# Resource Summary Report

Generated by NIF on May 20, 2025

## Brain Imaging Analysis Kit

RRID:SCR_014824
Type: Tool

### Proper Citation

Brain Imaging Analysis Kit (RRID:SCR_014824)

### Resource Information

**URL:** https://brainiak.org

**Proper Citation:** Brain Imaging Analysis Kit (RRID:SCR_014824)

**Description:** Open source software package of Python modules for neuroscience, primarily focused on functional Magnetic Resonance Imaging (fMRI) analysis. Used for analyzing neuroimaging data.

**Abbreviations:** BrainIAK

**Synonyms:** BrainIAK, Brain Imaging Analysis Kit, Brain Imaging Analysis Kit (BrainIAK)

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

**Keywords:** brain, python, module, imaging, fmri, data, analysis, neuroimaging

**Funding:**

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

**Resource Name:** Brain Imaging Analysis Kit

**Resource ID:** SCR_014824

**Alternate URLs:** https://github.com/brainiak/brainiak

**License:** Apache License 2.0

**Record Creation Time:** 20220129T080322+0000

**Record Last Update:** 20250519T204331+0000

## Ratings and Alerts

No rating or validation information has been found for Brain Imaging Analysis Kit.

No alerts have been found for Brain Imaging Analysis Kit.

## Data and Source Information

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 22 mentions in open access literature.

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


Zuo ZX, et al. (2023) A machine learning approach towards the differentiation between interoceptive and exteroceptive attention. The European journal of neuroscience, 58(2), 2523.

Li YP, et al. (2023) Perception and memory retrieval states are reflected in distributed patterns of background functional connectivity. NeuroImage, 276, 120221.

Cheong JH, et al. (2023) Synchronized affect in shared experiences strengthens social connection. Communications biology, 6(1), 1099.

Mennen AC, et al. (2022) Real-time neurofeedback to alter interpretations of a naturalistic narrative. Neuroimage. Reports, 2(3).

Meshulam M, et al. (2021) Neural alignment predicts learning outcomes in students taking an introduction to computer science course. Nature communications, 12(1), 1922.

Owen LLW, et al. (2021) High-level cognition during story listening is reflected in high-order dynamic correlations in neural activity patterns. Nature communications, 12(1), 5728.

Snoek L, et al. (2021) The Amsterdam Open MRI Collection, a set of multimodal MRI datasets for individual difference analyses. Scientific data, 8(1), 85.

Nastase SA, et al. (2021) The "Narratives" fMRI dataset for evaluating models of naturalistic language comprehension. Scientific data, 8(1), 250.

Bazeille T, et al. (2021) An empirical evaluation of functional alignment using inter-subject decoding. NeuroImage, 245, 118683.

Antony JW, et al. (2021) Behavioral, Physiological, and Neural Signatures of Surprise during Naturalistic Sports Viewing. Neuron, 109(2), 377.

Kumar M, et al. (2021) BrainIAK: The Brain Imaging Analysis Kit. Aperture neuro, 1(4).

Cai MB, et al. (2020) Incorporating structured assumptions with probabilistic graphical models in fMRI data analysis. Neuropsychologia, 144, 107500.

Nastase SA, et al. (2020) Leveraging shared connectivity to aggregate heterogeneous datasets into a common response space. NeuroImage, 217, 116865.

Ellis CT, et al. (2020) Facilitating open-science with realistic fMRI simulation: validation and application. PeerJ, 8, e8564.

Kumar M, et al. (2020) BrainIAK tutorials: User-friendly learning materials for advanced fMRI analysis. PLoS computational biology, 16(1), e1007549.

Weaverdyck ME, et al. (2020) Tools of the Trade Multivoxel pattern analysis in fMRI: a practical introduction for social and affective neuroscientists. Social cognitive and affective neuroscience, 15(4), 487.

Kok P, et al. (2020) Content-based Dissociation of Hippocampal Involvement in Prediction. Journal of cognitive neuroscience, 32(3), 527.

Tseng J, et al. (2020) Brain meta-state transitions demarcate thoughts across task contexts exposing the mental noise of trait neuroticism. Nature communications, 11(1), 3480.

Ellis CT, et al. (2019) Feasibility of topological data analysis for event-related fMRI. Network neuroscience (Cambridge, Mass.), 3(3), 695.

Nastase SA, et al. (2019) Measuring shared responses across subjects using intersubject correlation. Social cognitive and affective neuroscience, 14(6), 667.