Resource Summary Report

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Keypoint MoSeq

RRID:SCR_025032
Type: Tool

Proper Citation

Keypoint MoSeq (RRID:SCR_025032)

Resource Information

URL: https://github.com/dattalab/keypoint-moseq

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Description: Software application as machine learning-based platform for identifying behavioral modules from keypoint data without human supervision. Package provides tools for fitting MoSeq model to keypoint tracking data. Used to infer pose dynamics with keypoint data in addition to behavioral syllables.

Resource Type: software resource, source code

Defining Citation: DOI:10.1101/2023.03.16.532307

Keywords: OpenBehavior, infer pose dynamics, keypoint data, identifying behavioral modules, keypoint tracking data, parsing behavior, linking point tracking to pose dynamics,

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NIA RF1AG073625;
NINDS F31NS113385;
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Salk Collaboration Grant ;
Simons Collaboration on Plasticity and the Aging Brain ;
Simons Collaboration on the Global Brain ;
Simons Foundation Autism Research Initiative

Availability: Free, Available for download, Freely available

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License URLs: https://github.com/dattalab/keypoint-moseq/blob/main/LICENSE.md

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Ratings and Alerts

No rating or validation information has been found for Keypoint MoSeq.

No alerts have been found for Keypoint MoSeq.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 12 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Yamanouchi HM, et al. (2026) YORU: Animal behavior detection with object-based approach for real-time closed-loop feedback. Science advances, 12(7), eadw2109.

Davis MN, et al. (2026) Parvalbumin Neuron-Targeted Loss of Alzheimer's Disease Risk Gene BIN1 Is Insufficient to Drive Cognitive or Network Excitability Changes. eNeuro, 13(3).

Aparicio F, et al. (2026) Conserved role of primary motor cortex in the control of prehension in mice and macaques. Cell reports, 45(6), 117419.

Lee JH, et al. (2025) Processing reliant on granule cells is essential for motor learning but dispensable for social preference and numerous other cerebellar-dependent behaviors. Nature communications, 16(1), 6101.

Berezhnoi D, et al. (2025) Subsecond Analysis of Locomotor Activity in Parkinsonian Mice. eNeuro, 12(8).

Weinreb C, et al. (2024) Keypoint-MoSeq: parsing behavior by linking point tracking to pose dynamics. Nature methods, 21(7), 1329.

Hochbaum DR, et al. (2024) Thyroid hormone remodels cortex to coordinate body-wide metabolism and exploration. Cell, 187(20), 5679.

Dwivedi D, et al. (2024) Metabotropic signaling within somatostatin interneurons controls transient thalamocortical inputs during development. Nature communications, 15(1), 5421.

Miller SR, et al. (2024) Machine learning reveals prominent spontaneous behavioral changes and treatment efficacy in humanized and transgenic Alzheimer's disease models.

Cell reports, 43(11), 114870.

Berezhnoi D, et al. (2024) Sub-second characterization of locomotor activities of mouse models of Parkinsonism. bioRxiv : the preprint server for biology.

Markowitz JE, et al. (2023) Spontaneous behaviour is structured by reinforcement without explicit reward. Nature, 614(7946), 108.

Rudolph S, et al. (2020) Cerebellum-Specific Deletion of the GABAA Receptor ?? Subunit Leads to Sex-Specific Disruption of Behavior. Cell reports, 33(5), 108338.