

Resource Summary Report

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Pattern Component Modelling Toolbox

RRID:SCR_015891

Type: Tool

Proper Citation

Pattern Component Modelling Toolbox (RRID:SCR_015891)

Resource Information

URL: https://github.com/jdiedrichsen/pcm_toolbox

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Description: Software for a Bayesian approach for evaluating representational models that specify how complex patterns of neural activity relate to visual stimuli, motor actions, or abstract thoughts. PCM evaluates the ability of models to predict novel brain activity patterns and integrates over all possible activity profiles and computes the marginal likelihood of the data under the activity profile distribution specified by the representational model.

Abbreviations: PCM

Synonyms: Pattern component modeling (PCM), PCM Toolbox, Pattern Component Modeling toolbox for multivariate analysis

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

Defining Citation: [PMID:28843540](#)

Keywords: bayesian, representational, model, motor, abstract, visual, encoding, neural, imaging, activity, pattern, analysis, voxel

Funding: James McDonnell Foundation ;
JSPS 15J03233;
NSERC RGPIN-2016-04890

Availability: Free, Available for download

Resource Name: Pattern Component Modelling Toolbox

Resource ID: SCR_015891

Record Creation Time: 20220129T080328+0000

Record Last Update: 20260912T195832+0000

Ratings and Alerts

No rating or validation information has been found for Pattern Component Modelling Toolbox.

No alerts have been found for Pattern Component Modelling Toolbox.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Aller M, et al. (2022) Audiovisual adaptation is expressed in spatial and decisional codes. Nature communications, 13(1), 3924.

Yokoi A, et al. (2019) Neural Organization of Hierarchical Motor Sequence Representations in the Human Neocortex. Neuron, 103(6), 1178.

Yokoi A, et al. (2018) The Role of Human Primary Motor Cortex in the Production of Skilled Finger Sequences. The Journal of neuroscience : the official journal of the Society for Neuroscience, 38(6), 1430.