

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 8, 2026

Variational Embedding of Animal Motion

RRID:SCR_022477

Type: Tool

Proper Citation

Variational Embedding of Animal Motion (RRID:SCR_022477)

Resource Information

URL: <https://github.com/LINCellularNeuroscience/VAME>

Proper Citation: Variational Embedding of Animal Motion (RRID:SCR_022477)

Description: Software Python tool to cluster behavioral signals obtained from pose estimation tools. Unsupervised probabilistic deep learning framework capable of finding behavioral motifs in pose estimation data. Capable of augmenting quantitative behavioral analyses of data derived from standard pose-estimation software packages. Written based on core functions from DeepLabCut, and readily works with pose data from that package. Can also work with data from other pose estimation packages such as SLEAP.

Abbreviations: VAME

Synonyms: Variational Animal Motion Embedding, VAME: Variational Embedding of Animal Motion

Resource Type: data processing software, data visualization software, software application, software resource

Keywords: OpenBehavior, vame, variational embedding of animal motion, pytorch, pose estimation

Availability: Free, Available for download, Freely available

Resource Name: Variational Embedding of Animal Motion

Resource ID: SCR_022477

Alternate URLs: <https://edspace.american.edu/openbehavior/project/vame/>

License: GNU General Public License v3.0

Record Creation Time: 20220610T050158+0000

Record Last Update: 20260905T133014+0000

Ratings and Alerts

No rating or validation information has been found for Variational Embedding of Animal Motion.

No alerts have been found for Variational Embedding of Animal Motion.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Rivet-Noor CR, et al. (2024) Stress-induced mucin 13 reductions drive intestinal microbiome shifts and despair behaviors. Brain, behavior, and immunity, 119, 665.

Dedek C, et al. (2023) Reproducible and fully automated testing of nocifensive behavior in mice. Cell reports methods, 3(12), 100650.

Luxem K, et al. (2022) Identifying behavioral structure from deep variational embeddings of animal motion. Communications biology, 5(1), 1267.