

Resource Summary Report

Generated by [RRID](#) on Aug 12, 2026

Thunder

RRID:SCR_016556

Type: Tool

Proper Citation

Thunder (RRID:SCR_016556)

Resource Information

URL: <http://thunder-project.org/>

Proper Citation: Thunder (RRID:SCR_016556)

Description: Software package for the analysis of image and time series data in Python. Provides data structures and algorithms for loading, processing, and analyzing these data. Runs locally or against a Spark cluster with an identical API.

Resource Type: data analysis software, software application, image analysis software, software resource, data processing software

Availability: Free, Available for download, Freely available, Tutorial available

Resource Name: Thunder

Resource ID: SCR_016556

Alternate URLs: <https://github.com/thunder-project/thunder>

License: MIT

Record Creation Time: 20220129T080331+0000

Record Last Update: 20260812T044321+0000

Ratings and Alerts

No rating or validation information has been found for Thunder.

No alerts have been found for Thunder.

Data and Source Information

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Ran Q, et al. (2026) Integrating MACSPI and SILAC for Neuron Type-specific Proteomics in *Caenorhabditis elegans*. *Molecular & cellular proteomics : MCP*, 25(4), 101545.

Boch?? A, et al. (2025) Phenomics Demonstrates Cytokines Additive Induction of Epithelial to Mesenchymal Transition. *Journal of cellular physiology*, 240(1), e31491.

Metz F, et al. (2025) Functional and intricate interaction network connecting *Helicobacter pylori* Cag type 4 secretion system surface proteins with outer membrane proteins HopQ and HopZ. *microLife*, 6, uqaf027.

Read E, et al. (2024) Bi-directional signaling between the intestinal epithelium and type-3 innate lymphoid cells regulates secretory dynamics and interleukin-22. *Mucosal immunology*, 17(1), 1.

Rowland B, et al. (2022) THUNDER: A reference-free deconvolution method to infer cell type proportions from bulk Hi-C data. *PLoS genetics*, 18(3), e1010102.

Yang E, et al. (2022) A brainstem integrator for self-location memory and positional homeostasis in zebrafish. *Cell*, 185(26), 5011.

Sheikhan NY, et al. (2021) Evaluating the effectiveness of the Family Connections program for caregivers of youth with mental health challenges, part II: A qualitative analysis. *Health expectations : an international journal of public participation in health care and health policy*, 24(2), 709.

Morimoto MM, et al. (2020) Spatial readout of visual looming in the central brain of *Drosophila*. *eLife*, 9.

Ozzoude M, et al. (2020) Cortical Thickness Estimation in Individuals With Cerebral Small Vessel Disease, Focal Atrophy, and Chronic Stroke Lesions. *Frontiers in neuroscience*, 14, 598868.

Kerlin A, et al. (2019) Functional clustering of dendritic activity during decision-making. *eLife*, 8.