Resource Summary Report

Generated by ASWG on May 1, 2025

PySurfer

RRID:SCR_002524
Type: Tool

Proper Citation

PySurfer (RRID:SCR_002524)

Resource Information

URL: http://pysurfer.github.com

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Description: Software Python tool for visualization and interaction with cortical surface representations of neuroimaging data from Freesurfer. It extends Mayavi powerful visualization engine with interface for working with MRI and MEG data. PySurfer offers command-line interface designed to broadly replicate Freesurfer program as well as Python library for writing scripts to explore complex datasets.

Abbreviations: PySurfer

Resource Type: software resource, data visualization software, data processing software, software toolkit, software application, software library

Keywords: eeg, meg, electrocorticography, magnetic resonance, mri, python, neuroimaging

Funding:

Availability: Free, Available for download, Freely available

Resource Name: PySurfer

Resource ID: SCR_002524

Alternate IDs: nlx_155930

Alternate URLs: http://www.nitrc.org/projects/pysurfer, https://sources.debian.org/src/python3-surfer/

License: New BSD License

Record Creation Time: 20220129T080213+0000

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Ratings and Alerts

No rating or validation information has been found for PySurfer.

No alerts have been found for PySurfer.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 28 mentions in open access literature.

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

Soman SM, et al. (2023) Cortical structural and functional coupling during development and implications for attention deficit hyperactivity disorder. Translational psychiatry, 13(1), 252.

Soman SM, et al. (2023) Functional and structural brain network development in children with attention deficit hyperactivity disorder. Human brain mapping, 44(8), 3394.

Ding W, et al. (2023) Association of cortical and subcortical microstructure with disease severity: impact on cognitive decline and language impairments in frontotemporal lobar degeneration. Alzheimer's research & therapy, 15(1), 58.

Levakov G, et al. (2023) Reliability and validity of brain-gastric phase synchronization. Human brain mapping, 44(14), 4956.

Fuglsang SA, et al. (2022) Mapping cortico-subcortical sensitivity to 4 Hz amplitude modulation depth in human auditory system with functional MRI. NeuroImage, 246, 118745.

Rebollo I, et al. (2022) The Sensory and Motor Components of the Cortical Hierarchy Are Coupled to the Rhythm of the Stomach during Rest. The Journal of neuroscience : the official journal of the Society for Neuroscience, 42(11), 2205.

Urai AE, et al. (2022) Persistent activity in human parietal cortex mediates perceptual choice repetition bias. Nature communications, 13(1), 6015.

Garin CM, et al. (2022) An evolutionary gap in primate default mode network organization.

Cell reports, 39(2), 110669.

Hu F, et al. (2022) Voxel-wise intermodal coupling analysis of two or more modalities using local covariance decomposition. Human brain mapping, 43(15), 4650.

Markello RD, et al. (2021) Comparing spatial null models for brain maps. NeuroImage, 236, 118052.

Vijayakumar N, et al. (2021) The development of structural covariance networks during the transition from childhood to adolescence. Scientific reports, 11(1), 9451.

Kragel JE, et al. (2021) Distinct cortical systems reinstate the content and context of episodic memories. Nature communications, 12(1), 4444.

Du M, et al. (2021) How does the brain navigate knowledge of social relations? Testing for shared neural mechanisms for shifting attention in space and social knowledge. NeuroImage, 235, 118019.

Kiesow H, et al. (2021) Deep learning identifies partially overlapping subnetworks in the human social brain. Communications biology, 4(1), 65.

Markello RD, et al. (2021) Standardizing workflows in imaging transcriptomics with the abagen toolbox. eLife, 10.

Kiesow H, et al. (2020) 10,000 social brains: Sex differentiation in human brain anatomy. Science advances, 6(12), eaaz1170.

Taschereau-Dumouchel V, et al. (2020) Multivoxel pattern analysis reveals dissociations between subjective fear and its physiological correlates. Molecular psychiatry, 25(10), 2342.

Gras V, et al. (2019) Optimizing BOLD sensitivity in the 7T Human Connectome Project resting-state fMRI protocol using plug-and-play parallel transmission. NeuroImage, 195, 1.

Combrisson E, et al. (2019) Visbrain: A Multi-Purpose GPU-Accelerated Open-Source Suite for Multimodal Brain Data Visualization. Frontiers in neuroinformatics, 13, 14.

Wegrzyn M, et al. (2019) The hidden identity of faces: a case of lifelong prosopagnosia. BMC psychology, 7(1), 4.