

Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

PHATE

RRID:SCR_027119

Type: Tool

Proper Citation

PHATE (RRID:SCR_027119)

Resource Information

URL: <https://github.com/KrishnaswamyLab/PHATE>

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Description: Software tool for visualizing high dimensional data using novel conceptual framework for learning and visualizing manifold to preserve both local and global distances.

Synonyms: Potential of Heat-diffusion for Affinity-based Transition Embedding

Resource Type: software resource, 3d visualization software, software application, source code, data visualization software, data processing software

Defining Citation: [PMID:31796933](https://pubmed.ncbi.nlm.nih.gov/31796933/)

Keywords: visualizing high dimensional data, high dimensional data,

Funding: NICHD F31HD097958;
NHGRI 1R01HG008383;
NSF ;
NIGMS R01GM107092;
NIGMS R01GM130847

Availability: Free, Available for download, Freely available,

Resource Name: PHATE

Resource ID: SCR_027119

License URLs: <https://github.com/KrishnaswamyLab/PHATE?tab=License-1-ov-file#readme>

Record Creation Time: 20250701T055345+0000

Record Last Update: 20260808T190806+0000

Ratings and Alerts

No rating or validation information has been found for PHATE.

No alerts have been found for PHATE.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Ralston CQ, et al. (2026) Comparative single-cell atlases reveal injury-driven tubal epithelial regeneration as a window for ovarian carcinoma initiation. bioRxiv : the preprint server for biology.

Yim KM, et al. (2025) Cell-type-specific dysregulation of gene expression due to Chd8 haploinsufficiency during mouse cortical development. Cell genomics, 100986.

Youlten SE, et al. (2025) In vivo differentiation of embryonic cells devoid of key reprogramming factors. Cell reports, 44(11), 116498.

Chen Z, et al. (2023) RobustTree: An adaptive, robust PCA algorithm for embedded tree structure recovery from single-cell sequencing data. Frontiers in genetics, 14, 1110899.

Winkler L, et al. (2023) A Score-Based Approach for Training Schrödinger Bridges for Data Modelling. Entropy (Basel, Switzerland), 25(2).