frontiers | Frontiers in Neuroinformatics

TYPE Erratum
PUBLISHED 16 April 2024
DOI 10.3389/fninf.2024.1408064

OPEN ACCESS

APPROVED BY
Frontiers Editorial Office,
Frontiers Media SA, Switzerland

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RECEIVED 27 March 2024
ACCEPTED 27 March 2024
PUBLISHED 16 April 2024

CITATION
Frontiers Production Office (2024) Erratum: NeuroDecodeR: a package for neural decoding in R.
Front. Neuroinform. 18:1408064.
doi: 10.3389/fninf.2024.1408064

Erratum: NeuroDecodeR: a package for neural decoding in R

Frontiers Production Office*

Frontiers Media SA, Lausanne, Switzerland

KEYWORDS

neural decoding, readout, multivariate pattern analysis, R, data analysis, statistics, machine learning, data science

An Erratum on
NeuroDecodeR: a package for neural decoding in R

by Meyers, E. M. (2024). *Front. Neuroinform.* 17:1275903. doi: 10.3389/fninf.2023.1275903

Due to a production error, the code phrase "cl_max_correlation" was incorrectly written as "cl:max_correlation" on four occasions in the online webpage version of this article.

A correction has been made to the section **Decoding analysis 1: decoding face identity using left profile images**, subsection **Running the decoding analysis**, paragraph 2:

"3. cl_max_correlation classifier to make our predictions."

A correction has been made to the section **Decoding analysis 1: decoding face identity using left profile images**, subsection **Running the decoding analysis**, paragraph 3:

"ds <- ds_basic(binned_data="FV_AM_30bins_10
sampled.Rda",
labels= "orient_person_combo",
num_cv_splits=3,
label_levels=left_profile_levels,
site_IDs_to_use=sites_to_use)
fps <- list(fp_zscore())
cl <- cl_max_correlation()
rms <- list(rm_main_results(), rm_confusion_matrix())
cv <- cv_standard(datasource=ds, classifier=cl, feature_preprocessors=fps, result_metrics=rms)"

A correction has been made to the section **Decoding analysis 2: testing generalization across head orientations**, paragraph 5:

"fps <- list(fp_zscore())
cl <- cl_max_correlation()
rms <- list(rm_main_results())
cv <- cv_standard(datasource=ds,
classifier=cl,
feature_preprocessors=fps,
result_metrics=rms,
run_TCD=FALSE)
DECODING_RESULTS <- run_decoding(cv)
log_save_results(DECODING_RESULTS,
save_directory_name= "results",

result_name= "Train left profile, test
right profile")"

A correction has been made to the section **Decoding analysis 2: testing generalization across head orientations**, subsection **Piping together NeuroDecodeR objects**, paragraph 2:

""FV_AM_30bins_10sampled.Rda" |>
ds_basic(labels= "orient_person_combo",
num_cv_splits=3,
label_levels=right_profile_levels,
site_IDs_to_use=sites_to_use) |>
fp_zscore() |>
cl_max_correlation() |>
rm_main_results() |>
rm_confusion_matrix() |>
cv_standard(run_TCD=FALSE) |>
run_decoding() |>
log_save_results(save_directory_
name= "results",
result_name="Right profile face
decoding")
result_names <- c(result_names, "Right profile
face decoding")
plot_main_results(results_dir_name= "results",
result_names)"

The publisher apologizes for this mistake. The original article has been updated.