information to meta-represent safety. PLoS biology, 23(1), e3002986.

Isherwood S, et al. (2025) Multi-study fMRI outlooks on subcortical BOLD responses in the stop-signal paradigm. eLife, 12.

Fleck L, et al. (2025) Early-Life Adversity Predicts Markers of Aging-Related Neuroinflammation, Neurodegeneration, and Cognitive Impairment in Women. Annals of neurology, 97(4), 642.

Ren J, et al. (2025) DeepPrep: an accelerated, scalable and robust pipeline for neuroimaging preprocessing empowered by deep learning. Nature methods, 22(3), 473.

Durkin C, et al. (2025) The Beholder's Share: Bridging art and neuroscience to study individual differences in subjective experience. Proceedings of the National Academy of Sciences of the United States of America, 122(15), e2413871122.

Grabot L, et al. (2025) Traveling waves in the human visual cortex: An MEG-EEG model-based approach. PLoS computational biology, 21(4), e1013007.

Rowsthorn E, et al. (2025) Relationships between measures of neurovascular integrity and fluid transport in aging: a multi-modal neuroimaging study. Fluids and barriers of the CNS, 22(1), 59.

Guo T, et al. (2025) An fMRI dataset for investigating language control and cognitive control in bilinguals. Scientific data, 12(1), 889.

Lee KM, et al. (2025) Functional Architecture of the Human Hypothalamus: Cortical Coupling and Subregional Organization Using 7-Tesla fMRI. ArXiv.