

Resource Summary Report

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SurfStat

RRID:SCR_007081

Type: Tool

Proper Citation

SurfStat (RRID:SCR_007081)

Resource Information

URL: <http://www.math.mcgill.ca/keith/surfstat>

Proper Citation: SurfStat (RRID:SCR_007081)

Description: A Matlab toolbox for the statistical analysis of univariate and multivariate surface data using linear mixed effects models and random field theory.

Abbreviations: SurfStat

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

Keywords: afni briq, analyze, linear, matlab, minc, modeling, magnetic resonance, nifti, os independent, regression, statistical operation, pet, random field theory

Availability: Free

Resource Name: SurfStat

Resource ID: SCR_007081

Alternate IDs: nlx_156000

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

Record Creation Time: 20220129T080239+0000

Record Last Update: 20260729T044143+0000

Ratings and Alerts

No rating or validation information has been found for SurfStat.

No alerts have been found for SurfStat.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 250 mentions in open access literature.

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

Kang S, et al. (2025) White matter hyperintensities and cholinergic degeneration as Lewy body disease. *Annals of clinical and translational neurology*, 12(1), 97.

Andrews DS, et al. (2025) Cortical Thickness Differences in Autistic Children With and Without Intellectual Disability. *Autism research : official journal of the International Society for Autism Research*, 18(3), 486.

Zhang M, et al. (2025) Unraveling morphological brain network disparities Parkinsonian tremor from essential tremor: an artificial intelligence approach for clinical differentiation. *NPJ Parkinson's disease*, 11(1), 253.

Kang S, et al. (2025) Brain Perfusion, Atrophy, and Dopaminergic Changes in Amyloid Negative Logopenic Primary Progressive Aphasia. *Scientific reports*, 15(1), 8429.

Jang Y, et al. (2025) Structural connectome manifold changes related to body mass index and their associations with eating psychopathology. *NeuroImage. Clinical*, 47, 103817.

Velicky Buecheler M, et al. (2025) Longitudinal changes in hippocampal morphology before and after temporal lobe epilepsy surgery. *Brain communications*, 7(6), fcaf416.

Biernacki K, et al. (2025) Blunted anterior midcingulate response to reward in opioid users is normalized by prefrontal transcranial magnetic stimulation. *Translational psychiatry*, 15(1), 340.

Wang E, et al. (2025) Structural and functional brain alterations associated with pain in Parkinson's disease. *NPJ Parkinson's disease*, 11(1), 362.

Carbonell F, et al. (2025) Tau-related reduction of glucose metabolism in mild cognitive impairment occurs independently of APOE ϵ 4 genotype and is influenced by A β . *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(2), e14625.

Moodie JE, et al. (2025) Brain maps of general cognitive functioning: neuroimaging and neurobiological signatures. *Translational psychiatry*, 15(1), 461.

Gunasekaran TI, et al. (2024) Genome-wide scan of Flortaucipir PET levels finds JARID2 associated with cerebral tau deposition. *medRxiv : the preprint server for health sciences*.

Xiao D, et al. (2024) Association of cortical morphology, white matter hyperintensity, and glymphatic function in frontotemporal dementia variants. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 20(9), 6045.

Moodie JE, et al. (2024) Brain maps of general cognitive function and spatial correlations with neurobiological cortical profiles. *bioRxiv : the preprint server for biology*.

Hardikar S, et al. (2024) Macro-scale patterns in functional connectivity associated with ongoing thought patterns and dispositional traits. *eLife*, 13.

Kausel L, et al. (2024) Patients recovering from COVID-19 who presented with anosmia during their acute episode have behavioral, functional, and structural brain alterations. *Scientific reports*, 14(1), 19049.

Baranyi G, et al. (2024) Life-course neighbourhood deprivation and brain structure in older adults: the Lothian Birth Cohort 1936. *Molecular psychiatry*, 29(11), 3483.

Garcia-Saldivar P, et al. (2024) White matter structural bases for phase accuracy during tapping synchronization. *eLife*, 13.

Lopez-Vilaret KM, et al. (2024) APOE ϵ 4 and Insulin Resistance Influence Path-Integration-Based Navigation through Distinct Large-Scale Network Mechanisms. *Aging and disease*, 16(5), 3154.

Jin X, et al. (2024) Compensation or Preservation? Different Roles of Functional Lateralization in Speech Perception of Older Non-musicians and Musicians. *Neuroscience bulletin*, 40(12), 1843.

?? Ö, et al. (2024) Gliovascular transcriptional perturbations in Alzheimer's disease reveal molecular mechanisms of blood brain barrier dysfunction. *Nature communications*, 15(1), 4758.