

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

Elastica2D

RRID:SCR_015858

Type: Tool

Proper Citation

Elastica2D (RRID:SCR_015858)

Resource Information

URL: <https://nxr.northwestern.edu/digital-rat>

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Description: Software for a 2D elastic beam model that can be used to model quasistatic bending of the vibrissa to compute forces and bending moments at the base. Elastica2D is part of the Digital Rat software project that aims to enable morphologically and mechanically accurate modelling of the rat head and vibrissal (whisker) array.

Resource Type: data processing software, model, data visualization software, software resource, data or information resource, software application

Defining Citation: [PMID:22298834](#)

Keywords: matlab, quasistatic bending, vibrissa, 2d model, elastic, elastic beam, mechanical model

Funding: National Science Foundation 0446391;
National Science Foundation 0818414;
National Science Foundation 0846088

Availability: Free, Available for download

Resource Name: Elastica2D

Resource ID: SCR_015858

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Record Creation Time: 20220129T080327+0000

Record Last Update: 20260731T042957+0000

Ratings and Alerts

No rating or validation information has been found for Elastica2D.

No alerts have been found for Elastica2D.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Isett BR, et al. (2018) Slip-Based Coding of Local Shape and Texture in Mouse S1. Neuron, 97(2), 418.