1. ABOUT THE DATASET

--------------------

Title: EEG camouflage project

Key words: camouflage, EEG, edge disruption, attention

Creator(s): Jac Billington (also known as Jaclyn)

Organisation(s): University of Leeds

Rights-holder(s): Jac Billington

Publication Year: 2023

Description: This data set contains behavioural and EEG output data from one experiment. It also includes pre-processing and analysis scripts, scripts used for running the experiment.

Cite as: Billington (2023): University of Leeds. [Dataset] [https://doi.org/10.5518/1354](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdoi.org%2F10.5518%2F1354&data=05%7C01%7CJ.Billington%40leeds.ac.uk%7Ca9436273f569445ebf9c08db8f624c53%7Cbdeaeda8c81d45ce863e5232a535b7cb%7C1%7C0%7C638261424582723929%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=yp7pMtNaSXgFBykVXxEkumwinN9Hl580nPCCbZlXnF4%3D&reserved=0)

Related publication: Intended to Proceedings of the Royal Society B August 2023. Data upload required before article submission.

Contact: j.billington@leeds.ac.uk

2. TERMS OF USE

---------------

Copyright 2023 Jac Billington.

3. PROJECT AND FUNDING INFORMATION

----------------------------------

Title: EEG camouflage project

Dates: 2019-2021

Funding organisation: Leverhulme Trust Fellowship funding

Grant no.: RF-2019-343

4. CONTENTS

-----------

Folder listings

**raw\_data:** Folder contains raw data collected from the BioSemi EEG lab system in the School of Psychology, University of Leeds. This data has undergone no preprocessing. Data was collected from 21 participants, 18 were used for publication write up.

Further details can be found in raw\_data/ rawdata\_readme.text

**preprocessing\_pipeline:** this folder contains the matlab\* .m files used to preprocess the data prior to result extraction using EEGlab\*

Further details can be found in Preprocessing\_pipeline / READ\_ME\_preprocessing\_pipeline.txt

**processed\_data:** This file contains processed data for 18 participants (undergone pipeline analysis above). These files are in a format suitable for analysis in fieldtrip\*.

Further details can be found in processed\_data/read\_me\_processed\_data.txt

**EEG\_camouflage\_experiment-main:** This contains the code for running the experiment using Psychtoolbox on Matlab and experimental stimulus. This is not a data folder.

Further details can be found in **EEG\_camouflage\_experiment-main**/ READ\_ME\_experiment.txt

**EdgeDis\_calc\_demo-main:** This folder contains a demo for calculating the parameter EdgeDis – discussed in publication - using Matlab\*

Further details can be found in EdgeDis\_calc\_demo-main/ READ\_ME\_edgedis.txt

**Submission2\_ProceedingsB\_june2024:** The folder contains the intended submission to Proceedings of the Royal Society B at the time of committing the data set (/PrdSoc2024-rcode-main. It also contains the Rproject\* for final data analysis, cross referenced with the submission.

5. METHODS

----------

Data was collected using an EEGbiosemi machine at the School of Psychology, University of Leeds, UK. All data were collected by Jac Billington. The data set contains both electrophysiological responses from the human brain and behavioural responses to the task. Experimental detail can be found in the draft article .pdfs in Submission1\_ProceedingsB\_august2023.

\*Exact release/ version details of all softwares mentioned above can be found in Submission1\_ProceedingsB\_august2023/ProcSoc\_supplementary\_v1 Supplementary 1.