

Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 17, 2026

BSMac

RRID:SCR_009531

Type: Tool

Proper Citation

BSMac (RRID:SCR_009531)

Resource Information

URL: http://web1.sph.emory.edu/bios/CBIS/download_page.php

Proper Citation: BSMac (RRID:SCR_009531)

Description: A statistical and graphical visualization MATLAB toolbox for the analysis of fMRI data, called the Bayesian Spatial Model for activation and connectivity (BSMac). BSMac simultaneously performs whole-brain activation analyses at the voxel and region of interest levels as well as task-related functional connectivity (FC) analyses using a flexible Bayesian modeling framework (Bowman et al., 2008). BSMac allows for inputting data in either Analyze or Nifti file formats. The user provides information pertaining to subgroup memberships, scanning sessions, and experimental tasks (stimuli), from which the design matrix is constructed. BSMac then performs parameter estimation based on MCMC methods and generates plots for activation and FC, such as interactive 2D maps of voxel and region-level task-related changes in neural activity and animated 3D graphics of the FC results.

Abbreviations: BSMac

Synonyms: BSMAC Software, Bayesian Spatial Model for Brain Activation and Connectivity, BSMac: Bayesian Spatial Model for Brain Activation and Connectivity

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

Defining Citation: [PMID:22101143](#), [PMID:17936016](#)

Keywords: computational neuroscience, magnetic resonance, brain activation, connectivity, matlab, statistics, visualization

Availability: Acknowledgement requested, BSD License, GNU Lesser General Public License, GNU General Public License

Resource Name: BSMac

Resource ID: SCR_009531

Alternate IDs: nlx_155706

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

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260912T195713+0000

Ratings and Alerts

No rating or validation information has been found for BSMac.

No alerts have been found for BSMac.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.