

# Resource Summary Report

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## BSMac

RRID:SCR\_009531

Type: Tool

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### Proper Citation

BSMac (RRID:SCR\_009531)

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### Resource Information

**URL:** [http://web1.sph.emory.edu/bios/CBIS/download\\_page.php](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:** 20260821T193847+0000

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## Ratings and Alerts

No rating or validation information has been found for BSMac.

No alerts have been found for BSMac.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.