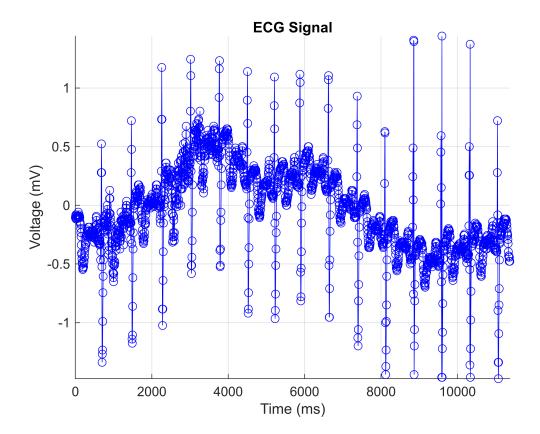
## %B11102112 李家睿

load wecg.mat

```
fs = 180; % Define the sampling frequency
t = (0:length(wecg)-1)/fs; % Time vector
t_ms = t * 1000; % Convert the time vector `t` to milliseconds
% Create a new figure window for plotting.
figure;
handle.fig1 = gcf; % Get the current figure
handle.axes1 = axes('parent', handle.fig1); % Set up axes in the figure
% Create the ECG plot line
handle.line1 = line('parent', handle.axes1);
% Set plot labels, title, and grid
xlabel('Time (ms)');
ylabel('Voltage (mV)');
title('ECG Signal');
grid on;
xlim([min(t_ms) max(t_ms)]); % Set x-axis limits based on the time vector
ylim([min(wecg) max(wecg)]); % Set y-axis limits based on the ECG signal
% Animate the plot
for i = 1:length(wecg)
    % Update the line data for the ECG signal
    set(handle.line1, 'XData', t_ms(1:i), 'YData', wecg(1:i), 'Color', 'b',
'Marker', 'o', 'LineStyle', '-');
    % Pause to control the speed of the animation
    pause(0.01); % Adjust the pause value to control animation speed
    drawnow; % Update the figure window
end
```



%Today's lab is quite interesting and fun