Information

File Selection

File Path: mySamplePoints.xlsx [Select]

X-axis: my_x Max(X-axis): 100

☐ Normalise X-axis depending on the maximum x.

Y-axis: my_y [Load]

Model Selection

Curve Model: Hill Function (5DoF)

Variability Parameter Selection:

☑ Vx - variability along x-axis (Stimulus Strength).

☑ Vy - variability along y-axis (MEP).

Model Form:

f(x) = p1 + (p2-p1)/(1 + p3/((x-p5)^p4)
p1 - the minimum function value
p2 - the maximum function value
p3 - the scale factor for x
p4 - the exponent
p5 - the shift value for x

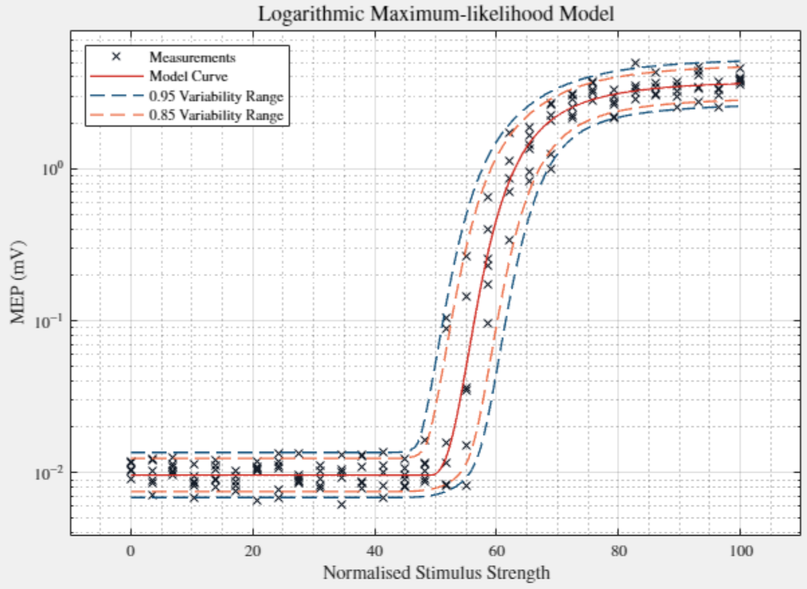
Optimisation Method: Simplex

Maximum Iteration: 1000 Function Tolerance: 1e-06

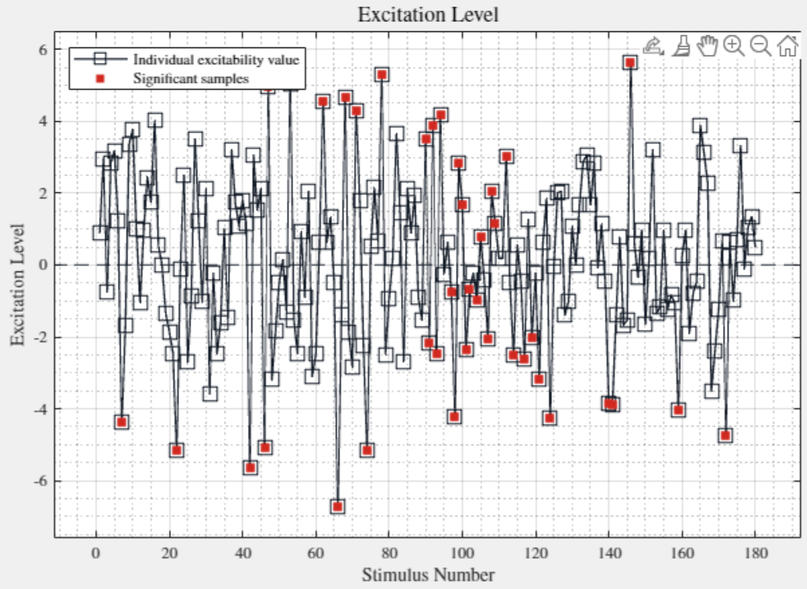
Maximum Evaluation: 7000 Stop Tolerance: 1e-06

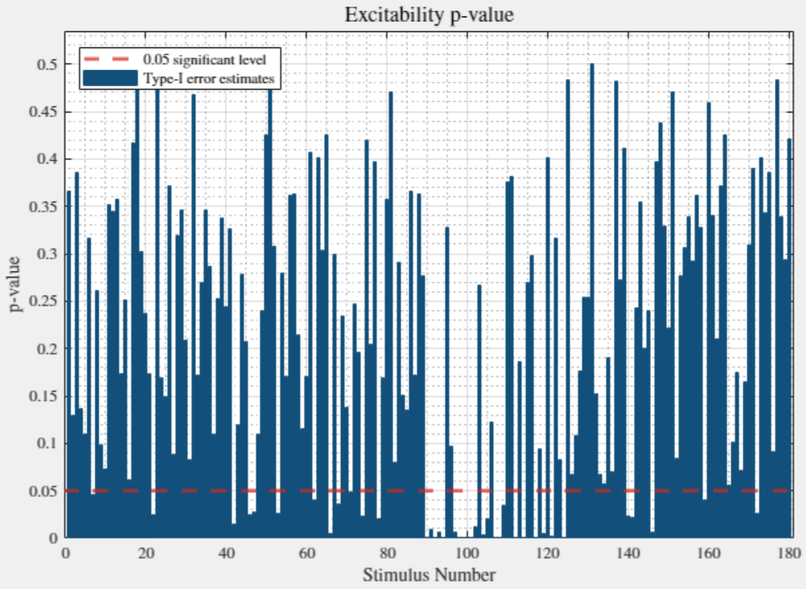
[Run]

Results



Name	Value
Curve Model:	Hill Function (5DoF)
Model Parameter:	[p1, p2, p3, p4, p5, Vy, Vx]
Variability sources:	Vx: 1; Vy: 1.
Database information	
Number of pairs (x, y):	180
X-axis range:	[0, 100]
Y-axis range	[-2.2118, 0.69897]
Optimisation settings	
Optimisation Method:	Simplex
Maximum iteration:	1000
Maximum function evaluation number:	7000
Function tolerance:	1e-06
Stop tolerance:	1e-06
Optimisation results	
Optimimal maximum-likelihood parameters:	[-2.016, 0.584, 301.939, 2.632, 48.966, 0.075, 2.600]





[Save Results]