

## Workshop: EOG processing

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## Overview

This workshop provides hands-on experience with electrooculography (EOG).

Students will go through computer code to process EOG data and extract relevant information about oculomotor behavior.

## Learning outcomes

By the end of this workshop, students will be able to:

- Preprocess EOG data using MATLAB.
- Extract key oculomotor parameters from EOG signals.
- Interpret EOG data in the context of psychophysiological research.

## Requirements

1. **MATLAB** The computer code is written in MATLAB (<https://en.wikipedia.org/wiki/MATLAB>), a programming language often used for numerical computations in psychophysiology. To run MATLAB code you will need to use MATLAB software.

2. **“Quiet Eye EOG” for MATLAB** This function will be used to extract an oculomotor parameter called “Quiet Eye” from EOG data. <https://github.com/GermanoGallicchio/Quiet-Eye-EOG>
3. **Scripts** Scripts from the “Learn Psychophysiology” repository: <https://github.com/GermanoGallicchio/LearnPsychophysiology>
4. **Data** Hosted on an Open Science Framework (OSF) link: <https://osf.io/k4ytm/files/vkwcu>

Make sure you have installed all the required software and downloaded the scripts and data before starting the workshop.

## Workshop structure

The workshop is designed to be interactive, with students following along with the provided MATLAB scripts and data.

For this session, we will use this script:

pp02\_EOG.m

Let's switch to MATLAB and start working on the code.