

Resource Summary Report

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University of California at Berkeley: The Neural Prediction Challenge

RRID:SCR_001920

Type: Tool

Proper Citation

University of California at Berkeley: The Neural Prediction Challenge (RRID:SCR_001920)

Resource Information

URL: <http://neuralprediction.berkeley.edu/>

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Description: The aim of the Neural Prediction Challenge is to accelerate the development of predictive models and to provide computational neuroscientists an opportunity to test their models objectively. The challenge is really quite simple: you will be given some (visual and/or auditory) stimuli and corresponding neural responses, and you must try to predict responses to other stimuli. Each data set will be divided in to two subsets: a fit set (90% of the data) that includes both the stimuli and the corresponding neuronal responses; and a validation set (10% of the data) that includes only stimuli (no responses). Your job is to use the fit set to fit your model and then to generate predicted responses based on the stimuli provided in the validation set. Once you have the predictions you should return them to us. We will compare your predicted responses to the responses actually observed in the validation set. Current data consist of recordings from visual and auditory neurons during naturalistic stimulation. Data are provided in simple ascii files that are easily readable in Matlab (or by any other modern programming language). Details on data formatting are provided with each data set. Predictions will be evaluated continuously as they are received and results will be posted in aggregate form. Individuals' names, prediction scores and models will not be posted without prior permission (though we may contact participants directly, see official rules). Please note that this is an academic research project, it is not a traditional contest. There is no real ending date, and there is nothing to win. Sponsors: This project is supported by the NIH Human Brain Project.

Synonyms: UCB Neural Challenge

Resource Type: data or information resource, portal, topical portal

Keywords: auditory stimulus, challenge, computational neuroscientist, development, neural, neuron, neuronal, predictive model, response, visual stimulus

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: University of California at Berkeley: The Neural Prediction Challenge

Resource ID: SCR_001920

Alternate IDs: nif-0000-10490

Record Creation Time: 20220129T080210+0000

Record Last Update: 20260815T182206+0000

Ratings and Alerts

No rating or validation information has been found for University of California at Berkeley: The Neural Prediction Challenge.

No alerts have been found for University of California at Berkeley: The Neural Prediction Challenge.

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 [RRID](#) .

Thorson IL, et al. (2015) The Essential Complexity of Auditory Receptive Fields. PLoS computational biology, 11(12), e1004628.

Jolivet R, et al. (2008) A benchmark test for a quantitative assessment of simple neuron models. Journal of neuroscience methods, 169(2), 417.