

# Resource Summary Report

Generated by [ASWG](#) on Aug 2, 2026

## SPHARM-MAT

RRID:SCR\_002545

Type: Tool

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### Proper Citation

SPHARM-MAT (RRID:SCR\_002545)

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### Resource Information

**URL:** <http://imaging.indyrad.iupui.edu/projects/SPHARM/>

**Proper Citation:** SPHARM-MAT (RRID:SCR\_002545)

**Description:** A matlab-based 3D shape modeling and analysis toolkit, and is designed to aid statistical shape analysis for identifying morphometric changes in 3D structures of interest related to different conditions. SPHARM-MAT is implemented based on a powerful 3D Fourier surface representation method called SPHARM, which creates parametric surface models using spherical harmonics.

**Abbreviations:** SPHARM-MAT

**Resource Type:** software resource, software application, software toolkit

**Keywords:** analyze, c, matlab, microsoft, morphology, magnetic resonance, nifti, posix/unix-like, quantification, quantitative shape analysis, shape analysis, shape decomposition, spherical harmonics, surface analysis, win32 (ms windows), windows, parametric surface model, spherical harmonics, 3d, shape modeling, analysis, morphometry

**Funding:** NIBIB R03EB008674-01

**Availability:** Free, Available for download, Freely available

**Resource Name:** SPHARM-MAT

**Resource ID:** SCR\_002545

**Alternate IDs:** nlx\_155952

**Alternate URLs:** <http://www.nitrc.org/projects/spharm-mat>

**License:** GNU General Public License

**Record Creation Time:** 20220129T080214+0000

**Record Last Update:** 20260801T191045+0000

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## Ratings and Alerts

No rating or validation information has been found for SPHARM-MAT.

No alerts have been found for SPHARM-MAT.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 2 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [ASWG](#) .

Wu J, et al. (2021) Radiological tumor classification across imaging modality and histology. Nature machine intelligence, 3, 787.

Ruan X, et al. (2019) Evaluation of methods for generative modeling of cell and nuclear shape. Bioinformatics (Oxford, England), 35(14), 2475.