

Resource Summary Report

Generated by PRECISE-TBI on Aug 2, 2026

DeepLabCut Project

RRID:SCR_021398

Type: Tool

Proper Citation

DeepLabCut Project (RRID:SCR_021398)

Resource Information

URL: <https://edspace.american.edu/openbehavior/project/deeplabcut/>

Proper Citation: DeepLabCut Project (RRID:SCR_021398)

Description: Project for markerless pose estimation of user defined body parts with deep learning.

Resource Type: portal, data or information resource, project portal

Defining Citation: [DOI:10.1038/s41593-018-0209-y](https://doi.org/10.1038/s41593-018-0209-y)

Keywords: OpenBehavior, animal pose estimation, markerless pose estimation, body parts, multi-animal pose estimation, B-SolD, Stytra, Kinemouse Wheel

Availability: Free, Available for download, Freely Available

Resource Name: DeepLabCut Project

Resource ID: SCR_021398

Alternate URLs: <https://github.com/DeepLabCut/DeepLabCut>

License: GNU Lesser General Public License v3.0

Record Creation Time: 20221210T050148+0000

Record Last Update: 20260801T190851+0000

Ratings and Alerts

No rating or validation information has been found for DeepLabCut Project.

No alerts have been found for DeepLabCut Project.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 56 mentions in open access literature.

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

Gilbert MB, et al. (2025) Neuropeptides specify and reprogram division of labor in the leafcutter ant *Atta cephalotes*. *Cell*, 188(15), 3974.

Visser J, et al. (2024) Astroglial networks control visual responses of superior collicular neurons and sensory-motor behavior. *Cell reports*, 43(7), 114504.

Elleman AV, et al. (2024) Behavioral control through the direct, focal silencing of neuronal activity. *Cell chemical biology*, 31(7), 1324.

Accanto N, et al. (2023) A flexible two-photon fiberscope for fast activity imaging and precise optogenetic photostimulation of neurons in freely moving mice. *Neuron*, 111(2), 176.

Zhao Z, et al. (2023) Ultraflexible electrode arrays for months-long high-density electrophysiological mapping of thousands of neurons in rodents. *Nature biomedical engineering*, 7(4), 520.

Berg EM, et al. (2023) Brainstem circuits encoding start, speed, and duration of swimming in adult zebrafish. *Neuron*, 111(3), 372.

Schneider A, et al. (2022) 3D pose estimation enables virtual head fixation in freely moving rats. *Neuron*, 110(13), 2080.

Baleisyte A, et al. (2022) Stimulation of medial amygdala GABA neurons with kinetically different channelrhodopsins yields opposite behavioral outcomes. *Cell reports*, 39(8), 110850.

Nunez-Elizalde AO, et al. (2022) Neural correlates of blood flow measured by ultrasound. *Neuron*, 110(10), 1631.

Kaiser FMP, et al. (2022) Biallelic PAX5 mutations cause hypogammaglobulinemia, sensorimotor deficits, and autism spectrum disorder. *The Journal of experimental medicine*, 219(9).

Keshavarzi S, et al. (2022) Multisensory coding of angular head velocity in the retrosplenial cortex. *Neuron*, 110(3), 532.

Broom E, et al. (2022) Recruitment of frontal sensory circuits during visual discrimination. *Cell reports*, 39(10), 110932.

Zong W, et al. (2022) Large-scale two-photon calcium imaging in freely moving mice. *Cell*, 185(7), 1240.

Zhang Y, et al. (2022) Detailed mapping of behavior reveals the formation of prelimbic neural ensembles across operant learning. *Neuron*, 110(4), 674.

Gachomba MJM, et al. (2022) Multimodal cues displayed by submissive rats promote prosocial choices by dominants. *Current biology : CB*, 32(15), 3288.

Rodrigues D, et al. (2022) Chronic stress causes striatal disinhibition mediated by SOM-interneurons in male mice. *Nature communications*, 13(1), 7355.

Lauer J, et al. (2022) Multi-animal pose estimation, identification and tracking with DeepLabCut. *Nature methods*, 19(4), 496.

Currie SP, et al. (2022) Movement-specific signaling is differentially distributed across motor cortex layer 5 projection neuron classes. *Cell reports*, 39(6), 110801.

Mazuski C, et al. (2022) Representation of ethological events by basolateral amygdala neurons. *Cell reports*, 39(10), 110921.

Nestvogel DB, et al. (2022) Visual thalamocortical mechanisms of waking state-dependent activity and alpha oscillations. *Neuron*, 110(1), 120.