

Resource Summary Report

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JIP Analysis Toolkit

RRID:SCR_009588

Type: Tool

Proper Citation

JIP Analysis Toolkit (RRID:SCR_009588)

Resource Information

URL: <http://www.nmr.mgh.harvard.edu/~jbm/jip/>

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Description: Software toolkit for analysis of rodent and non-human primate fMRI data. The toolkit consists of binary executables, highly portable open-source c code, and image resources that enable 1) Automated registration based upon mutual information (affine, non-linear warps), with flexible control and visualization of each step; 2) visualization of 4-dimensional data using either mosaic or tri-planar display of the z/slice dimension, and integration of a general linear model for graphical display of time series analysis; 3) A simple and flexible 1st-order GLM for fMRI time series analysis, a 1st-order GLM analysis for PET data within the SRTM framework, plus a 2nd-order GLM analysis following the Worsley 2002 scheme, and 4) MRI templates to place your rodent and non-human primate data into standardized spaces.

Abbreviations: JIP Toolkit

Synonyms: JIP fMRI Analysis Toolkit

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

Keywords: affine warp, atlas application, atlas data, c, console (text based), image display, image-to-image, linux, macos, magnetic resonance, nifti, nonlinear warp, pet, spect, posix/unix-like, registration, resampling, spatial transformation, time domain analysis, visualization, warping, fmri

Funding: NIBIB R03EB008134

Availability: MGH CSRL License

Resource Name: JIP Analysis Toolkit

Resource ID: SCR_009588

Alternate IDs: nlx_155778

Alternate URLs: <http://www.nitrc.org/projects/jip>

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260729T044220+0000

Ratings and Alerts

No rating or validation information has been found for JIP Analysis Toolkit.

No alerts have been found for JIP Analysis Toolkit.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Altavini TS, et al. (2025) Expectation-dependent stimulus selectivity in the ventral visual cortical pathway. *Proceedings of the National Academy of Sciences of the United States of America*, 122(13), e2406684122.

Luppi AI, et al. (2025) General anaesthesia decreases the uniqueness of brain functional connectivity across individuals and species. *Nature human behaviour*, 9(5), 987.

Yassin W, et al. (2024) Resting-State Networks of Awake Adolescent and Adult Squirrel Monkeys Using Ultra-High Field (9.4 T) Functional Magnetic Resonance Imaging. *eNeuro*, 11(5).

Ensel S, et al. (2024) Transient brain activity dynamics discriminate levels of consciousness during anesthesia. *Communications biology*, 7(1), 716.

Balan PF, et al. (2024) MEBRAINS 1.0: A new population-based macaque atlas. *Imaging neuroscience (Cambridge, Mass.)*, 2.

Oishi H, et al. (2024) Inferotemporal face patches are histo-architectonically distinct. *Cell reports*, 43(9), 114732.

Luppi AI, et al. (2023) General anaesthesia reduces the uniqueness of brain connectivity across individuals and across species. *bioRxiv : the preprint server for biology*.

Cui D, et al. (2023) Categorization learning induced changes in action representations in the macaque STS. *NeuroImage*, 265, 119780.

- Sypré L, et al. (2023) Intrinsic functional clustering of the macaque insular cortex. *Frontiers in integrative neuroscience*, 17, 1272529.
- Sypré L, et al. (2023) Functional characterization of macaque insula using task-based and resting-state fMRI. *NeuroImage*, 276, 120217.
- Jørgensen LM, et al. (2022) An fMRI-compatible system for targeted electrical stimulation. *Journal of neuroscience methods*, 378, 109659.
- Zafirova Y, et al. (2022) Keep the head in the right place: Face-body interactions in inferior temporal cortex. *NeuroImage*, 264, 119676.
- Fiave PA, et al. (2021) Motor resonance in monkey parietal and premotor cortex during action observation: Influence of viewing perspective and effector identity. *NeuroImage*, 224, 117398.
- Cui D, et al. (2021) Examining cross-modal fMRI adaptation for observed and executed actions in the monkey brain. *NeuroImage*, 233, 117988.
- Tasserie J, et al. (2020) Pypreclin: An automatic pipeline for macaque functional MRI preprocessing. *NeuroImage*, 207, 116353.
- Shepherd SV, et al. (2018) Functional Networks for Social Communication in the Macaque Monkey. *Neuron*, 99(2), 413.
- Sharma S, et al. (2018) Functional MRI Responses to Passive, Active, and Observed Touch in Somatosensory and Insular Cortices of the Macaque Monkey. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 38(15), 3689.
- Arcaro MJ, et al. (2017) A hierarchical, retinotopic proto-organization of the primate visual system at birth. *eLife*, 6.
- Liu PK, et al. (2016) Epigenetics of amphetamine-induced sensitization: HDAC5 expression and microRNA in neural remodeling. *Journal of biomedical science*, 23(1), 90.
- De Winter FL, et al. (2015) Lateralization for dynamic facial expressions in human superior temporal sulcus. *NeuroImage*, 106, 340.