Fit a spline or a functiojn to the line and then derivative of that function

Whatever I fit it needs to be something that a derivative can be applied

Derivative is the slope at every moment the whole way through

Capture all without the small scale noises

Superior a grado 2

Temp at which the rate changes Ctmax

Maximim rate of ox consumption (1st deriv) Ropt DONE

Temp of the max rate (Topt) DONE

Activation energy: regressing from the start of ramp to topt

Arrhenius temp dependance of rates uover the rising portion. Log of this equation gets a straight line, and get a linear regression and the slope of that line is the activation evergy

How much energy requires the system to activate.

Look at Tony Dells paper PNAS

Estimates of error:

Make all plots have the same scale DONE

Make first derivative positive DONE

Trim traces and remove parts where the oxygen increases instead of decreases DONE

Check for effect of day and maybe correct for the gross mean if there is a day effect

Adjust polynomial of 10 degrees and compare to the 7 degrees DONE