

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 8, 2026

pyPhotometry

RRID:SCR_022940

Type: Tool

Proper Citation

pyPhotometry (RRID:SCR_022940)

Resource Information

URL: <https://edspace.american.edu/openbehavior/?s=pyPhotometry>

Proper Citation: pyPhotometry (RRID:SCR_022940)

Description: Open source Python based hardware and software for fiber photometry data acquisition. System includes compact, low cost, data acquisition board built around Micropython microcontroller, and cross platform graphical user interface for controlling acquisition and visualising signals. Can acquire two analog and two digital signals, and control two external LEDs via built in LED drivers. Time division multiplexed illumination allows independent readout of fluorescence evoked by different excitation wavelengths from single photoreceiver signal.

Resource Type: data or information resource, instrument resource, portal, project portal

Defining Citation: [PMID:30837543](#)

Keywords: OpenBehavior, instrument, fiber photometry, Micropython microcontroller, analog control signals, data acquisition and analysis

Availability: Free, Available for download, Freely available

Resource Name: pyPhotometry

Resource ID: SCR_022940

Alternate URLs: <https://github.com/pyPhotometry>

Record Creation Time: 20221104T050213+0000

Record Last Update: 20260905T133017+0000

Ratings and Alerts

No rating or validation information has been found for pyPhotometry.

No alerts have been found for pyPhotometry.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Walker SJ, et al. (2026) A hypothalamic circuit for anticipating future changes in energy balance. Neuron.

Floeder JR, et al. (2025) Mesolimbic dopamine ramps reflect environmental timescales. eLife, 13.

Avvisati R, et al. (2024) Distributional coding of associative learning in discrete populations of midbrain dopamine neurons. Cell reports, 43(4), 114080.

Formozov A, et al. (2023) A flexible and versatile system for multi-color fiber photometry and optogenetic manipulation. Cell reports methods, 3(3), 100418.