%% EEG Preprocessing Pipeline for Control and Experimental Datasets

cfg = config();

savePath = cfg.savePath;

controlFolder = fullfile(savePath, 'Processed Control');

experimentalFolder = fullfile(savePath, 'Processed ADHD');

% Ensure save directories exist

if ~exist(controlFolder, 'dir'), mkdir(controlFolder); end

if ~exist(experimentalFolder, 'dir'), mkdir(experimentalFolder); end

[ALLEEG, EEG, CURRENTSET, ALLCOM] = eeglab('nogui');

% --- Process Experimental Group ---

processGroup(cfg.basePathADHD, experimentalFolder);

% --- Process Control Group ---

processGroup(cfg.basePathControl, controlFolder);

%% Sub-function: Process each group

function processGroup(basePath, savePath)

files = dir(fullfile(basePath, '\*.mat'));

for fileIdx = 1:length(files)

inputFile = fullfile(basePath, files(fileIdx).name);

preprocess\_single\_dataset(inputFile, savePath)

end

end