

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: source code, software resource

Defining Citation: [DOI:10.1101/2023.03.16.532307](https://doi.org/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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Simons Collaboration on the Global Brain ;
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NINDS F31NS122155;
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Availability: Free, Available for download, Freely available

Resource Name: Keypoint MoSeq

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

Record Creation Time: 20240305T200904+0000

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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 9 mentions in open access literature.

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

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.