

Resource Summary Report

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PyReconstruct

RRID:SCR_027562

Type: Tool

Proper Citation

PyReconstruct (RRID:SCR_027562)

Resource Information

URL: <https://github.com/SynapseWeb/PyReconstruct>

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Description: Software successor to the Reconstruct annotation tool. PyReconstruct runs on all major operating systems, breaks through legacy RAM limitations, features intuitive and collaborative curation system, and employs flexible and dynamic approach to image registration. Used to analyze, display, and publish experimental or connectomics data. Suited for generating ground truth to implement in automated segmentation, outcomes of which can be returned to PyReconstruct for proofreading and quality control.

Resource Type: software application, software resource, source code

Defining Citation: [PMID:40737319](#)

Keywords: analyze, display, publish, experimental data, connectomics data,

Funding: NIMH R56MH139176;
NSF

Availability: Free, Available for download, Freely available

Resource Name: PyReconstruct

Resource ID: SCR_027562

Record Creation Time: 20251017T060948+0000

Record Last Update: 20260919T200113+0000

Ratings and Alerts

No rating or validation information has been found for PyReconstruct.

No alerts have been found for PyReconstruct.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Chirillo MA, et al. (2025) PyReconstruct: A fully open-source, collaborative successor to Reconstruct. Proceedings of the National Academy of Sciences of the United States of America, 122(31), e2505822122.

Kuwajima M, et al. (2025) Synaptopodin KO rat for assessing the dendritic spine apparatus and axonal cisternal organelle in synaptic plasticity, development, and behavior. bioRxiv : the preprint server for biology.